# **Teramind Rules Guide**

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# **1** About This Guide

This guide explains how to utilize Teramind's behavioral based rules to detect insider threats, protect your organization from malicious or accidental security incidents, prevent data loss or to conform with regulatory compliances. The guide explains rule structures, conditions, logic, data types etc. It shows you the steps for creating a rule, their uses cases, best practices and advanced capabilities.

The guide is designed for the managers, administrators and security personnel who are responsible for configuring and maintaining the Teramind solution in your organization.

# 2 Related Resources

- <u>Teramind User Guide</u> –contains detailed explanation of Teramind's user interface. It's also an excellent reference manual that can help you quickly locate information or show you how to use Teramind on a day to day basis. The Rules Guide contains context sensitive links to relevant sections on the Teramind User Guide where needed.
- <u>Teramind Knowledge Base</u> contains web versions of the Rules Guide, User Guide, How-To Articles, Deployment Guides, FAQ and other resources.
- Guided Tour Teramind has an interactive tour feature with over a hundred use-cases. You can
  use this feature to learn how to utilize Teramind features and capabilities and see how some of
  the common rules work. Click the start tour button at the top-right corner of the Teramind
  Dashboard to access the Guided Tour feature.

# **3 Rules Overview**

Behavioral rules are a core part of Teramind's automated insider threats detection and data loss prevention capabilities. They allow you to identify unproductive, harmful or dangerous activity in real-time and optionally, act on your behalf to thwart such threats. The Intelligent Rules Engine is tightly integrated throughout Teramind platform:

- The Rules Engine utilizes Teramind's granular Activity Monitoring (using the <u>BI</u> <u>Reports</u>) capabilities, such as: apps, websites, emails etc. to determine what activity or content the rule should detect.
- It uses the <u>User Profiles</u> to determine whom the rule will apply to.
- You can use the Configurations settings to supply additional inputs such as employee <u>Schedule</u>, <u>Shared List</u> etc. for use with the <u>Rules Editor</u> to speedup the rule creation process and to share parameters across different rules.
- You can use the <u>Monitoring Settings</u> to control when and how the rule should work, minimizing privacy concerns.
- You can get detailed report of the rule violation incidents and associated risks on the <u>BI Reports</u>
   <u>> Behavior Alerts</u>, view recordings and gather evidence from the <u>Session Player</u> and get notified with the <u>Rule Notification Emails</u>.
- <u>Teramind Agent</u> enforces the rules you create from the Teramind Dashboard on the user's computer.

With hundreds of pre-built rule templates, pre-defined data categories and sample rules, you can get started with Teramind right away. You can create your own rules very easily with an intuitive, visual Rules Editor. The editor allows you to use natural language, regular expressions, shared list and pre-built data classifications to define what makes an activity or data sensitive and use simple conditions that will trigger a rule violation incident. When a rule is violated, you can be notified about the incident and optionally, the system can take actions automatically in different ways, such as: warning the user, blocking the activity etc.

Teramind keeps detailed records of each rule violation incident complete with detailed information and relevant metadata. You can see the rule violations report from the Alerts screen and quickly search for an incident.

Teramind also captures video and optionally, audio for a rule violation incident. You can view the recordings with the Session Player. The player allows you to see what rule notifications the user received and the trail of activities leading up to the incident. You can also export recordings for evidence or forensic investigation purposes. These recordings are automatically analyzed and index by Teramind's advanced OCR-engine. You can conduct high-speed <u>OCR search</u> for on-screen content or create <u>OCR-based rules</u> that will activate whenever certain text is detected on the screen, in real-time.

You can conduct risk analysis and identify high risk rules, users or objects from the Risk report. This also gives you ideas on how to adjust your rules' detection settings to focus on key areas of vulnerabilities or reduce false positives.

Finally, you can get scheduled delivery of rule violation reports or 'just-in-time' notifications in your inbox with the Email Notifications feature.

# 3.1 Common Use Cases

### 3.1.1 Preventing Data Loss

- Uploading documents that contain sensitive data to personal Cloud drives.
- Sharing documents outside the organization that has a confidential watermark.
- Sending out emails with sensitive files to non-corporate emails.
- Sending out emails with large attachments, too many attachments or zipped files.
- Printing during irregular hours.
- Printing a large number of sensitive documents.
- Taking screenshots, using screen capture or snipping tools.
- Copying CRM data and pasting it in emails, an external site or in an unauthorized application.
- Non-authorized use of Cloud sharing drives as an attempt to exfiltrate data.
- Saving files on a removable media.
- Sharing files with protected properties such as Tags, Attribute, Document Category etc.
- Employees communicating with competitors.

### **3.1.2 Detecting Insider Threats**

- Sign of discontent, harassment, legal threats or other sentiment in emails or IM chats indicating underlying issues.
- Development team using production data for testing and development.
- IT department storing authentication information such as credit card magnetic data which is prohibited under compliance laws.
- Accessing internet from restricted servers.
- Installing RDP clients or opening ports.
- User entering sensitive data such as passwords or personal details on potentially harmful or phishing sites.
- Employee using the browser's incognito/private mode frequently.
- Clearing browser history or deleting cache files.
- Sudden change in schedules or work pattern.
- Using code snippets in database queries.
- A vendor attempting to bypass security clearances and gain additional access by exploiting a bug, design flaw or configuration oversight in an operating system or software application.
- Contractor attempting to log in to database servers during off-hours or after the completion of a project.
- External user or freelancer accessing confidential customer and employee records.

### 3.1.3 Identifying Abusive Behavior and Accidental Threats

- Employees looking at materials online that are questionable, suspicious or otherwise dangerous. For example, hacking sites, pornography or piracy content.
- Abusing company resources, such as, printing unnecessary copies of documents, throttling the network etc.

- Customer agent asking for credit card numbers in unsecure email or support chat without using the proper communications channel.
- Sharing 'not for the pubic' files on social media or IMs.
- Employee opening emails that contain phishing links, viruses or malwares.
- Installing browser plugins that aren't secure or known to be problematic.
- Entering passwords or personal details in unsecure websites.

### 3.1.4 Detecting Malicious Intent

- Unauthorized user reading a document they should not have access to.
- User trying to hide information in an image.
- Employee participating in insider trading by sharing embargoed information such as M&A documents.
- Searching the internet for suspicious keywords and phrases, such as: 'how to disable firewall', 'recover password', 'steganography' etc.
- Running the Tor browser or accessing the darknet sites.
- Attempting to bypass the proxy server.
- Installing VPN client.
- Running network snooper, registry editor or other dangerous applications.
- Running password crackers, keyloggers or other malicious tools.
- Running software from external media or Cloud services.
- Changing the configuration of the network or system settings.
- Opening up blocked ports in the router settings.
- RDP connection attempts to forbidden hosts or unauthorized use of RDP applications.
- Performing IT sabotage by deleting user accounts, files or directories.
- Sharing source codes outside the development team.
- Creating back-door accounts or fake user credentials.

### 3.1.5 Improving Productivity and HR Management

- Get notified when workers spending too much time on Facebook, watching YouTube videos or surfing online shopping sites.
- Flag when employees idling too much, coming to work late, frequently absent etc.
- Warn employees when they are spending excess time on personal tasks such as applying for jobs.
- Using applications or sites that are unproductive.
- Not following prescribed policy when dealing with customers.
- Not following corporate etiquette policy, for example, visiting gambling sites.
- Contractor submitting invoices that do not match work hours or task completion status.

# 3.1.6 Conforming with Regulatory Compliance

 Prevent exfiltration of PHI (Protected Health Information) such as EHR, FDA recognized drug names, ICD codes, NHS numbers etc. to comply with HIPAA and HITECH policies (HIPAA 164.500 - 164.532).

- Automatically log-out user when inactive for certain time (HIPAA 174.312).
- Block unauthorized traffic from EHR/EMR and clinical applications (HIPAA 164.306).
- Restrict access based on a user's 'need to know' clearance. For example, block IT admins from accessing cardholder data while performing support tasks (PCI-DSS 10.1).
- Use OCR-based rules to detect when user has access to full view of a PAN (Personal Account Number) violating *PAN-masking* or *PAN-unreadable* rules (PCI-DSS 3.4/3.5).
- Block file-write operation when credit card numbers or magnetic track data is detected that would violate the *storing of authentication data* rule (PCI-DSS 3.2).
- Prevent sharing of contact list containing EU PII (personally identifiable information) such as English names, EU addresses or EU phone numbers (GDPR 5).
- Warn user when sharing files containing data such as DNA profile, NHS/NI number and sexual orientation data, hence preventing the violation of *processing of special categories of personal data rule* (GDPR 9).
- Ensure that non-EU admins cannot access the records of EU employees preventing the violation of *transfers of personal data to third countries* rule (GDPR 44).
- Enforce security-compliant behavior and take immediate action on detection of anomalies or rule violations and train employees with detailed rule-alerts (ISO 27001, Standard Enforcement).

# 3.1.7 Implementing the MITRE ATT&CK<sup>™</sup> Framework

Teramind MITRE ATT&CK Detection & Prevention Library has over 350 sample behavior policies and rules under 13 MITRE Techniques covering the Enterprise Attack Matrix. The rules are designed to detect threat-specific activity, content classification, pre-defined alerts and automated actions and a documented response playbook tailored to each defined scenario.

For more information about the Teramind MITRE ATT&CK Detection & Prevention Library please contact <u>sales@teramind.co</u>.

# 4 Steps for Creating a Rule

# 4.1 Why are You Creating the Rule?

Consider what you are trying to achieve. Do you want to monitor users' activities to prevent insider threats? Suspicious that an employee is committing a crime or colluding with an outsider? Or, are you trying to prevent IP leaks through external vendors? Do you need to comply with regulations, such as: HIPAA, GDPR etc.?

Create a new policy or assign it under an existing policy that fits the rule's purpose.

# 4.2 What Activity, Content or Behavioral Anomaly You Want to Detect?

Are you trying to detect discrepancies in employees' schedule? Does it involve an 'activity' such as, uploading a document? Or do you need to protect some 'content' such as, sensitive information inside a document?

Select a Rule Type from the Rules Editor's General tab.

If you are trying to detect behavioral anomalies such as an employee sending abnormal amount of emails than normal, then you should consider creating an anomaly rule.

Create an anomaly rule from the **Behavior** > **Anomaly** rule menu.

# 4.3 Where is the Activity Performed or Content Located?

Next you need to figure out where the activity or content sharing takes place. Does it involve emails? Transfer of files? Or, are there multiple ingress/egress points that you need to monitor, for example, emails + IM + website uploads?

Select Types of Activities or Types of Contents from the Rules Editor's General tab.

# 4.4 When Should the Rule be Active?

Do you want the rule to run 24/7 or follow a schedule? For example, do you want the rule active during work hours but disable it during the employee lunch breaks?

You can turn rules on/off from the **Behavior** menu.

Or, you can select a schedule under When is this rule active? from the Rules Editor's General tab.

# 4.5 Whom Should it Apply to?

Do you need the rule for everyone? Certain users, groups or departments? How about setting up a terminal server to monitor all your vendors or external partners? Do you need to exclude anyone from the rule's enforcement?

You can choose all these from the *User* tab on the Rules Editor. You can also select users on a policy basis by turning on the **INHERIT POLICY SETTINGS**.

# 4.6 What Makes the Data Sensitive?

If you are trying to detect Content, can you describe how the data looks? Does it have a clear structure such as a credit card number? Or, do you need to detect information that are unstructured or dynamic in nature?

Use the **Content** tab on the *Rules Editor* to define your content. You can choose from a *Predefined Classified Data* or create your own custom data types by selection other options from the list.

# 4.7 What Scenarios Violate the Rule?

Now, you have to think about scenarios that will trigger the rule. You might need multiple conditions and logics to detect the rule violation. Remember, there are also multiple ways of achieving the same result.

For example, if you wanted to prevent uploading of files to a personal Cloud drive, you could use a condition to detect file operation 'upload'. And use a second condition, 'upload URL' and specify website addresses such as 'google.drive.com, dropbox.com' etc. Or, you could just select file operations for 'write' and select the 'Cloud providers' from the built-in list.

Use the individual **Categories** (i.e. Website, Application etc.) tab on the *Rules Editor* to define the conditions for the activity or content.

# 4.8 What Action(s) Do You Want to Take?

What should the system do when a rule is broken? Do you want it to notify you immediately? Or, do you want it to take some preventive actions too? For example, block the action? Or do you need to take a sequence of actions? For example, block the action but also record the incident? Or, take different action depending on how often they broke the rule? Assign a risk level to the action?

Use the **Actions** tab on the *Rules Editor* to define the action(s). Use the **Advanced Mode** to assign multilevel thresholds and risks.

# **5 Understanding Common Rule Elements**

# 5.1 Rule Name and Description

NAME THIS RUI	E
Email with a	ittachments
DESCRIPTION (	OPTIONAL)

Each rule lets you specify a name and optionally, a description for the rule.

# 5.2 Tags

MARK THIS POLICY WITH TAGS TO IDENTIFY ITS PUR	POSE
email 🗙 etiquette 🗙	0

Tags are keywords you can assign to a rule to easily identify it. They are useful in searching for the rule and can also be used as filters (i.e. on the Risk or Alerts report).

# 5.3 Schedule

When is this rule active?	
Time that this rule is active	-+

By default, the rule stays active for 24 hours. However, you can adjust it to match your employee work schedule. For example, you can have the rule active during work hours but disable it during the employee lunch breaks. To change when the rule is active, drag the two **Circles** O to adjust the time. You can click the **Plus** + and **Minus** — buttons to add/remove additional time slots.

6

The rule schedule is based on the users' local time zones. It does <u>not</u> use the server time zone (the *TIMEZONE* option under the *Settings* > *Localization* screen).

**(** 

Agent Schedule rules and Anomaly rules do not have this scheduling module. Their scheduling is done in a different way.

# 5.4 Rule Conditions

You use the **CONDITION** fields in a rule to specify what values to compare the rule parameters with. To specify a rule condition, start typing in the relevant CONDITION field, then select an option from the pop-up to tell Teramind what type of value it is.

v	Webpages					
	Condition 1					
	Webpage Title					
	CONDITION					
	d	?				
	Contains d					
	Equals d	?				
	Match regexp /d/					
€	Equals list ID documents					
	Equals list Drug names					
	Equals list Keywords					
	Match list ID documents					
	Madala liat Duria anna a					

You can use multiple values in a CONDITION field by clicking on a blank space in the field.

There are several conditions you can use. For example:

# 5.4.1 Contains

1

Use the *Contains* conditions for a partial text match. So, say you were searching for "you" then the *Contains* condition will detect any of these texts: "YouTube", "youtube.com", "youth", "layout" since they all contain the text "you".

An example use of this condition can be to block certain applications from running, you can type them in the CONDITION field and choose one of these conditions.

Note that, this condition isn't case-sensitive. So, words like "You", "YOU", "you" – will have the same result.

### 5.4.2 Equals

Similar to the *Contains* condition but in this case, the text has to be an exact match. So, say you were searching for "you" then the *Equals* condition will NOT detect any of these texts: "YouTube", "youTube.com", "youth", "layout". However, it will detect "You", "YOU", "you" since they are exact matches even though the cases don't match, and that doesn't matter because the *Equals* condition isn't case sensitive.

## 5.4.3 Match RegExp

For complex matches, such as Credit Card Numbers, Social Security Numbers, etc., you can use the *Match RegExp* option. For example, the regular expression "[a-zA-Z] {2} [0-9] {12}" will detect any text that starts with 2 alphabet characters and ends with 12 digits such as, "PO123456789123" or, "ab123456789012".

Teramind supports the standard Regular Expression library available in C++.

### 5.4.4 Match Glob

This condition can be used in some specific cases, e.g., in File-based rules. It finds texts which follow a specific pattern or 'glob'. For example, the \* character matches zero or more characters. For example, the pattern, glob match \* . exe in the *File path* criteria of a File-based rule will match all the executable files.

The ? character matches exactly one character but you can also use more than one together. For example, glob match Sales???.doc will match "Sales2022.doc", "SalesACME.doc", "Sales23NA", etc.

The special \*\* (called "globstar") can be used to detect any directories and subdirectories. This allows for recursive directory searching easily. Here's an example:

$\equiv$ $\leftarrow$ File-glob	Edit Behavior Rule		
General User Files Actions	Files Condition 1 File operation File path © CONDITION CONDITION EXCEPT Start typing Other Start Street Start Street Start Street Start Street Start Street Start Street Start S	0	Rule File-glob Summary         File rules Policy         Category         Activity         Users         Apply to John Simmons         Files         File operation Any         File path glob match \Users\**\Documents\*.docx         Kations         Show warning with message Sensitive document

The above rule with the glob match  $Users \times Documents \times docx$  condition will detect any word document in paths like:

- \Users\Danny\Documents
- \Users\Brian\Documents

- \Users\Public\Documents\Jason\Sales\Documents
- \Users\Joe\Sensitive\Proposals\Documents
- etc...

# 5.4.5 Match List

This is similar to the *Contains* condition but matches with any item on a Shared List. So, for example, if you had a shared list containing "YouTube", "youtube.com", "youth", "layout" etc., then any text like, "you", "tube", "You", "Out", etc. will be detected.

Check out the <u>Shared List</u> section on the Teramind User Guide to learn more about Shared Lists.

### 5.4.6 Equals List

This is similar to the *Equals* condition but will check for an exact match with any item on a Shared List. So, for example, if you had a shared list containing "YouTube", "youtube.com", "youth", "layout" etc., then any text like, "youtube", "YouTube", "YouTube" will be detected. However, "you", or "tube", etc. will NOT be detected.

Check out the Shared List section on the Teramind User Guide to learn more about Shared Lists.

# 5.5 Rule Logic

Rule logic binds two or more Conditions or Content Definitions together. So, they can be applied to both the rule Conditions and the Content Definitions.

### 5.5.1 Condition Logic

Rule conditions can either have a 'OR' logic or an 'AND' logic.

Applications Condition 1 Application Name X Launched from CLI ( NO	D YES	×	Rule sss Summary DemoPolicyPolicy Category Activity Users Apply to Everyone Applications
Condition 2 Application Capition © CONDITION Contrains Registry Editor × Contains Password Editor Contrains Registry Editor × Contains Password Editor EXCEPT Start typing	X	°	Matches any of 2 conditions: Application Name contains pseditor.exe or contains regedit.exe Launched from CLI OR Application Caption contains Registry Editor or contains Password Editor C Actions Block with message Potential dangerous application

- Each value in a rule condition is considered as an 'OR' logic. In the above example, the rule will trigger if the 'Application Name' matches with 'regedit.exe' <u>or</u> 'pseditor.exe'.
- Each condition parameter is considered as an 'AND' logic. In the above example, the rule will trigger if the 'Application Name' <u>and</u> the 'Launch from CLI' parameters meets the condition.
- If you have multiple condition blocks, each new condition is considered as an 'OR' logic. In the above example, if either the Condition 1 or Condition 2 meets the criterion, the rule will be triggered.

You can see how the rule condition logics relate to each other on the Rule's **Summary** panel.

# 5.5.2 Content Logic

When creating a Content S haring rule and you have multiple content definitions, you can use logics to bind the definitions together. You can do so under the *Advanced: Setup Logics* section of the **Content** tab. Click on the **logic** between two conditions, a pop-up menu will appear where you can select a logic out of four options.



You can see how the content definition logics relate to each other on the Rule's **Summary** panel.

	Category
	Content sharing
20	Users
	Apply to Everyone
Ξ	3 Content
	String document field named tags equals CONFIDENTIAL
	String document field named title contains PRIVATE
	Files
0	3 Actions
	Do nothing

The table below explains each type of logic and how they are evaluated:

Logic	Evaluates true if:	Example
AND	BOTH of the definitions are met.	In the above example, we are using the <i>tags</i> field from the <i>File</i> <i>Properties</i> in Definition 1 and the <i>title</i> field in Definition 2. The logic will return true if file tags equals the text 'CONFIDENTIAL' <u>and</u> the title contains 'PRIVATE'. So, basically, it will process the files that are both confidential and private.
OR	EITHER of the definitions is met.	Using the above example, the logic will return true if file tags equals the text 'CONFIDENTIAL' <u>or</u> the title contains the text 'PRIVATE'. So, basically, it will process the files that are either confidential or private.

AND NOT	the first definition is met AND the second definition is NOT met.	Using the above example, the logic will return true if file tags equals the text 'CONFIDENTIAL' <u>and</u> the title does <u>not</u> contain the text 'PRIVATE'. So, basically, it will process the files that are confidential and not private.
OR NOT	the first definition is met OR the second definition is NOT met.	Using the above example, the logic will return true if file tags equals the text 'CONFIDENTIAL' <u>or</u> the title does <u>not</u> contain the text 'PRIVATE'. So, basically, it will process all files except the private ones.

# 5.6 Risk Level

On Teramind, you can assign risk levels to the rules. While optional, assigning risk levels has some advantages. It will let you analyse risk on the <u>Risk Report</u>, view risk trend and identify high risk users and rules.

There are two places you can assign risks.

# 5.6.1 Setting the Risk Levels in a Regular Rule

Webpages Actions	Select how the system should react to violations	Category
Changes saved	Chose time period for thresholds Chose the period of time for threshold calculations	Apply to Everyone Vebpages
	Configure action threshold Sequence of actions O O O O O	Matches any of 2 conditions: Webpage Url contains facebook.com or contain s instagram.com or contains twitter.com or co ntains youtube.com or contains pinterest or c ontains tumblr excludes contains facebook.com/business or c ontains twitter.com/change/IJCSRPootfFlovi
	Define action 1 × Frequency Define a risk level S 5 Moderate   ©	Qdovb0-Lg/ Qdovb0-Lg/ OR Webpage Title equals list Shopping Sites excludes contains staples.com
	Choose an action           Notify         Image: Choose an action           Select who should be notified upon violation of this policy         Image: Choose and the select a	uo notning
	Define action 2       ×         Frequency       Define a risk level         > 10       Utifies a risk level         Choose an action       ?         Notify       ?         Select who should be notified upon violation of this policy	

You assign risk level to a regular rule from the **Advanced Mode** of the *Rule Editor*'s **Actions** tab. You can choose from: No Risk, Low, Moderate, High and Critical. You can assign risk levels to each action block separately (you create action blocks by clicking the **ADD THRESHOLD** button).

Check out the <u>Advanced Mode Actions</u> section to learn more.

# 5.6.2 Setting the Risk Level in an Anomaly Rule

RULE RISK LEVEL					
RISK Select the de	gree of risk fo	r violating this rule			
No Risk	Low	Moderate	High	Critical	
ACCUMULATES RISK Whether this rule should be counted multiple times per day on multiple violations					

You assign risk level to an Anomaly rule Under its RULE RISK LEVEL section. You can choose from: No Risk, Low, Moderate, High and Critical. You can also turn on its ACCUMULATES RISK option on. If turned on, the risk associated with the rule will be counted multiple times for multiple violations. Otherwise it will be counted once for all violations. Unlike the regular rules which support multilevel risk assignments, you can assign only one risk level per anomaly rule.

# 5.7 Rule Summary

The right-most panel of the Rules Editor shows a summary of the rule in easy to follow language. You can see the values used in different tabs; what conditions are used and the logical connection among them; rule actions etc.



Note: <u>Anomaly Rules Editor</u> does not have a Summary panel.

i

# 6 Creating Regular Rules

The Rules Editor is an intuitive, visual editor where you can create sophisticated threat detection, productivity optimization or data loss prevention rules easily without going through multiple screens or coding.

To access the Rules Editor, create a new rule or edit an existing rule from the **Behavior** > **Policies** menu.



Check out the *Behavior* section on the <u>Teramind User Guide</u> to learn more about creating / editing rules, managing policies etc.

# 6.1 Setting Up the Rule Basics

You specify the basic settings for the rule on the Rules Editor's General tab.

NAME THIS RULE	
Email with atta	chments
DESCRIPTION (OPT	IONAL)

On the top fields, specify a Name and optionally, a Description for the rule.



You can also specify the rule's Tags on this tab. Tags are keywords you can assign to a rule to easily identify it. They are useful in searching for the rule and can also be used as filters (i.e. on the Risk or Alerts report).

# 6.2 Selecting Rule Categories and Types

You can select the *Rule Category* and *Types of Activities* (for Activity-based rules) or the *Types of Content* (for Content Sharing rules) from the Rules Editor's **General** tab.

There are three types of rule categories you can choose from: Agent Schedule, Activity and Content Sharing. Each category further supports different activities or content types. The table below shows which categories supports which activity/content types and their use cases:

	Agent Schedule	Activity	Content Sharing
Use Cases	Useful for detecting discrepancies in employee schedules or workflow. For example, receive notification when an employee is late. Or, block remote login during odd-hours or from unrecognized IPs.	Useful for detecting and controlling user activities for a range of monitored objects. For example, restricting app/website usage. Or, preventing file transfer operations (copy, upload, download etc.) on a folder/app/URL.	Useful for protecting sensitive data. For example, block and email that contains personally identifiable information. Or, preventing file transfer operations when certain content is detected in the file.
Type of Activity/Content	• <u>Schedule</u>	<ul> <li>Webpages</li> <li>Applications</li> <li>OCR</li> <li>Keystrokes</li> <li>Files</li> <li>Emails</li> <li>IM (Instant Messaging)</li> <li>Browser Plugins</li> <li>Printing</li> <li>Networking</li> <li>Registry</li> <li>Camera Usage</li> <li>Windows Log Event</li> </ul>	<ul> <li><u>Content</u></li> <li><u>Clipboard</u></li> <li><u>Files</u></li> <li><u>Emails</u></li> <li><u>IM (Instant Messaging)</u></li> <li><u>Keystrokes</u></li> </ul>

# 6.3 Defining Users

You specify the users for the rules on the Rules Editor's **User** tab.

Here you specify which users, groups, departments or computers the rule will apply to. If you select a computer, the rule will apply to all the users on that computer.

INHERIT POLICY SETTINGS	NO
APPLY RULE TO	
Everyone 🗙	
EXCLUDE FROM RULE	
Third-party Vendors X	

By default, the rule will inherit the user settings from the policy the rule is a part of. However, you can turn off the INHERIT POLICY SETTINGS to select users manually.

You can specify who the rule will apply to and optionally, exclude anyone you don't want to be included using the EXCULUDE FROM RULE field.

Check out the <u>Teramind User Guide</u> to learn how to add users, computers, groups and departments.

# 6.4 Defining Detection Criteria

After you have decided what type of rule you need and which users the rule will apply to, the next part is defining the detection criteria and scope. You will specify what, how or when the rule will be activated. You do this by selecting different parts of the selected Activity Type or Content Type. For example, the *URL* of the Webpage activity or the *Application Name* of the Clipboard content etc. You can then specify Condition Logics against the part(s) and the values you want to detect. Here's how a detection criterion may look like:



In the next few sections, we will walk you through all the available options for setting detection criteria for each rule type.

# 7 Agent Schedule Rules: What Schedule Violations Can You Detect (Windows)?

You can specify the detection criteria for the Agent Schedule-based rules from the **Schedule** tab. Agent Schedule-based rules are the easiest to define as most of it deals with only one detection criterion, schedule/time.



Agent Schedule-based rules use the employee schedules to determine their detection criteria. Check out the <u>Configure > Schedules</u> section of the Teramind User Guide to learn how to configure schedules for employees.

# 7.1 Agent Schedule Rule Examples

- Get notified when a user attempts to login during abnormal hours or on off days.
- Warns user or automatically locks out their computer if they are idling for too long.
- Notify supervisor automatically when an employee is absent or late.
- Notify HR and/or payroll if employee's work time or scheduled work hours change.
- Create a list or range of restricted IPs and disallow login from those IPs.

# 7.2 Agent Schedule Rule Criteria

The table below explains what criteria or schedule violation incidents the Agent Schedules supports and what conditions you can use with them.

Definition 1						
SELECT	SELECT TYPE OF SCHEDULE VIOLATION					
Dai	Daily Work Time 🔻					
	IS LESS THAN	I	IS GREATER THAN	?		
SPECIF	SPECIFY VALUE					
>	8	hrs				

### **Daily Work Time**

Used to detect if there are any discrepancies in the employee's daily work time. You can detect if their work hour is less than or more than specified hour(s).

Select either IS LESS THAN or IS GREATER THAN and enter an hour value in the SPECIFY VALUE field.

Definition 1					
SELECT TYPE OF SCHEDULE VIOLATION					
Scheduled Work Time					
IS SHORT BY	IS OVER BY	?			
DEFINE THE TIME RANGE					
< 0 min					

Definition 1

Starts early

>

DEFINE THE TIME RANGE

30

Definition 1

Ends early

DEFINE THE TIME RANGE

30

>

SELECT TYPE OF SCHEDULE VIOLATION

SELECT TYPE OF SCHEDULE VIOLATION

min

min

#### **Scheduled Work Time**

Used to detect if the employee is working longer or shorted than scheduled.

Select either IS SHORT BY or IS OVER BY and enter a minute value in the SPECIFY VALUE field.

### **Starts Early**

• ?

• ?

Detects if the employee started their work earlier than scheduled, by specified minutes.

Enter a minute value in the DEFINE THE TIME RANGE field.

Detects if the employee ends their work earlier than scheduled, by specified minutes.

Enter a minute value in the DEFINE THE TIME RANGE field.

Definition 1			
SELEC	T TYPE OF	SCHEDULE VIOLATION	
Ends late			• ?
DEFIN	E THE TIM	RANGE	
>	0	min	

### **Ends Late**

Detects if the employee ends their work later than scheduled, by specified minutes.

Enter a minute value in the DEFINE THE TIME RANGE field.

Definition 1				
SELEC	SELECT TYPE OF SCHEDULE VIOLATION			
Arr	rives late	• ?		
DEFIN	E THE TIME RAN	IGE		
>	0	min		
		J		

### **Arrives Late**

Detects if the employee starts their work later than scheduled, by specified minutes. Note that, unlike the 'Is Late' condition, this will trigger the rule <u>after</u> the employee has logged in.

Enter a minute value in the DEFINE THE TIME RANGE field.

Definition 1	
SELECT TYPE OF SCHEDULE VIOLATION	
ls absent	• ?

Definition 1	
ls late	• ?
DEFINE THE TIME RANGE	

### Is Absent

Detects if the employee is absent.

No other value is required.

### Is Late

Detects if the employee is late in logging in to their computer according to their scheduled start time. Note that, unlike the 'Arrives Late' condition, this will trigger the rule <u>before</u> the employee has logged in.

Enter a minute value in the DEFINE THE TIME RANGE field.

### Works on Day-Off

Detects if the employee is working on their day off.

No other value is required.

ELECT TYPE OF SCHEDULE VIOLATION	
Works on Day-off	• (?

Definition 1 SELECT TYPE OF SCHEDULE VIOLATION	
Login	• ?
SETUP OFF-HOURS	-+ ?
RESTRICTED IPS	
Matches list member Blacklisted IPs 🗙	?
Apply on screen unlock	?
EXCLUDED DAYS	
Sun Mon Tue Wed Thu Fri Sat	?

# Definition 1 SELECT TYPE OF SCHEDULE VIOLATION Idle DEFINE THE TIME RANGE 30 SETUP OFF-HOURS -+ ③

### Login (Hidden Agent)

Detects if the employee logs in during off hours and optionally also detects if they are trying to login from a restricted IP.

Set the off-hour range on the SETUP THE OFF-HOURS slider. You can click the + / – buttons to add/remove hours. Drag the slider **Circles** • to adjust the hours.

You can restrict IPs from where the login is not permitted in the RESTRICTED IPS field. You can enter any text in the IPv4 format, i.e.: 101.10.2.1/32 and choose a 'Equals' or 'Not Equals' conditions. Or, you can select a Shared List (Network-based) and specify a 'Match List' or 'Does Not Match' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

If you check the 'Apply on screen unlock' box, then the login event will be triggered when the user unlocks their screen.

Click on the days under the EXCLUDE DAYS section to include/exclude days in the detection criterion.

• This criterion works for Hidden/Silent Agent only.

#### Idle

Detects if the employee is idling (no keyboard or mouse activity) for more than specified minutes.

Enter a minute value in the DEFINE THE TIME RANGE field.

You can also set off-hours (breaks) by dragging the sliders under SETUP OFF-HOURS. The rule will be suspended during the off

hours. Click the small – or + buttons to add as many breaks as you want.

The *Idle* criterion will generate a single alert - when the rule is violated. This means, the rule will trigger when the user becomes idle for the duration specified in the rule's threshold (DEFINE THE TIME RANGE field). In the above case, the user will get a warning at the 30 minute mark. If the user continues to stay idle, they will not receive any more warnings.

However, if the user becomes active and then goes to idling again, the rule will reset and issue a warning after another 30 minutes.

# 8 Activity Rules: What Activities Can You Detect (Windows & Mac)?

You can specify the detection criteria for the Activity-based rules from their respective activity tab(s). For example, if you selected Webpages and Emails from the *Type of Activity* section (in the **General** tab), you will have two tabs called 'Webpages' and 'Emails' where you can add the rule conditions and values.

# 8.1 Webpages (Windows & Mac)

Webpages activity allows you to detect web browsing activities through URL, title and query arguments and browsing-related timing (i.e. idle/active).

# 8.1.1 Webpages Rule Examples

- Warn users when spending excessive time on social media or entertainment sites such as YouTube.
- Restrict access to non-whitelisted/unauthorized websites but allow managers to override if needed.
- Find out potential turnover by checking if employees are searching on jobsites. Get notified if the time spent on such sites exceeds a threshold.

# 8.1.2 Webpages Rule Criteria

The table below shows what criteria the Webpages activity supports and what conditions you can use with them.



On Mac, only the following criteria are supported: *Webpage Url, Webpage Title, Request type* and *Query argument name*.

Conditio	on 1				
Any	$( \bullet )$				
Capture	any actio	ons			

### Any

Lets you detect if a webpage is visited.

1 If you use this option without any other criteria, Teramind will trigger the rule anytime a webpage is visited.



### Webpage URL

Used to detect an URL (webpage address) or part of an URL.

You can enter some text in the CONDITION field and choose from 'Contains', 'Equals' or 'Match RegExp'. Or, you can select a Shared List and specify a 'Match List' or 'Equals' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any URLs in the EXCEPT field.

#### Webpage Title

Similar to the *Webpage URL* criterion, just use the webpage title instead.

Condition 1		
Webpage Title	e	
CONDITION		
Contains facebo	ook 🗙 Equals social media 🗴	0
Contains facebo	ook 🗙 Equals social media 🗙	0

Condition 1			
Browser	÷		
	Firefox X	Contains msedge exe X	
		contains insedge.exe	?

#### Browser

Allows you to specify one or more browsers to detect. You can choose from the list of predefined browsers. You can also enter the browser's process name (for example, enter msedge.exe for Microsoft Edge browser). \*See the notes below for more information.

If you typed a browser name, you can enter some text in the CONDITION field and choose from 'Contains', 'Equals' or 'Match RegExp'. Or, you can select a Shared List and specify a 'Match List' or 'Equals' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

You can exclude any browser(s) from the condition in the EXCEPT field.

### \* Tracking Browsers not in the Predefined List

If you want to use the Browser criterion with a browser not in the predefined list, you will need to include it in the TRACK PROCESSES field (*Monitoring Settings > select a monitoring profile > Network*). For example, if you want to detect if the user is browsing a particular site (e.g., teramind.co) on the Epic Privacy Browser, you will need to specify it in the TRACK PROCESSES field and then use a rule like this:

Network: Edit settings	×	Rule Browser name 2 Summary System Security Policy
YES SSL		Category
NO DON'T DISABLE TEREDO		Activity
DO NOT TRACK THESE IPS		🚢 Users
	0	Apply to John Simmons
DO NOT TRACK THESE PORTS	0	S Webpages
TRACK ONLY THESE IPS		Webpage Url contains teramind.co
	٥	Browser contains epic.exe
TRACK ONLY THESE PORTS		⊘ Actions
	0	Show warning with message Unapproved
epic.exe ×		browser
	C	△ Condition Browser is only supported in
TRACKING DAYS AND TIME		Brave, Chrome, Edge, Firefox, Internet
Mon Tue Wed Thu Fri Sat Sun		Explorer, Opera, Tor & Yandex. In order to
23:59		please add the filename to 'Track
CANCEL 🗸 APPLY	( CHANGES	Network section.

If you don't include the process name in the TRACK PROCESSES field, the rule might not work.



Condition 1 Webpage Url Request type <sup>×</sup> ↔	
Requested resource X Webpage visited X	(?
Requested resource X Webpage visited X	(?
Requested resource X Webpage visited X	(3

### **Query Argument Name**

A query argument name is the portion of a URL where data is passed to a website. It usually starts with a '?' or '&'. For example: www.contacts.com/saved?<u>company</u>= teramind. Here, company is the query argument name.

Using this criterion, you can create interesting detection rules. For example, by checking for the 'compose' argument in the Gmail website, you can detect if the user is composing an email. Combining this with the *Webpage URL* or *Webpage Title* criterion, you can detect more granular activities. For example, using the text 'new' in the *Webpage URL* and specifying 'compose' in the *Query Argument Name*, you can tell if a user is composing a new mail or editing an existing draft.

### **Request Type\***

This criterion allows you to further finetune when the rule action will trigger when the user visits an URL specified in the *Webpage URL* condition. It has two options: **Webpage Visited:** detects visited pages, downloaded files, etc. When you select this option, the rule will trigger only when <u>the user</u> visits the webpage specified in the *Webpage URL* condition and not any automated/background <u>browser</u> request. Previously, there was no way to distinguish user-initiated queries from secondary resource queries, therefore triggering false positives.

Consider this scenario:

- You have a rule that blocks a Webpage URL, twitter.com.
- 2. User visits some unrelated website, such as news.com.

3. The user is blocked to visit news.com because that website made a query to get some ads from twitter.com.
If you enable the *Request Type > Webpage Visited* option, the user can now visit news.com without the rule getting triggered.

**Requested Resource:** detects browser requests for static content, e.g., JS, CSS, images, etc., pages opened through an iframe, as well as API requests.

Consider this scenario:

- 4. You have a rule that blocks a *Webpage URL*, facebook.com.
- 5. User visits some unrelated website, such as news.com which has some Facebook ads.

If you enable the *Request Type* > *Requested Resource* option, the user will be allowed to visit news.com freely but the ads from Facebook will not load (404 error).

The *Request Type* criterion is only shown when you have already selected a *Website URL* criterion.

\* This feature may not work properly on older browsers. You need at least Chrome version 79, Edge version 79, Firefox version 89, Opera version 66, etc.

Webpages			
Condition 1			
Webpage Url	Time Active (min) ×	$\oplus$	
CONDITION			
>= 30min.			• ?

#### **Time Active**

Used to detect how long the user has been active on the website.

You can enter a minute value in the CONDITION field and use the '>=' logic.

The *Time Active* criterion is only shown when you have already selected a *Website Title* or a *Website URL* criterion.

Webpages		
Condition 1		
Webpage Url	Time Idle (min) <sup>×</sup> ↔	
CONDITION		
>= 15min.		• ?

### Time Idle

Similar to the *Time Active* criterion but detects how long the user has been idle/inactive on the site.

You can enter a minute value in the CONDITION field and use the '>=' logic.

• The *Time Idle* criterion is only shown when you have already selected a *Website Title* or a *Website URL* criterion.

Webpages			
Condition 1 Webpage Url	Time Focused (min) ×	$\oplus$	
>= 30min.			• ⑦

### **Time Focused**

Detects if the user stayed on a webpage for the specified duration. It doesn't matter whether the user was active (e.g., keyboard/mouse is used) or idle (no keyboard/mouse activity); as long as they stayed on the webpage without switching to other webpages or tabs, the condition will be triggered.

You can enter a minute value in the CONDITION field and use the '>=' logic.

• The *Time Focused* criterion is only shown when you have already selected a *Website Title* or a *Website URL* criterion.

Webpages			
Condition 1			
Webpage Url	Total Time Active (min) $^{ imes}$	€	
CONDITION			
>= 120min.		•	?
			_

#### **Total Time Active**

Similar to the *Time Active* criterion but detects the total time active (a combination of all the active times during an entire session).

You can enter a minute value in the CONDITION field and use the '>=' logic.

• The *Total Time Active* criterion is only shown when you have already selected a *Website Title* or a *Website URL* criterion.
Webpages	
Condition 1	
Webpage Url	Total Time Idle (min) <sup>×</sup> ↔
CONDITION	
>= 60min.	- ③

#### **Total Time Idle**

Similar to the *Time Idle* criterion but detects the total time idle (a combination of all the idle times during an entire session).

You can enter a minute value in the CONDITION field and use the '>=' logic.

• The *Total Time Active* criterion is only shown when you have already selected a *Website Title* or a *Website URL* criterion.

Webpages		
Condition 1		
Webpage Url	Total Time Focused (min) $\times$ $\oplus$	
CONDITION		
>= 300min.		• (?)

#### Total Time Focused

Similar to the *Time Focused* criterion but detects the total time focused (a combination of all the focused times during an entire session).

You can enter a minute value in the CONDITION field and use the '>=' logic.

• The *Total Time Focused* criterion is only shown when you have already selected a *Website Title* or a *Website URL* criterion.

# 8.2 Applications (Windows & Mac)

Applications activity allows you to detect the launch of any application including the ones run from the command line interface or through the Windows Run command.

## 8.2.1 Applications Rule Examples

- Detect and block when a dangerous application (i.e. Windows Registry Editor) or an unauthorized application is launched.
- Warn users when spending time on unproductive applications such as games, music/video player etc.
- Detect when anonymous browsers, such as, 'Tor' is used.
- Detect when screen sharing applications, snipping tools or peer-to-peer file sharing/torrent software are used.

## 8.2.2 Applications Rule Criteria

The table below explains what criteria the Applications activity supports and what conditions you can use with them.

On Mac, only the Application Name criterion is supported at the moment.

Condit	ion 1			
Any	€			
Capture	e any actions			
				-

#### Any

Lets you detect if an application is launched.

() If you use this option without any other criteria, Teramind will trigger the rule anytime, any application is launched.



#### **Application Name**

Used to detect the name or part of the name of an application. For example: 'regedit.exe'.

You can enter any text in the CONDITION field and choose from 'Contains', 'Equals' or 'Match RegExp'. Or, you can select a Shared List (Textbased or Regular Expressions-based) and specify a 'Match List' or 'Equals List' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any applications you do not want to track in the EXCEPT field.

Application Caption	
CONDITION	
Contains Registry Editor	
	?
EXCEPT	3

#### **Application Caption**

Similar to the *Application Name* criterion, just use the application caption instead. For example: 'Registry Editor'.

Condition 1				
		Ð	Launched from CLI	
s 💿	YES		NO	
S	YES	-	NO	

#### Launched from CLI

Detects if an application is launched from the CLI (Command Line Interface).

Select YES or NO.

Running elevated 🕢 🕤		
NO	YES	?

#### **Running elevated**

Detects if an application is launched with elevated permission using Windows User Account Control (UAC).

An app is usually run as elevated when you launch it from the Windows Start menu while holding down the SHIFT+CTRL keys. Or, when you run it from the Windows Explorer with the right-click and then select the *Run as administrator* option. An application is also run elevated when it might make changes to the system (e.g., a software being installed for all users instead of just the current user). In such cases, Windows will invoke the UAC and the application will be considered as running elevated.

This criterion will help enhance the security of your system as software that usually requires admin permission might make changes to your system. It can also help you mitigate the impact of malware and prevent unauthorized privilege escalation, etc.

Select YES or NO.

### Command Line Arguments

Command line arguments are additional parameters, options or values passed to an application when launching it from the CLI. They usually start with a '/', '-' or a space after the application name. For example: C:\ipconfig /renew. Here, renew is an argument.

Using this criterion, you can, for example, disable certain functions of an application. For example, in the second screenshot on the left, we blocked the launch of the *ipconfig* application when the *release* or *renew* 

Launched from CLI	Command line arguments $^{ imes}$	Application Name $^{\times}$	€
CONDITION			
release 🗙 renew 🗙			6
release 🗙 renew 🗙			?
release X renew X			?

Rule application-activity Summary Demo Policy Policy	arguments are used. Otherwise, it will run as usual.
Category Activity Users Apply to Everyone	You can only use text value with the 'Contains', 'RegExp' or exact text match conditions for the CONDITION field.
Applications Application Name contains ipconfig.exe Command line arguments release or renew Launched from CLI	• The <i>Command Line Arguments</i> criterion is only shown when you have already selected YES for the <i>Launched from CLI</i> criterion.
<ul> <li>Actions</li> <li>Block with message This feature is not allowed.</li> </ul>	

Applications		
Condition 1		
Application Name	Time Active (min) $\stackrel{\times}{\rightarrow}$ $\oplus$	
CONDITION		
>= 24min.		• ?

#### **Time Active**

Used to detect how long the user has been active on an application.

You can enter a minute value in the CONDITION field and use the '>=' logics.

• The *Time Active* criterion is only shown when you have already selected an *Application Name* or an *Application Caption* criterion.

Applications			
Condition 1 Application Name	Time Idle (min) ×	⊕	
CONDITION			
>= 15min.			• ?

#### Time Idle

Similar to the *Time Active* criterion but detects how long the user has been idle/inactive on an application.

You can enter a minute value in the CONDITION field and use the '>=' logic.

• The *Time Idle* criterion is only shown when you have already selected an *Application Name* or an *Application Caption* criterion.

Webpages			
Condition 1 Webpage Url	Time Focused (min) ×	•	
>= 30min.			• ?

#### **Time Focused**

Detects if the user stayed on an application for the specified duration. It doesn't matter whether the user was active (e.g., keyboard/mouse is used) or idle (no keyboard/mouse activity); as long as they stayed on the app without switching to other apps, the condition will be triggered.

You can enter a minute value in the CONDITION field and use the '>=' logic.

• The *Time Focused* criterion is only shown when you have already selected an *Application Name* or an *Application Caption* criterion.

Applications			
Condition 1			
Application Name	Total Time Active (min) $^{ imes}$	$\oplus$	
CONDITION			
>= 180			• (?)

#### **Total Time Active**

Similar to the *Time Active* criterion but detects the total time active (a combination of all the active times during an entire session).

You can enter a minute value in the CONDITION field and use the '>=' logics.

• The *Total Time Active* criterion is only shown when you have already selected an *Application Name* or an *Application Caption* criterion.

Applications		
Condition 1		
Application Name	Total Time Idle (min) $^{ imes}$ $\oplus$	
CONDITION		
>= 15		• ?

#### **Total Time Idle**

Similar to the *Time Idle* criterion but detects the total time idle (a combination of all the idle times during an entire session).

You can enter a minute value in the CONDITION field and use the '>=' logics.

• The *Total Time Idle* criterion is only shown when you have already selected an

*Application Name* or an *Application Caption* criterion.

Applications		
Condition 1 Application Name	Total Time Focused (min) ×	<b>(</b>
CONDITION		
>= 300min.		• ?

#### **Total Time Focused**

Similar to the *Time Focused* criterion but detects the total time focused (a combination of all the focused times during an entire session).

You can enter a minute value in the CONDITION field and use the '>=' logics.

• The *Total Time Focused* criterion is only shown when you have already selected a *Application Name* or an *Application Caption* criterion.

# 8.3 OCR (Windows)

The OCR detects on-screen text in real-time, even inside images or videos. It works with multi-screen setups, virtual desktops and terminal servers. By default, OCR detects English text. But you can also use few other languages (check out the <u>Teramind Agent specifications and supported platforms</u> article to learn which languages are supported). Check out the <u>Editing Screen Settings</u> section on the Teramind User Guide to learn how to change the default OCR language.

## 8.3.1 OCR Rule Examples

- Generate an alert when a user sees a full credit card number on the screen violating the PCI DSS compliance requirements.
- Get notified when your employees visit sites that contain illegal or questionable content, such as: hacking, pornographic or piracy related content.
- Detect if an unauthorized user is viewing a document that contains sensitive words.
- Prevent steganographic data exfiltration by detecting information hidden inside images or videos.

## 8.3.2 OCR Rule Criteria

The table below shows what criteria the OCR supports and what conditions you can use with them.

DCR		
Condition 1		
On-screen text	$\odot$	
CONDITION		
Match regexp /(^[A- {1,3}[A-Z] <b>\$</b> ) (^[0-9]{	Z](2)[0-9](2) [A-Z](3)\$)[(^[A-Z][0-9](1,3) [A-Z](3)\$)](^[A-Z](3)\$) 1,4) [A-Z](1,2)\$)[(^[0-9](1,3) [A-Z](1,3)\$)](^[A-Z](1,2) [0-9](1,4)\$)] (^[A-Z](1,3) [0-9](1,3)\$)	?
Match regexp /(^[A- {1,3}[A-Z]\$) (^[0-9]{	Z](2][0-9](2) [A-Z](3)\$)[(^[A-Z][0-9](1.3) [A-Z](3)\$)[(^[A-Z](3)\$) [1,4] [A-Z](1,2)\$)[(^[0-9](1,3) [A-Z](1,3)\$)](^[A-Z](1,2) [0-9](1,4)\$)] (^[A-Z]{1,3] [0-9]{1,3}\$)/	?
Match regexp /(^[A- {1,3}[A-Z]\$) (^[0-9]{ EXCEPT	Z1{2][0-9]{2] [A-Z]{3}\$][(^{A-Z][0-9]{1,3] [A-Z]{3}\$][^{A-Z]{3}}[0-9] X [1,4] [A-Z]{1,2}\$][(^{0-9]{1,3} [A-Z]{1,3}\$][(^{A-Z]{1,2} [0-9]{1,4}\$)] (^{A-Z]{1,3} [0-9]{1,3}\$)/	?

#### **On-Screen Text**

Used to specify the text to detect on-screen.

If you type anything in the field, you can choose from 'Contains', 'Match regexp', 'Match list' as conditions. Or, you can select a Shared List (Text-based or Regular Expressions-based) and specify a 'Match List' condition without typing any text. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can use the EXCEPT field to do detect any text except for the ones defined in this field.

Be careful while using the EXCEPT field as it will detect all text on the screen except the ones you exclude, triggering the rule every time!

#### **Application Name**

Used to specify the applications in which the OCR content will be detect.

You can choose from 'Contains', 'Equals' or 'Equals List' with any text as conditions. Or, you can select a Shared List (Text-based or Regular Expressions-based) and specify a 'Equals List' or 'Match List' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any applications you do not want to track in the EXCEPT field.

• The Application Name criterion is only shown when you have already specified an *On-Screen Text* condition.

	Application Name 🕒	
C	ONDITION	
	Contains regedit.exe 🗙	0
		•
	Equals list URL	
	Equals list Shopping Sites	(?)
	Equals list ID documents	J
€	Equals list Drug names	
	Equals list Keywords	
	Match list URL	
	Matchell list Changeline Cites	

# 8.4 Keystrokes (Windows & Mac)

Keystrokes activity is used to detect keystrokes entered by the users in applications or websites. In addition to regular keys, you can also detect the clipboard operations (copy/paste commands), use of special keys such as the Print Screen or multiple simultaneous keypress or combo keys such as CTRL+C.

## 8.4.1 Keystrokes Rule Examples

- Detect if someone is taking screenshots with the likely intention of stealing information.
- Detect if an employee is using unprofessional language with a customer on live chat.
- A user repeating easy to guess passwords, hence, creating a security risk.
- Disable keyboard macros or select combo keys in certain applications or for some users.

## 8.4.2 Keystrokes Rule Criteria

The table below shows what criteria the Keystrokes activity supports and what conditions you can use with them.

On Mac, only the *Text Typed*, *Word Typed*, and the *Application Name* criteria are supported.

Condition 1	>
Text Typed	
CONDITION	
Contains <prtsc> X Contains <shift+prtsc> X</shift+prtsc></prtsc>	?
EXCEPT	
Ştart typing	(?)

#### **Text Typed**

Used to detect continuous text without any word break. For example, if text typed = "password", the rule will be triggered when the last letter 'd' is typed.

You can enter any text in the CONDITION field and choose the 'Contains' or 'Match RegExp' option. Or, you can select a Shared List (Textbased or Regular Expressions-based) and specify a 'Equals List' or 'Match List' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any text you do not want to detect in the EXCEPT field.

Condition 1		
Word typed	$\oplus$	
CONDITION		
Contains passwo	d X	C
Contains passwo	d X	

#### Word Typed

Used to detect word typed with breaks. For example, if word typed = "password" the rule will be triggered when you finish typing the word and then type separation key, such as: <Space> or '!' or '.' (dot).

You can enter any text in the CONDITION field and choose the 'Contains' option. Or, you can select a Shared List (Text-based or Regular Expressions-based) and specify a 'Equals List' or 'Match List' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any word you do not want to detect in the EXCEPT field.

#### Difference Between Text Typed and Word Typed

Text Typed will detect any partial text while Word Typed will detect only full words. For example, if you are looking to detect 'club', and the user typed 'golfclub', Text Type will detect it but Word Typed will not. If the user typed 'golf club', then both the Text Typed and Word Typed criteria will detect the keystrokes.

e	ystro	kes																	tes	t Policy				idi y	
c	onditio	n 1																	B	Cate	gory				
	Snecia	Key	Tuned		0															Activ	ity				
	opecia	i key		-	Ð														-	User	s				
ì	ProSer	v V I D	use N																	Appl	y to Eve	eryon	e		
h		^	Juse y															?	-	Keys	trokes				
								1			Print	Secol	Pause	cial Ke	v Tvn	ed Pro	Scr.or	Pa							
	Esc 0	-	12	13	14		2	10		"	18	-	1	110			112	Screen	Look	Break					
	• 1	2	3	4	5	6	Ŀ	L	8	9	•	Ŀ	·	•	Back	spao	e (2)	Insert	Home	Page Up	Num Lock		Ŀ		
	Tab 🖘	٩	w		R		т	Y		U	1	0		P	{	)	ţ.	Delete	End	Page Down		8	9		
	Caps Lo	ick g	A	s	D	F	G		н	9	×		L.			En	der 🚽				4	5	8	Ľ	
	Shift ()	z	×		2	v	8		N	-		<	,		?	Sh	10.0		1		1	2	3		
	Ctrl ^	Alt ~	Win										Win		At 1		Ctrl ^	-	1.	-	0			Enter	
																							_		

Condition 1			
Word typed	Application Name $^{ imes}$	$\oplus$	
CONDITION			
Contains word	×		?
EXCEPT			
Start typing			?

#### Special Key Typed

You can detect special keys such as the function keys (i.e. F1), PrtScr or key combinations such as <Shift+P>. When you select the *Special Key Typed* criteria and click on the CONDITION field, Teramind will pop-up a virtual keyboard where you can select the special keys.

#### **Application Name**

Specifies which applications will be tracked.

You can enter any text in the CONDITION field and choose from 'Contains', 'Equals' or 'Match RegExp'. Or, you can select a Shared List (Textbased or Regular Expressions-based) and

specify a 'Match List' or 'Equals' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any applications you do not want to track in the EXCEPT field.

The Application Name criterion is only shown when you have already selected a *Text Typed* or *Word Typed* criterion. Also, if you use this criterion, you cannot use the *Webpage URL* criterion in the same condition block. However, you can use both criteria in separate condition blocks (i.e. *Condition 1* and *Condition 2*).

Condition 1	
Word typed 🛛 Webpage Url 🎽 🕣	
CONDITION	
Contains salesforce com	
	(?)
ХСЕРТ	0

#### Webpage URL

Specifies which websites will be tracked. This is same as the *Webpage URL* criterion under the <u>Webpages</u> activity.

The Webpage URL criterion is only shown when you have already selected a *Text Typed* or Word Typed criterion. Also, if you use this criterion, you cannot use the Application Name criterion in the same condition block. However, you can use both criteria in separate condition blocks (i.e., Condition 1 and Condition 2).

## 8.5 Files (Windows & Mac)

Files activity lets you detect file operations such as access, read, write, upload, download, create folder, rename folder, etc. Each operation allows you to further specify additional detection criteria. For example, the *Download* operation lets you detect the program, file name, URL and file size.

Note that Teramind cannot track the copy operation for a file from one network server to the same network server (e.g. source and destination is the same). For example, copying of a file from \\103.247.55.101\source\_folder to \\103.247.55.101\destination\_folder cannot be tracked. Copy to and from

same local drives is detected as usual.

**i** )

Also copying of an empty file cannot be tracked since it will be impossible for the system to distinguish between the file *create* and *copy* operations due to the zero size of the file.

Note that not all criteria are available for all file operations. Teramind will automatically show or hide the criteria based on which file operation you select. For example, if you select the *Insert* or the *Eject* operation, you will only see the *Program* and *Drive* criterion. Or, when you select the *Copy* or *Move* operation, you will see options to specify the source (e.g., *Source file path, Source network host, Source drive*, etc.).

Condition 1	I
File opera	tion 🕒
CONDITION	Program
Eject 🗙	Drive
EXCEPT	
Start typing.	

Select a file operation by clicking the CONDITION filed.

Click the  $\bigcirc$  button to add a criterion to the operation.

If you choose the 'Any' file operation without any other criteria, Teramind will trigger the rule for any file operations.

## 8.5.1 Files Rule Examples

- Detect/block access to sensitive folders.
- Turn a folder or drive write proof, preventing any changes to the files in that folder.
- Get notified when files are uploaded to Cloud sharing sites, such as, Drobox, Google Drive etc.
- Block files from being copied to/from removable media, such as, USB drives.
- Prevent changes of program settings or tampering of configuration files.
- Block certain file transfer protocols, such as, FTP.
- Restrict the transfer of large files.

## 8.5.2 Files Rule Criteria

On Mac, only the following criteria and conditions are supported:

- File Operation conditions: Access, Copy, Write, Rename, and Delete).
- **Program** conditions: *Contains* and *Equals*.
- File Path conditions: *Contains* and *Equals*.
- **Drive** conditions: *All drives* and *All external drives*.

The table below describes the criteria you can use for the Files activity, and which file operations are supported for each criterion.

Condition 1	
File operation Program ×	$\oplus$
CONDITION	
Contains wordpad.exe 🗙	0
Contains wordpad.exe X	3

	Condition 1	
	File operation Network host $\stackrel{\times}{\bullet}$ $\oplus$	
	CONDITION	
	Equals \\teramind.sharepoint.com X	0
	All shares	
	Match list Blacklisted IPs	?
	Match list Safe sites	
€	Match list EU ACL	- 1
	Match list White Listed IPs	

#### Program

Lets you specify in which program/app the file operation took place.

You can choose from 'Contains', 'Equals' or 'Match RegExp'.

Similarly, you can exclude any programs you do not want to track in the EXCEPT field.

#### **Network Host**

Used for network-based file operations. It detects the host name of the file operation. For example: http://sharepoint.com, ftp://filevault.net etc.

You can choose from 'Contains', 'Equals', 'All Shares'. Or, you can select a Shared List (Network-based) and specify a 'Match List' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any hosts you do not want to track in the EXCEPT field.

This criterion is not supported in: Insert,
 Eject, Download and Upload operations.

#### **Source Network Host**

Similar to the *Network Host* criteria but detects the source network host of a *Copy* or *Move* operation.

This criterion is only available with the Any, Copy, Move and Rename operations.

File operation	Source network host $^{ imes}$ $\oplus$	
CONDITION		
Start typing		(
All shares		
Match list Test		(

	Condition 1 File operationFile path × ⊕	
	a	?
	Contains a	
	Equals a	?
	Match glob a	
€	Parent folder equals a	
	Parent folder glob match a	
	File extension equals a	
	File extension contains a	
	Tile extension act equals a	

#### **File Path**

Used to detect a parent folder or file extensions. For example: document, c:\windows etc. File extension are used to identify a file type and usually starts with a '. (dot)'. For example: .*doc*, .*pdf* etc. Note: you do not need to specify the '.' when entering the extension.

You can choose from various 'Contains', 'Equals', 'Match' conditions. When using one of the 'match' options, you can use a wildcard such as \*, ?, [abc], [a-z], etc. For example, ?at will match Cat, cat, Bat or bat.

You can exclude any path(s) you do not want to track in the EXCEPT field.

This criterion is not supported in: Insert,
 Eject, Download and Upload operations.



#### 

#### **Source File Path**

Similar to the *File Path* criteria but detects the source folder, file name or extension of a *Copy* or *Move* operation.

• This criterion is only available with the Any, Copy, Move and Rename operations.

#### Drive

Detects the local, network or external drives.

You can enter a drive name (e.g., 'c') and select that particular drive or choose from 'All Drives' or 'All External Drives' conditions.

 This criterion is not supported in: Download and Upload operations.

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Condition 1	
File operationSource drive × ↔	
CONDITION	
d	?
C:	
All drives	?
All external drives	
ADD CONDITION	

Condition 1	
File operation Cloud provider $\stackrel{\times}{\frown}$ $\bigcirc$	
CONDITION	
Ştart typing	?
Any cloud providers	
Dropbox	?
Google drive	,
⊕ OneDrive	
Box	

#### **Source Drive**

Similar to the *Drive* criteria but detects the source drive of a *Copy* or *Move* operation.

• This criterion is only available with the Any, Copy, Move and Rename operations.

#### **Cloud Provider**

Used to detect the cloud provider.

You can choose from 'All Cloud Providers', 'Dropbox', 'Google Drive', 'OneDrive' or 'Box', etc.

Similarly, you can exclude any providers you do not want to track in the EXCEPT field.

This criterion is not supported in: Insert,
 Eject, Download and Upload operations.

	Condition 1	
	File operation Source cloud provider $\stackrel{\times}{\longrightarrow}$ $\odot$	
	ONDITION	
	Start typing	?
	Any cloud providers	ĺ
	Dropbox	?
	Google drive	
Ð	OneDrive	
	Box	

# Condition 1 File operation RDP File Transfer × ⊕ NO YES

#### **Source Cloud Provider**

Similar to the *Cloud Provider* criteria but detects the source cloud provider of a *Copy* or *Move* operation.

• This criterion is only available with the Any, Copy, Move and Rename operations.

#### **RDP File Transfer**

Detects if the file copy operation is done over an RDP (Remote Desktop Protocol) session. This happens when you connect to a remote computer and copy files to/from it.

You can select either YES or NO.

• This criterion is only supported in the Copy operation.

Condition 1		
File operation	Download File name × 🕣	
CONDITION		
Match regexp /.*\.(	doc docx)/ 🗙	(?)
		0
EXCEPT		
Contains private 🗙	3	0
		J

#### **Download File Name**

Lets you detect the download file name.

You can choose from 'Contains', 'Equals' or 'Match RegExp'.

Similarly, you can exclude any files you do not want to track in the EXCEPT field.

 This criterion is only supported in the Download operation.

Condition 1		
File operation	Download URL $^{ imes}$	(+)
CONDITION		
Contains https://p	iratefiles.net 🗙	3
		$\bigcirc$
EVEEDT		
EXCEPT		

Condition 1			
File operation	Download URL $^{\times}$	Download File size (bytes) $^{ imes}$	
CONDITION			
> 10000 X			?
EXCEPT			
< 20000 ×			?

#### **Download URL**

Similar to the *Download File Name* criterion but used to detect the download URL instead.

This criterion is only supported in the Download operation.

#### **Download File Size**

Used to detect the size (in bytes) of the file being downloaded.

You can enter a byte value in the CONDITION field and use '=', '>', '<', '>=' logics.

Similarly, you can use the EXCEPT field to specify an exception.

(1) This criterion is only supported in the Download operation.

#### **Upload File Name**

Similar to the *Download File Name* criterion but used for Upload operation instead.

This criterion is only supported in the Upload operation.

Condition 1	
File operation Upload File name 🔶 🕀	
CONDITION	
Contains confidential × Contains sensitive ×	(
FYCEPT	
Start typing	(

?
0
•

Condition 1	
File operation	Upload File size (bytes) × 📀
CONDITION	
> 20000 🗙	0
EXCEPT	
Start typing	0

Condition 1			
File operation	Upload via ×	$\odot$	
CONDITION			
Start typing			(
FTP			
SMTP			(
Outlook			
Browser			

#### **Upload URL**

Similar to the *Download URL* criterion but used for the Upload operation instead.

This criterion is only supported in the Upload operation.

#### **Upload File Size**

Similar to the *Download File Size* criterion but used for the Upload operation instead.

This criterion is only supported in the Upload operation.

#### **Upload Via**

Lets you detect what kind of application or protocol is used for the upload operation.

You can choose from 'FTP', 'SMTP', 'Outlook' or 'Browser'.

Similarly, you can use the EXCEPT field to ignore any protocol/application you do not want to track.

This criterion is only supported in the Upload operation.

# 8.6 Emails (Windows)

Emails activity lets you detect outgoing and incoming emails including any email attachments.

## 8.6.1 Emails Rule Examples

- Prevent attaching files from certain location(s) such as, a folder, a network path or a Cloud drive.
- Restrict sending of work emails from personal email accounts.
- Prevent sending of attachments to non-business addresses.
- Detect if a competitor is contacting your employees or vice versa.
- Get notified if a user is sending emails with large attachments.

## 8.6.2 Emails Rule Criteria

The table below shows what criteria the Email activity supports and what conditions you can use with them.

Condition	1		
Any	$\oplus$		
Capture ar	ny actions		

Condition 1	
Mail Body	
CONDITION	
Match list Keywords 🗙	
EXCEPT	

#### Any

Lets you detect if an email is sent or received.

1 If you use this option without any other criteria, Teramind will trigger the rule anytime an email is sent or received.

#### **Mail Body**

Used for detecting text inside the mail body.

You can choose from 'Contains' or 'RegExp' with any text. Or, you can select a Shared List (Text-based or Regular Expressions-based) and specify a 'Match List' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any text/list you do not want to track in the EXCEPT field.

Condition 1	
Mail Subject	
CONDITION	
Contains important X Contains urgent X Contains official X	
Contains sensitive X Contains confidential X	?
XCEPT	
Ctart broing	(?)

#### **Mail Subject**

Used for detecting text inside the mail subject.

You can choose from 'Contains', 'Equals' or 'RegExp' with any text. Or, you can select a Shared List and specify a 'Match List' or 'Equals List' condition. Check out the <u>Shared</u> <u>List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any text/list you do not want to track in the EXCEPT field.

Condition 1	
Mail CC	
CONDITION	
Contains legal X Contains Nethan X	?
EVEEDT	
EACEPT	

#### Mail CC

Detects the CC addresses in an email.

You can choose from 'Contains', 'Equals' or 'RegExp' with any text. Or, you can select a Shared List and specify a 'Match List' or 'Equals List' condition. Check out the <u>Shared</u> <u>List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any text/list you do not want to track in the EXCEPT field.

Condition 1	
Mail To	
CONDITION	
Start typing	?
EXCEPT	
Contains teramind.co X	?

#### Mail To

Similar to *Mail CC* criterion but used to detect the *Mail To* addresses instead.

Condition 1		
Mail From	$\odot$	
CONDITION		
Contains .ch	X Contains .pl X Contains competitor X	
		(?)
		(?)
EXCEPT		(?)

#### **Mail From**

Similar to *Mail CC* and *Mail To* criterion but used to detect the *Mail From* addresses instead.

Condition 1		
Mail Direction		
INCOMING	OUTGOING	?

#### **Mail Direction**

Lets you detect if the mail is being sent or received.

Select either the INCOMING or OUTGOING option.

Condition 1	
Mail Client	
CONDITION	
Ştart typing	?
GMail	
Outlook client	?
Outlook web client	·
Yahoo Mail	
Yandex Mail	
CONTINUE	

#### **Mail Client**

Used to specify the mail client you want to detect.

You can choose from 'Gmail', 'Outlook Client', 'Outlook Web Client', 'Live.com', 'Yahoo Mail', and 'Yandex Mail'. Teramind keeps adding support for new clients so you might see more clients than mentioned here.

Similarly, you can exclude any client(s) you do not want to track in the EXCEPT field.

Condition 1			
Has attachr	nents 🕀		
	NO	YES	?

Condition 1	
Has attachments Attachment name $^{ imes}$ $igodot$	
CONDITION	
Extension contains doc $\times$ Extension contains xls $\times$	?

#### **Has Attachments**

Used to detect if the mail has any attachment.

Select either the YES or NO option.

#### **Attachment Name**

Used to detect the names or extensions for the attached files. A file extension is used to identify a file type and usually starts with a '. (dot)'. For example: *.doc, .pdf* etc. Note: you do not need to specify the '.' when entering the extension.

You can choose from 'Contains', 'Equals' or 'RegExp' with any text. Or, you can check for file extensions using one of the 'Extension Contains', 'Extension Equals', 'Extension Does Not Contain' options.

• The Attachment Name criterion is only shown when you have already selected YES for the Has Attachment criterion.

Condition 1	
Mail size	$\odot$
CONDITION	
>10000 ×	
EXCEPT	
< 20000 🗙	

#### Mail Size

Used to detect the size (in bytes) of the mail.

You can enter a byte value in the CONDITION field and use the '=', '>', '<', '>=' logics.

Similarly, you can use the EXCEPT field to specify an exception.

# 8.7 IM – Instant Messaging (Windows)

IM activity lets you detect instant messaging conversations and group chats for popular IMs such as: Skype, Slack etc. You can detect both incoming and outgoing messages, detect the participants and search the message body for keywords or text.

## 8.7.1 IM Rule Examples

- Restrict messages to/from select contacts.
- Detect if a user is in contact with suspicious people or criminal groups.
- Monitor support chat conversations to improve quality of customer service and SLA.
- Get notified if the chat body contains specific keywords or sensitive phrases such as lawsuit threats, angry sentiments, sexual harassment etc.

## 8.7.2 IM Rule Criteria

The table below shows what criteria the IM activity supports and what conditions you can use with them.

Condition 1
Any 🕑
Capture any actions

Condition 1		
Message Body	$\oplus$	
CONDITION	_	
Founds list Keywoon	all and the second s	
Equals list Reywork	as X	(
EXCEPT	os X	(

#### Any

Lets you detect if an IM is sent or received.

If you use this option without any other criteria, Teramind will trigger the rule anytime an IM is sent or received.

#### Message Body

Used for detecting text inside the message body.

You can choose from 'Contains' or 'RegExp' with any text. Or, you can select a Shared List (Text-based or Regular Expressions-based) and

specify a 'Match List' or 'Equals List' condition. Check out the Shared List section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any text/list you do not want to track in the EXCEPT field.

#### **Message Direction**

Lets you detect if the message is being sent or received.

Select either the INCOMING or OUTGOING option.

#### Messaging App

Used to specify the messaging app you want to detect.

You can choose from 'Facebook, 'Skype Web', 'Skype for Business', 'LinkedIn', 'Google Hangouts', 'WhatsApp Web', 'Slack Web', 'Slack', 'Microsoft Team Web' and 'Microsoft Team'. Teramind keeps adding support for new apps so you might see more clients than mentioned here.

Similarly, you can exclude any app(s) you do not want to track in the EXCEPT field.

#### **Contact Name**

?

?

Used to detect the contacts/participants of the IM conversation.

You can choose from 'Contains', 'Equals' or 'RegExp' with any text as conditions.

Similarly, you can exclude any contacts you do not want to track in the EXCEPT field.

Condition 1 Contact name

Start typing...

Ð

	lessaging App ④	
C	IDITION	_
ł	art typing	?
	Facebook	
	Skype Web	?
	Skype for Business	
€	Skype	
	LinkedIn	
	Google Hangouts	
	WhatsApp Web	
	Charle Walk	

Condition 1		
Message Direction		
INCOMING	OUTCOING	0

# 8.8 Browser Plugins (Windows)

Browser Plugins activity lets you detect any installed browser, plugins or extensions, what they are doing or what data they are accessing.

## 8.8.1 Browser Plugins Rule Examples

- Restrict the use of a browser such as an older version of a browser that has security flaws.
- Block user installation browser plugins and extensions by regular users to prevent malware infection and prevent security or privacy breaches.
- Prevent a plugin from utilizing certain permissions such as the ability to access critical proxy settings or user data.

## 8.8.2 Browser Plugins Rule Criteria

The table below shows what criteria the Browser Plugins activity supports and what conditions you can use with them.

Condition 1		
Any		
Capture any actions		

#### Any

Lets you detect if a browser is launched/activated.

If you use this option without any other criteria, Teramind will trigger the rule anytime a plugin is launched or activated.

	Condition 1	
	Browser	
	CONDITION	
	βtart typing	?
	Chrome	
	Opera	?
	Firefox	
€	Internet Explorer	
	All browsers	
-		

#### Browser

Used to specify the browser you want to detect.

You can choose from 'Chrome', 'Opera', 'Firefox', 'Internet Explorer' or 'All Browsers'. Teramind keeps adding support for new browsers so you might see more clients than mentioned here.

Similarly, you can exclude any client(s) you do not want to track in the EXCEPT field.

Condition 1	
Plugin name	
CONDITION	
Contraction Malance and Adabas Associate at	
Contains webex X Adobe Acrobat X	(?)
EXCEPT	0

Condition 1		
Plugin permissions	$\odot$	
CONDITION		
Start typing		
Proxy VPN		
Request		
User data		1
ADD CONDITION		

#### **Plugin Name**

Used to specify the plugin you want to detect.

You can choose from 'Contains', 'RegExp' or exact match with any text as conditions.

Similarly, you can exclude any plugins you do not want to track in the EXCEPT field.

#### **Plugin Permissions**

You can detect what permissions the plugin is using.

You can choose any of these conditions:

- Proxy VPN detects if the plugin is accessing the browser's proxy settings.
- Request detects if the plugin is making a web request. This permission allows a plugin to observe and analyze traffic and intercept, block, or modify web requests.
- User Data detects if the plugin is accessing any user data such as cookies.

Similarly, you can exclude any permission you do not want to track in the EXCEPT field.

## 8.9 Printing (Windows & Mac)

The Printing activity lets you detect print jobs across local or network printers. You can use criteria, such as: the document and printer and number of pages being printed.

## 8.9.1 Printing Rule Examples

- Prevent data leaks over hardcopies by restricting what documents can be printed.
- Warn the user about large print jobs to reduce waste.
- Restrict how many pages can be printed in a certain printer to reduce expense when taking an expensive/color print.
- Implement printer use policies by users/departments. For example, which departments/users can use which printer, how much or what they can print.

## 8.9.2 Printing Rule Criteria

The table below shows what criteria the Printing activity supports and what conditions you can use with them.



On Mac, only the following criteria are supported: *Number of Pages, Document Name*, and *Printer Name*.

Condition 1		
Any		
Capture any actions		

#### Any

Lets you detect if any print job is sent to the printer.

If you use this option without any other criteria, Teramind will trigger the rule anytime a print job is sent to the printer.

Condition 1	
Document name \ominus	
CONDITION	
Contains confidential X Contains sensitive X	?
EV/EDT	
EXCEPT	

#### **Document Name**

Used to specify the document names you want to detect.

You can choose from 'Contains', 'Equals' or 'RegExp' with any text as conditions.

Similarly, you can exclude any plugins you do not want to track in the EXCEPT field.

Condition 1	
Printer name	
CONDITION	
Equals HP OfficeJet 8710 🗙	3
EXCEPT	
Start typing	3

# Printer Name

Used to specify the printers you want to track.

You can choose from 'Contains', 'Equals' or 'RegExp' with any text as conditions.

Similarly, you can exclude any plugins you do not want to track in the EXCEPT field.

Number	of	Pages
--------	----	-------

Used to detect the number of pages of the document being printed.

You can enter a page value in the CONDITION field and use the '=', '>', '<', '>=' logics.

Similarly, you can use the EXCEPT field to specify an exception.

Condition 1		
Number of pages	$\odot$	
CONDITION		
> 50 ×		?
EXCEPT		,
Start typing		?

# 8.10 Networking (Windows & Mac)

The Networking activity lets you detect print jobs across local or network printers. You can use criteria, such as: the document and printer and number of pages being printed.

## 8.10.1 Networking Rule Examples

- Implement network security related rules, for example, restrict outgoing internet traffic from the payment server (to comply with PCI DSS regulation).
- Limit network access such as, disable login via RDP (Remote Desktop Protocol).
- Implement geo-fencing, for example, restrict access to your EU server from the US users.
- Get notified when abnormal network activity (i.e. sudden spike in network traffic) is detected which might indicate an intrusion.
- Using the Local IP criterion, you can detect if a user has established a connection to a peripheral local or VPN network or has changed the network route to bypass your corporate VPN. This might indicate a serious security threat.

## 8.10.2 Networking Rule Criteria

The table below explains what criteria the Networking activity supports and what conditions you can use with them.

On Mac, only the following criteria are supported: *Application Name*, *Remote Host*, *Remote Port*, *Bytes Sent* and *Bytes Received*.



### **Application Name**

Used to specify the app you want to detect sending/receiving the network connection.

You can enter any text in the CONDITION field and choose from 'Contains', 'Equals' or 'Match RegExp'. Or, you can select a Shared List (Textbased or Regular Expressions-based) and specify a 'Match List' or 'Equals' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any applications you do not want to track in the EXCEPT field.

Condition 1		
Remote host	$\oplus$	
CONDITION		
Match list Blackliste	d IPs 🗙	0
Match list Blackliste	d IPs 🗙	0

#### **Remote Host**

Used to specify the network the remote host is connected to.

You can enter a host address (such as: google.com) or an IP address (such as: 10.52.22.1/32) in the CONDITION field or you can select a Shared List (Network-based) and specify a 'Match List' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any host you do not want to track in the EXCEPT field.

?

?

Used to detect the port of the network connection.

You can enter a port value in the CONDITION field and use the '=' logic.

Similarly, you can use the EXCEPT field to specify an exception.

Condition 1		
Bytes sent	$\oplus$	
CONDITION		
> 50000000 🗙		?
EXCEPT		
Start typing		(?

#### **Bytes Sent**

Used to specify the number of bytes sent over the network connection.

You can enter a byte value in the CONDITION field and use the '=', '>' or the '>=' logics.

Similarly, you can use the EXCEPT field to specify an exception.

**Condition 1** 

CONDITION

EXCEPT

= 445 ×

Start typing...

Remote port 🛛 🕣

Condition 1		
Bytes received	$\ominus$	
CONDITION		
>= 3000000 ×		?
EXCEPT		,
Start typing		?

#### **Bytes Received**

Used to specify the number of bytes received over the network connection.

You can enter a byte value in the CONDITION field and use the '=', '>' or the '>=' logics.

Similarly, you can use the EXCEPT field to specify an exception.

#### Local IP

Used to detect local IP addresses.

You can enter an IP address (such as: 182.178.1.2/32) in the CONDITION field or you can select a Shared List (Networkbased) and specify a 'Match List' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any IP you do not want to track in the EXCEPT field.

## 8.11 Registry (Windows)

Condition 1

Start typing...

Ð

Match 182.178.1.2/32 🗙

The Registry-based activity rules let you detect changes to the registry. You can detect registry key, name, value/data and program.

?

?

Registry Editor	ed key – 🗆 ×
File Edit View Favorites Help Computer/HKP1_LOCAL_MACHINES/STEM.CurrentControlSet/Services/LW ubbnic USBHUB3 UBSHUB3 Ubbnici Ubbnici Ubbnici Ubbnici	STOR         Polar           Type         Outor           REG_SZ         (value not set)           REG_DWORD         0x0000014(20)           REG_DWORD         Quadratini (MSESTOR SvcDesc%USB Mass Stor           REG_DWORD         0x0000001(1)
uber (≥)imagidat USST08 (≥) Owners urbohd (≋)Sant USB/HCl UseDats/vc, as+649	REG_DRAMD_S2         VsystemRoorSystem32(driver)USBST0R.SYS           REG_MULT_2         usbatration // mscdatc.inf           REG_MULT_2         usbatration // mscdatc.inf           REG_DWORD         0x0000003 (3)           REG_DWORD         0x0000001 (1)
UserManager Name Usoliv Veskiv Veskiv vdrvorot Veskiefat	a Values
v vnamp - vhf VitualRender	

#### Windows Registry Editor

## 8.11.1 Registry Rule Examples

- Prevent changes to sensitive keys/programs or other items in the registry. For example, network or internet settings, security policies, etc.
- Detect/prevent unauthorized changes of permissions or privileges of files, folders, drives or applications. For example, a malicious user or intruder can change the USBSTOR values to enable the use of external drives compromising security. By monitoring the registry key, you can prevent such changes.
- Detect if a user is trying to install a dangerous or problematic software by monitoring what changes the software is making to the system.

## 8.11.2 Registry Rule Criteria

The table below explains what criteria the Registry activity supports and what conditions you can use with them.

Condition 1	
Key	
CONDITION	
hkey_local_machine\	? ?
Contains hkey_local_machine\	
Equals hkey_local_machine\	(?)
Match glob hkey_local_machine\	
ADD CONDITION	

#### Кеу

You can enter any text in the CONDITION field and choose from 'Contains' or 'Equals' conditions. Or, you can select the 'Match glob' condition and use wildcards such as \*, ?, [abc], [a-z], etc. For example, ?at will match Cat, cat, Bat or bat.

Similarly, you can exclude any key you do not want to track in the EXCEPT field.

Note that <u>actual</u> registry keys differ from what it looks like in the Windows Registry Editor.

For example, "\registry\machine" key
is represented as
"Computer\HKEY\_LOCAL\_MACHINE" on
the Registry Editor. Or, the
"\registry\users" represented as
"Computer\HKEY\_USERS".

Teramind will use the <u>actual</u> keys to match the conditions instead of what's shown on the Windows Registry. For convenience if string condition for the key starts with one of the following, it will be recoded for the actual search accordingly:

• hkey\_current\_user\

- hkcu\
- hkey\_local\_machine\
- hklm\
- hkey\_users\

Key Name <sup>×</sup> ⊕	
CONDITION	
Start	
Contains Start	
Equals Start	
Match glob Start	

#### Name

Used to specify the name of a registry value. For example, the HKEY\_LOCAL\_MACHINE\SYSTEM\Curre ntControlSet\Services\USBSTOR key may contain a value called "Start".

You can enter any text in the CONDITION field and choose from 'Contains' or 'Equals' conditions. Or, you can select the 'Match glob' condition and use wildcards such as \*, ?, [abc], [a-z], etc. For example, ?at will match Cat, cat, Bat or bat.

Similarly, you can exclude any name you do not want to track in the EXCEPT field.

×	
Value 🔶	
ION	
ntains 3	
uals 3	
tch glob 3	
tch glob 3	

#### Value

Used to detect the value of a registry name. Windows registry value can contain a String, Multi-String, Binary, etc. So, enter a value accordingly.

You can enter any text in the CONDITION field and choose from 'Contains' or 'Equals' conditions. Or, you can select the 'Match glob' condition and use wildcards such as \*, ?, [abc], [a-z], etc. For example, ?at will match Cat, cat, Bat or bat.

Similarly, you can exclude any name you do not want to track in the EXCEPT field.

Condition 1	
Key Program × 🕣	
CONDITION	
Contains regedit 🗙 msconfig	?
Contains msconfig	
Equals msconfig	(?
Match glob msconfig	1
ADD CONDITION	

#### Program

Can help identify which application or service is responsible for making the registry changes.

You can enter any text in the CONDITION field and choose from 'Contains' or 'Equals' conditions. Or, you can select the 'Match glob' condition and use wildcards such as \*, ?, [abc], [a-z], etc. For example, ?at will match Cat, cat, Bat or bat.

Similarly, you can exclude any name you do not want to track in the EXCEPT field.

# 8.12 Camera Usage (Windows)

The Camera Usage-based activity rule lets you detect when a camera/webcam is used. You can detect the camera name and the application in which the camera is being used.

## 8.12.1 Camera Usage Rule Examples

- Implement privacy-friendly Webcam recording feature without actually interfering with an employee's camera. For example, create a Camera Usage rule with the RECORD VIDEO action to automatically start recording the screen when camera use is detected so that you can, for example, record meeting sessions.
- Allow webcam usage only in your company's approved apps such as Webex and lock out the user when other apps try to use the camera to reduce security and privacy risks.
- Respect user privacy by only recording a specific camera. For example, record screen sessions of
  remote users by tracking the camera supplied by the company and not record when the user is
  using their personal/built-in webcam.

## 8.12.2 Camera Usage Rule Criteria

The table below explains what criteria the Camera Usage activity supports and what conditions you can use with them.

Conditio	on 1		
Any	<b>(</b> +)		
Capture	any actions		

#### Any

Lets you detect if any camera is turned on in any application.

If you use this option without any other criteria, Teramind will trigger the rule for any camera in any application.





#### **Camera Name**

Used to specify the camera you want to detect. Note: you can find the name of all the available cameras (built-in or external) on the Windows Device Manager, under *Cameras*.

You can enter any text in the CONDITION field and choose from 'Contains', 'Equals' or 'Match RegExp'. Or, you can select a Shared List (Textbased or Regular Expressions-based) and specify a 'Match List' or 'Equals List' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any camera you do not want to track in the EXCEPT field.

#### **Camera Application Name**

Used to specify the application using the camera.

You can enter any text in the CONDITION field and choose from 'Contains', 'Equals' or 'Match RegExp'. Or, you can select a Shared List (Textbased or Regular Expressions-based) and specify a 'Match List' or 'Equals List' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any applications you do not want to track in the EXCEPT field.

Disk drives

# 8.13 Windows Log Event (Windows)

This is a preview feature and might not always produce the expected results. We do not recommend using it for any critical operations.

We also do not recommend using this rule on a shared machine such as a Citrix/RDP server. There are often multiple users - all contributing to a much bigger event log. This might cause performance issues.

If you have any feedback or bug reports about this feature, please send them to <a href="mailto:support@teramind.co">support@teramind.co</a>.

Windows events are all the activities tracked by the OS. These include Applications, System, Security, Hardware, etc. You can see these events on the Windows *Event Viewer*:

🛃 Event Viewer		– 🗆 🗙
File Action View Help		
🗢 🄿 🞽 📰 🚺 🗊		
Event Viewer (Local)	Security Number of events: 28,027 (!) New events available	Actions
<ul> <li>Gustom Views</li> <li>Windows Logs</li> </ul>	Keywords Date and Time ^ Source Event ID Task Category ^	Security 🔺
Application	Audit Success         10/27/2023 4:57:29 PM         Microsoft Wind         4798         User Account M	👩 Open Saved Log
F Security	Audit Success 10/27/2023 4:57:29 PM Microsoft Wind 4738 User Account M	🌱 Create Custom
Setup	Audit Success 10/27/2023.4:57:29.PM Microsoft Wind 4724 User Account M	Import Custom
Forwarded Events	Event 4738, Microsoft Windows security auditing.	Clear Log
> 💾 Applications and Services Lo	General Details	Filter Current Lo
📑 Subscriptions		Properties
	A user account was changed.	All Find
	Subject:	Save All Events
	Security ID: WMWARE2333\Arick	Attack a Tack Te
	Account Domain: WMWARE2333	Auden a lask to
	Lagon ID: 0x2960435	View
	Target Account:	Q Refresh
	Security ID: WMWARE2333\rick Account Name: rick	👔 Help 🕨 🕨
	Account Domain: WMWARE2333	Event 4738, Microsof 🔺
	Changed Attributes:	Event Properties
	SAM Account Name: -	Attach Task To T
	Loo Name: Security	Save Selected Ev
	Source Microsoft Windows security Logaed: 10/27/2023 4:57:29 PM	Copy +
	Event ID: 4738 Task Category: User Account Management	Refresh
	Level: Information Keywords: Audit Success	
	User: N/A Computer: wmware2333.qa.local	In the p
	OpCode: Info	
	More Information: Event Log Online Help	
< >		]

The ability to detect these events is a very powerful tool, because it allows an administrator to identify issues with the computer, discover security gaps and stop potential threats.

The Windows Log Event rule allows you to detect these Windows events.

## 8.13.1 Windows Log Event Rule Examples

- Detect if a user or an app has cleared the audit log (e.g., event ID 1102) that's often used by attackers to cover their footprint.
- Identify failed attempts to login (event ID 4625) by potential hackers.
- Detect unplanned hash access (event ID 4798) that might indicate malicious activity.

- Monitor if scheduled tasks were created (4698) because malwares often create automated tasks to provide persistent access to a compromised system.
- Diagnose errors, system failures, performance issues and other problems.

## 8.13.2 Windows Log Event Rule Criteria

The Windows Log Event activity comes with only one criterion:

ion 1	
Event ID	
ONDITION	
= 1040 × = 1042 ×	0
EXCEPT	
Start typing	?

#### **Event ID**

Lets you specify one or more Windows event IDs.

You can enter numeric values in the CONDITION field and use the '=', '>', the '>=', '<' logics.

Similarly, you can use the EXCEPT field to specify an exception.

# 9 Content Sharing Rules: What Contents Trigger the Rules (Windows)?

Content Sharing rules are used to detect content or text inside an object. The object can be a file, an email or IM chat, data in the clipboard or even any text displayed on the screen. You can use these powerful rules to prevent data exfiltration attempts, such as: block transferring of a file when it contains credit card numbers; warn a user when they attempt to send emails containing sensitive keywords etc.

You can specify the detection criteria for the Content Sharing rules in two places:

- On the special *Content* Tab: This tab allows you to define what makes the content sensitive and specify the data values to look for. This tab is automatically added when you select the *Content Sharing* rule type (in the **General** tab).
- On the selected *Content Type* Tabs: For example, if you selected Clipboard and Emails from the *Type of Content* section (in the **General** tab), you will have two tabs called 'Clipboard' and 'Emails' where you can add the rule conditions and values.

The basic premise of the Content Sharing rule is: you describe the data in the *Content* tab and then you tell Teramind where to look for that data in the *Content Type* Tabs. You need to use both of them for creating a Content Sharing rule.

# 9.1 The Content Tab

This tab allows you to define what makes the content sensitive and specify the values to look for. You need to select at least one *Types of Content,* such as: Clipboard, File etc. to be able to use the Content tab.



You can select from different data definitions depending on what *Types of Content* you have selected in the **General** tab (i.e. Clipboard, Files, Emails, IM).

For example, if you have selected the Clipboard content type, then you will see the 'Clipboard Origin' in the data definition list.

The table below shows what criteria the Content definition supports and what conditions you can use with them.

Definition 1 SELECT WHAT MAKES THIS DATA SENSITIVE				
Data content				?
CONTENT TYPE				
вотн	TEXT	BINARY		
SELECT MATCH TYPE				
Contains			۳	?
SPECIFY VALUE				
$\operatorname{confidential}  imes$	sensitive × d	assified $ imes$	Ð	

вотн	TEXT	BINARY		
SELECT MATCH TYPE				
Equals				?
EQUALS				1
010000010100001000110101001100000011011			•	
AB50787351134	×			

## Data Content

Data Content is a generic criterion that can be used to look for any text or binary data. For example, by using it with the Clipboard, you can detect anything copied on the clipboard.

You can select TEXT, BINARY or BOTH as the CONTENT TYPE.

For SELECT MATCH TYPE, you can choose 'Contains', 'Equals' or 'RegExp' and specify the text or binary values in the bottom field. Use the D button to add multiple values. Or, you can choose 'Match List Member' or 'Equals List Member' as a match type and then select a Shared List (Text-based or Regular Expressions-based) from the SELECT SHARED LIST drop-down menu. Check out the <u>Shared</u> <u>List</u> section on the Teramind User Guide to learn how to create shared lists.

• The *Data Content* criterion can be used with any content types (i.e. Files, Email etc.).

Definition 1 ELECT WHAT MAKES THIS	DATA SENSITIVE
Clipboard Origin	
WEBPAGE	APPLICATION
ELECT MATCH TYPE	
Equals	,
SPECIFY URL	
crm.teramind.co ×	sharepoint X

#### **Clipboard Origin**

Clipboard Origin detects data pasted into the clipboard from a specific webpage or application. By using it you can, for example, build a rule that prevents copy pasting of customer data from your CRM site.

You can select WEBPAGE or APPLICATION as the source of the clipboard copy operation.

For SELECT MATCH TYPE, you can choose 'Contains', 'Equals' or 'RegExp' and specify the text values in the bottom field. Use the button to add multiple values. Or, you can choose 'Match List Member' or 'Equals List

WEBPAGE	
SELECT MATCH TYPE	
Contains	
SPECIFY NAME	
Excel × Word	×

SHARE	CLOUD	URL	]	
SELECT MATCH TYPE	SELECT MATCH TYPE			
Equals		?		
EQUALS				
\\fileserver\shared	I×	D		



SHARE	CLOUD	URL	
SELECT MATCH TYPE			
Matches list member			?
SELECT SHARED LIST			,
Shopping Sites 🗙			

Member' as a match type and then select a Shared List (Text-based or Regular Expressions-based) from the SELECT URL or SELECT NAME drop-down menu. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

• The *Clipboard Origin* criterion can only be used with the Clipboard content type.

#### **File Origin**

File Origin detects file sharing based on its origin or source. It supports local, Cloud and web sharing. By using it you can, for example, build a rule that prevents sharing of files to Cloud drives.

You can select from several sharing options under the SELECT FILE ORIGIN section. SHARE = any type of network shares, CLOUD = sharing over Cloud services, such as, Dropbox and URL = sharing over any websites.

Depending on which origin (SHARE / CLOUD / URL) you selected, you can choose from 'All Share', 'Contains', 'Equals' or 'RegExp' in the SELECT MATCH TYPE field and specify the text values in the bottom field. Use the I button to add multiple values. Or, if available, you can choose the 'Match List Member' or 'Equals List Member' as a match type and then select a Shared List (Network-based) from the SELECT URL or SELECT NAME drop-down menu. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

• The *File Origin* criterion can only be used with the Files content type.

When you select a Cloud provider, it will detect content from the Cloud app (not the web version).
File Prope	rties		,	?
FIELD TYPE				
ANY	STRING	INTEGER	DATE	?
IELD NAME			1	
Tags				?
SELECT MATCH	H TYPE			
Equals			•	
SPECIFY VALUE	E			
internal on	ly ┥ 🗌		Đ	
Business p eneral Secu	lan.docx Prop urity Details	Previous Versions		
Business p eneral Secu Property	lan.docx Prop unity Details Value	perties Previous Versions		^
Business p eneral Secu Property Descriptio Title	lan.docx Prop urity Details Value	perties Previous Versions		~
Business p eneral Secu Property Descriptio Title Subject	lan.docx Prop urity Details Value	perties Previous Versions		
Business p eneral Secu Property Descriptio Title Subject Tags Categories Comments Origin	Ian.docx Prop unity Details Value on internal	oerties Previous Versions only		•
Business p eneral Secu Property Description Title Subject Tags Categories Comments Origin Authors	Ian.docx Prop urity Details Value on intemal	oerties Previous Versions only ad		
Business p eneral Secu Property Description Title Subject Tags Categories Comments Origin Authors Last saved I	Ian.docx Prop unity Details Value on internal by Teramir	oerties Previous Versions only ad		
Business p eneral Secu Property Description Title Subject Tags Categories Comments Origin Authors Last saved I Revision num	Ian.docx Prop unity Details Value on internal by Teramir mber 5 ber	only and		
Business p eneral Secu Property Description Title Subject Tags Categories Comments Origin Authors Last saved I Revision num Program nam Company	Ian.docx Prop unity Details Value on internal by Teramir mber 5 aber me Microso	oerties Previous Versions only nd nd ft Office Word		
Business p eneral Secu Property Description Title Subject Tags Categories Comments Origin Authors Last saved I Revision num Program nam Company Manager Content cree	Ian.docx Prop unity Details Value on internal by Teramin mber 5 aber me Microso	only only only ad		

A File Properties window in Windows Explorer

#### **File Properties**

File Properties detect files based on their meta-tags(also know as 'file property' or 'field'). By using it you can, for example, build a rule that prevents sharing of any documents outside your company that has a *Tags* property containing the string value of 'internal only'. You can create such tags/fields/properties from an application (such as Microsoft Word) or from the Windows Explorer. You can select ANY, STRING, INTEGER or DATE for the FIELD TYPE.

If needed, enter the name of the field/property in the FIELD NAME.

If you select the STRING field type, you can choose from 'Contains', 'Equals' or 'RegExp' in the SELECT MATCH TYPE field and specify the text values to detect in the SPECIFY VALUE field. Use the Dutton to add multiple values. Or, you can choose the 'Match List Member' or 'Equals List Member' as a match type and then select a Shared List from the SELECT URL or SELECT NAME drop-down menu. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

If you choose an INTEGER or DATE value, you can choose one of the '=', '>', '<' logics in the MATCH TYPE field and provide a numeric or date value in the SPECIFY VALUE field.

• The *File Properties* criterion can only be used with the Files content type.



#### **Predefined Classified Data**

Predefined Classified Data detects content based on pre-defined data categories.

There are several types of data categories you can choose from: Financial Data, Health Data, Personally Identifiable Data etc.

The SENSITIVE DATA TO DETECT field will have different menu options depending on what you choose in the SELECT SENSITIVE DATA CATEGORY field. For example, if you choose Financial Data in the previous field, you can choose from 'All credit card numbers', 'SWIFT code' etc. Or, if you choose the Health Data, you can choose from 'Common drug names', 'DNA profile' etc.

If you choose the *Financial Data* from the SELECT SENSITIVE DATA CATEGORY field, then you will see an option: CREDIT CARD DETECTION MODE. This option will let you select the sensitivity of the algorithm to detect credit card numbers. For more information, see the notes under **Adjust the Sensitivity of Credit Card Detection** below.

Finally, you can specify how often a data pattern can appear in the content before the rule is triggered in the TRIGGER ON PATTERN... field.

Check out the <u>Appendix</u> section for a list of all the pre-defined classified data supported in Teramind.

#### Adjusting the Sensitivity of Credit Card Detection

You can detect credit card numbers using the built-in *Predefined Classified Data*. However, the way the algorithm works, it might incorrectly detect specially formatted strings as credit card numbers. For example, it might detect this URL sting, 4.574%201.252.695%202 as a credit card number (e.g., 4574201252695202).

To avoid such false positives, you can adjust the sensitivity of the algorithm using the CREDIT CARD DETECTION MODE option. The option supports three detection modes:

• **Loose:** This is how the algorithm works currently and is the default mode. In this mode, Teramind will detect credit card numbers in text sequences, even if the number is broken up by other characters. For example:

```
4* 4*4*4-44&4% %4-44%44- 4&444
ABcdef44*444*444 444_444&44Xyz
abcdef4%4*4%4#4*4!!4##4_ 4#44_4%4%4&44Xyz
```

• **Medium:** In this mode, Teramind will check sequences with the same delimiter/separator character. Any spaces will be ignored, and several consecutive delimiters will be included in the detection. For example:

```
4%444%%44%44%444%44%44%44
ABcdef4 %%4444%444%%444%%444%%44
abcdef4_4444_4_4_4_4_4444Xyz
```

• Strict: Only standalone credit card expressions will be included. Delimiters must be the same per expression and one of NONE/SPACES/HYPENS delimiters will be allowed. Several consecutive delimiters will not be allowed. For example:

## 9.2 Clipboard

The Clipboard-based behavior rules may not work as expected if you have some other software installed that also tracks clipboard operations.

The Clipboard content type detects text copied to the clipboard from any applications or websites.

## 9.2.1 Clipboard Rule Examples

- Prevent sharing of customer data outside of your CRM site.
- Warn users when they copy social security numbers from an Excel spreadsheet and paste it on an email client like Outlook.
- Prevent data marked as sensitive in the *Predefined Classified Data* list to be pasted on an image application. So that the user cannot later upload the image to bypass your document upload rules.

## 9.2.2 Clipboard Rule Criteria

The table below shows what criteria the Clipboard supports and what conditions you can use with them.

Condition 1	
Any	
Capture any actions	

-	Application Name ③	
	Contains regedit.exe X	?
	Equals list URL	
	Equals list Shopping Sites	?
	Equals list ID documents	
€	Equals list Drug names	
	Equals list Keywords	
	Match list URL	
	Match list Shopping Sites	
	Adadah Kakuta da arawa	

#### Any

Lets you detect the clipboard text in any applications or websites.

() If you use this option without any other criteria, Teramind will trigger the rule anytime a clipboard paste operation is performed in any applications or websites where the content is detected.

#### **Application Name**

Used to specify the applications in which the clipboard action will be detected.

You can choose from 'Contains', 'Equals' or 'Equals List' with any text as conditions. Or, you can select a Shared List (Text-based or Regular Expressions-based) and specify a 'Equals List' or 'Match List' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any applications you do not want to track in the EXCEPT field.

The *Application Name* and the *Webpage URL* criterion cannot be used together in the same condition block.

Condition 1 Webpage Url	
Match list Shopping Sites × Match regexp /*shop*/ ×	?
EXCEPT Contains officesupplies.com X Contains staples.com X Equals list URL	0
€ Equals list ID documents	
Equals list Drug names	_
Equals list Keywords	
Match list URL	
Match list ID documents	
Match list Passport Numbers	•

#### Webpage URL

Used to specify the webpage URL (website address) in which the clipboard action will be detect.

You can enter any text in the CONDITION field and choose from 'Contains', 'Equals' or 'Match RegExp'. Or, you can select a Shared List (Textbased or Regular Expressions-based) and specify a 'Match List' or 'Equals List' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any URLs in the EXCEPT field.

**1** The *Application Name* and the *Webpage URL* criterion cannot be used together in the same condition block.

## 9.3 Files

Files content type works in the same way as it does in the <u>Files Activity rules</u>. However, there are certain file operations that you cannot use in the Content Sharing rules. For example, the *Download* operation or none of the *folder* operations are supported.

Note that not all criteria are available for all file operations. Teramind will automatically show or hide the criteria based on which file operation you select. So, if you select the *Access* or the *Delete* operation, you will only see the *Program* criterion. Some file operation may have additional detection criteria. For example, the *Upload* operation lets you specify the *Upload URL*.

File opera	ition	Ð	
	rogram		
Upload ; L	Jpload	RL	
XCEPT		_	
Start typing.			

Select a file operation by clicking the CONDITION filed.

Click the  $\bigcirc$  button to add a criterion to the operation.

If you choose the 'Any' file operation without any other criteria, Teramind will trigger the rule for any file operation where the content is detected.

### 9.3.1 Files Rule Examples

- Prevent sharing of files that contain sensitive information, such as: Credit Card Numbers, Social Security Numbers, Health Records or your own custom data type.
- Prevent sharing of a file based on certain properties, such as, when a document contains a 'confidential' watermark.
- Create rules based on file origin, such as, stop all network sharing from certain applications.

i

These are some examples of Content Sharing rules for Files. For other examples of the Files rules, check out the Files Activity rule examples.

## 9.3.2 Files Rule Criteria

The table below describes the criteria you can use for the Files sharing rules, and which file operations are supported for each criterion.

Condition 1	
File operation Program $\stackrel{\times}{}$ $\oplus$	
CONDITION	
Contains wordpad.exe ×	?
EXCEPT	
Start typing	?

#### Program

Lets you specify in which program/app the file operation took place.

You can choose from 'Contains', 'Equals', 'Match RegExp' or 'Match Glob'.

Similarly, you can exclude any programs you do not want to track in the EXCEPT field.

#### **Network Host**

a

Used for network-based file operations. Detects the host name of the file operation. For example: http://sharepoint.com, ftp://filevault.net etc.

You can choose from 'Contains', 'Equals', 'All Shares'. Or, you can select a Shared List (Network-based) and specify a 'Match List' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any hosts you do not want to track in the EXCEPT field.

	Condition 1	- 1
	File operation Network host 🎽 🕣	- 1
		- 1
	Equals \\teramind.sharepoint.com ×	ം
	All shares	- 1
	Match list Blacklisted IPs	?
	Match list Safe sites	_
€	Match list EU ACL	- 1
	Match list White Listed IPs	
-		_

This criterion is only supported in the *Write* and *Copy* operations.

File operation Drive ×	
CONDITION Start typing	0
All drives	
All external drives	?

File operation File path $\stackrel{\times}{\to}$	
windows\system32\	

#### Drive

Detects the local, network or external drives.

You can enter a drive name (e.g., 'c') and select that particular drive or choose from 'All Drives' or 'All External Drives' conditions.

#### **File Path**

Used to detect a file path. For example: \windows\system32\.

You can only choose the 'Starts with', condition with any path you enter.

• The path is treated as relative if root is defined, otherwise it's treated as absolute.

	ondition 1	
	File operation Cloud provider $\stackrel{\times}{\leftarrow}$ $\bigcirc$	
	ONDITION	
	Start typing	?
	Any cloud providers	Ĩ.
	Dropbox	?
	Google drive	]
Ð	OneDrive	
	Box	

#### **Cloud Provider**

Used to detect cloud providers.

You can choose from 'All Cloud Providers', 'Dropbox', 'Google Drive', 'OneDrive' or 'Box', etc.

Similarly, you can exclude any provider you do not want to track in the EXCEPT field.

• This criterion is only supported in the *Write* and *Copy* operations.

Condition 1			
File operation	RDP File Transfer ×	$\oplus$	
	NO	YES	?
		1	

#### **RDP File Transfer**

Detects if the file copy operation is done over an RDP (Remote Desktop Protocol) session. This happens when you connect to a remote computer and copy files to/from it.

You can select either YES or NO.

(1) This criterion is only supported in the *Copy* operation

?
0
U

#### **Upload URL**

You can choose from 'Contains', 'Equals' or 'RegExp'. Or, you can select a Shared List and specify a 'Match List' or 'Equals List' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any URLs you do not want to track in the EXCEPT field.

• This criterion is only supported in the *Upload* operation.

## 9.4 Emails

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Emails content type works in the same way as it does in the <u>Email Activity rules</u>. Except, the *Mail Body* criterion is not supported.

Emails lets you detect content sharing over outgoing and incoming emails, draft emails\* and email attachments.

\*Rules on a draft email is trigged when the draft is saved.

## 9.4.1 Emails Rule Examples

- Detect sensitive information like Credit Card Numbers, Social Security Numbers, Health Records or your own custom data types inside attachments and act based on what's detected.
- Detect if an internal memo is shared outside the company.
- For example, warn the user when sending out an email that contains a document containing contacts to prevent data exfiltration or comply with privacy laws.

These are some examples of Content Sharing rules for Emails. For other examples of the Emails rules, check out the Emails Activity rule examples.

## 9.4.2 Emails Rule Criteria

The table below shows what criteria the Emails sharing supports and what conditions you can use with them.

Any O Capture any actions	Conditi	on 1			
Capture any actions	Any	<b>(+)</b>			
	Capture	any actions			

Condition 1				
Mail Subject	Ð			
ONDITION				
Contains importa	ant X	Contains urgent X	Contains official $\times$	
Contains sensitiv	re 🗙	Contains confidential	×	0
XCEPT				
Start typing				6

#### Any

Lets you detect if an email is sent or received.

1 If you use this option without any other criteria, Teramind will trigger the rule anytime an email is sent or received.

#### **Mail Subject**

Used for detecting text inside the mail subject.

You can choose from 'Contains', 'Equals' or 'RegExp' with any text. Or, you can select a Shared List (Text-based or Regular Expressions-based) and specify a 'Match List' or 'Equals List' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any text/list you do not want to track in the EXCEPT field.

Condition 1 Mail CC  CONNITION	
Contains legal X Contains Nethan X	?
EXCEPT Contains teramind.co X	0

#### Mail CC

Detects the CC addresses in an email.

You can choose from 'Contains', 'Equals' or 'RegExp' with any text. Or, you can select a Shared List (Text-based or Regular Expressions-based) and specify a 'Match List' or 'Equals List' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any text/list you do not want to track in the EXCEPT field.

Condition		
Mail To	$\odot$	
CONDITION		
Start typing.		?
XCEPT		
Contains te	amind.co 🗙	0

Condition 1		
Mail From	$\odot$	
CONDITION		
Contains .ch >	Contains .pl X Contains competitor X	?
EXCEPT		
Start typing		?

#### Mail To

Similar to *Mail CC* criterion but used to detect the *Mail To* addresses instead.

#### **Mail From**

Similar to *Mail CC* and *Mail To* criterion but used to detect the *Mail From* addresses instead.

Condition 1		
Mail Direction		
INCOMING	OUTGOING	?

#### **Mail Direction**

Lets you detect if the mail is being sent or received.

Select either the INCOMING or OUTGOING option.

#### **Mail Client**

Used to specify the mail client you want to detect.

You can choose from 'Gmail', 'Outlook Client', 'Outlook Web Client', 'Live.com', 'Yahoo Mail', and 'Yandex Mail'. Teramind keeps adding support for new clients so you might see more clients than mentioned here.

Similarly, you can exclude any client(s) you do not want to track in the EXCEPT field.

Condition 1		
Mail Client	$\odot$	
CONDITION		
Start typing		?
GMail		
Outlook	lient	?
Outlook	veb client	
Live.com		
Yahoo M	ail	
Yandex N	lail	
	CONTINUE	

Condition 1		
Has attachments 🛛 🕀		
NO	YES	?

Condition 1		
Has attachments	Attachment name <sup>×</sup>	
CONDITION		
Extension contains do	Extension contains xls ×	(?)

#### **Has Attachments**

Used to detect if the mail has any attachment.

Select either the YES or NO option.

#### **Attachment Name**

Used to detect the names or extensions for the attached files. File extension are used to identify a file type and usually starts with a '. (dot)'. For example: *.doc, .pdf* etc. Note: you do not need to specify the '.' when entering the extension.

You can choose from 'Contains', 'Equals' or 'RegExp' with any text. Or, you can check for file extensions using one of the 'Extension Contains', 'Extension Equals', 'Extension Does Not Contain' options.

• The Attachment Name criterion is only shown when you have already selected YES for the Has Attachment criterion.

Condition 1	
Mail size	
CONDITION	
> 10000 x	3
EXCEPT	
< 20000 ×	3

#### **Mail Size**

Used to detect the size (in bytes) of the mail.

You can enter a byte value in the CONDITION field and use the '=', '>', '<', '>=' logics.

Similarly, you can use the EXCEPT field to specify an exception.

## 9.5 IM

IM content type works in the same way as it does in the <u>IM Activity rules</u>. Except, the *Message Body* criterion is not supported.

IM lets you detect content sharing over instant messaging conversations and group chats for popular IMs such as: Skype, Slack etc. You can detect both incoming and outgoing messages, detect the participants and search in the message body for keywords or text.

### 9.5.1 IM Rule Examples

- Improve productivity and data security. For example, detect if customer service agents are not responding to complaints or queries coming through your Instant Messaging channels.
- Create rules that warn the HR about angry exchanges, harassments or other potential negative sentiments in chat conversations.
- Detect if a user is targeted for phishing or social engineering online.

These are some examples of Content Sharing rules for IM. For other examples of the IM rules, check out the <u>IM Activity</u> rule examples.

## 9.5.2 IM Rule Criteria

i

The table below shows what criteria the IM sharing supports and what conditions you can use with them.

Con	ndition 1			Any
A	Any 🕤			Lets you detect if an IM is sent or received.
Cap	oture any actions		- 1	
			_	If you use this option without any other criteria, Teramind will trigger the rule anytime an IM is sent or received where the content is detected.
Cond	lition 1			Message Direction
Me	ssage Direction 🕒		- 1	Lets you detect if the message is being sent or
	INCOMING	OUTGOING	?	received.
				Select either the INCOMING or OUTGOING option.
Cond	dition 1			Messaging App
Me	essaging App		- 1	Used to specify the messaging app you want
COND	DITION			to detect.
Start	t typing		(?)	
S	acebook ikype Web	You can choose from 'Facebook, 'S		You can choose from 'Facebook, 'Skype Web',
S	Skype for Business		ļ	'Skype for Business', 'LinkedIn', 'Google
€ s	kype		1.1	Hangouts', 'WhatsApp Web', 'Slack Web'
Li	inkedIn			

WhatsApp Web

المتعد الممال

Team'. Teramind keeps adding support for

new apps so you might see more clients than mentioned here.

Similarly, you can exclude any app(s) you do not want to track in the EXCEPT field.

#### **Contact Name**

Used to detect the contacts/participants of the IM conversation.

You can choose from 'Contains', 'Equals' or 'RegExp' with any text as conditions. Similarly, you can exclude any contacts you do not want to track in the EXCEPT field.

## 9.6 Keystrokes

**Condition 1** 

Start typing...

Contact name 🛛 🕀

A Keystrokes Content Sharing rule works similarly to the <u>Keystrokes Activity</u> rule. Except, it also comes with the <u>Content tab</u> with support for the *Data Content* and *Predefined Classified Data* definitions. This allows you to detect two sets of specialized contents easily.

?

?

A Keystrokes Content Sharing rule will only trigger if both the <u>condition(s)</u> under the *Keystrokes* tab and the <u>definition(s)</u> under the *Content* tabs are met. For example, the rule below will trigger if the user types something like, "creditcard 4233198522419042". But if the user typed just a credit card number, such as "4233198522419042", the rule will not trigger.

Rule Keystrokes content rule Summary Test Policy <sup>Policy</sup>
Category
Content sharing
😫 Users
Apply to Everyone
E: Content
All credit card numbers matches 1 times
📻 Keystrokes
Word typed contains creditcard or contains card
⊗ Actions
Show warning with message Sensitive keystrokes detected.

### 9.6.1 Keystrokes Rule Examples

• Detect sensitive content as they are being typed by a user to proactively prevent potential data leaks.

## 9.6.2 Keystrokes Rule Criteria

The table below shows what criteria the Keystrokes content sharing rules support and what conditions you can use with them.

Condition 1		
Text Typed	$\odot$	
CONDITION	-	
Contains <prt< td=""><td>→  X Contains <shift+prtsc>  X</shift+prtsc></td><td>?</td></prt<>	→  X Contains <shift+prtsc>  X</shift+prtsc>	?
FYCEDT		
LACEPT		

#### **Text Typed**

Used to detect continuous text without any word break. For example, if text typed = "password", the rule will be triggered when the last letter 'd' is typed.

You can enter any text in the CONDITION field and choose the 'Contains' or 'Match RegExp' option. Or, you can select a Shared List (Textbased or Regular Expressions-based) and specify a 'Equals List' or 'Match List' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any text you do not want to detect in the EXCEPT field.

Word typed	
CONDITION	
Contains password X	
Contains password X	

#### Word Typed

Used to detect word typed with breaks. For example, if word typed = "password" the rule will be triggered when you finish typing the word and then type separation key, such as: <Space> or '!' or '.' (dot).

You can enter any text in the CONDITION field and choose the 'Contains' option. Or, you can select a Shared List (Text-based or Regular Expressions-based) and specify a 'Equals List' or 'Match List' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any word you do not want to detect in the EXCEPT field.

#### Difference Between Text Typed and Word Typed

*Text Typed* will detect any partial text while *Word Typed* will detect only full words. For example, if you are looking to detect 'club', and the user typed 'golfclub', *Text Type* will detect it but *Word Typed* will not. If the user typed 'golf club', then both the *Text Typed* and *Word Typed* criteria will detect the keystrokes.

Condit Spec	ion 1 al Key	Турес	1	•												B 20	Categ Activ Users	sory i <b>ty</b> i			
PmSc	× P	ause ;	×											(?		é	Apply Keyst	rokes	eryon	e ed Prr	Scr or
Esc 0		12	13	- 14	15	1	·	17	<b>f</b> 8	19	r10	m	1	2 Pr Scr	int een	Scroll Lock	Pause Break				
	1 2	3	4	6	6	7	8	٩	0		•	Back	space	33 In:	et	Home	Page Up	Num Look		•	
Tab 4	٩	w	E	R	т	ŀ		v	1	0	Р	1	1	I De	lete	End	Page Down	7	8		
Caps	Look 9	A	s	D	F	G	н	J	к	L		•	Enter	*				4	5	8	Ľ
Shift	z	×		•	v	8	N		M	<	>	?	Shift	2		1		1	2	3	
	Alt 70	Wir	-								Min ⊞	AR 1	Ct		-	1	-	0			enter

?
?

#### **Special Key Typed**

You can detect special keys such as the function keys (i.e. F1), PrtScr or key combinations such as <Shift+P>. When you select the *Special Key Typed* criteria and click on the CONDITION field, Teramind will pop-up a virtual keyboard where you can select the special keys.

#### **Application Name**

Specifies which applications will be tracked.

You can enter any text in the CONDITION field and choose from 'Contains', 'Equals' or 'Match RegExp'. Or, you can select a Shared List (Textbased or Regular Expressions-based) and specify a 'Match List' or 'Equals' condition. Check out the <u>Shared List</u> section on the Teramind User Guide to learn how to create shared lists.

Similarly, you can exclude any applications you do not want to track in the EXCEPT field.

• The *Application Name* criterion is only shown when you have already selected a *Text* 

Typed or Word Typed criterion. Also, if you use
this criterion, you cannot use the Webpage
URL criterion in the same condition block.
However, you can use both criteria in separate
condition blocks (i.e. Condition 1 and
Condition 2).

L

Specifies which websites will be tracked. This is same as the *Webpage URL* criterion under the <u>Webpages</u> activity.

The Webpage URL criterion is only shown when you have already selected a *Text Typed* or Word Typed criterion. Also, if you use this criterion, you cannot use the *Application Name* criterion in the same condition block. However, you can use both criteria in separate condition blocks (i.e., *Condition 1* and *Condition 2*).

Condition 1	
Word typed 🛛 Webpage Url 🎽 🕣	
CONDITION	
Contains salesforce.com 🗙	0
Contains salesforce.com 🗙	0
Contains salesforce.com X	0

## 10 Creating Anomaly Rules (On-Premise/Windows)

The Anomaly Rule is only available on Windows for On-Premise deployments.

Anomaly rules are special types of rules that allow you to identify anomalies in a user's behavior by utilizing behavioral baselines. It also allows you to assign risk levels to any anomalous behavior and a notification action to inform admins or managers about the anomaly.

The Anomaly Rules Editor is an intuitive, visual editor where you can create sophisticated behavioralanomaly rules on a single screen.

To access the Anomaly Rules Editor, create a new anomaly rule or edit an existing rule from the **Behavior > Anomaly rules** menu.

## **10.1 Rule Examples**

- Detect when employees spend more than certain percentage of their workhours on unproductive or entertainment sites such as Facebook, YouTube etc.
- Detect if an employee is idling for too long.
- Get notified if an employee's productivity drops by certain rate.
- Get notified when a user sends an unusual number of emails than they normally do in a day-today basis.
- Detect if the file upload activity of a user exceeds some threshold.
- Detect if your network activity suddenly spikes or drops indicating something unusual happening.

## 10.2 Setting Up the Rule Basics

You specify the basic settings for an anomaly rule on the Anomaly Rules Editor's **General Settings** section.

RULE NAME	
Define this rule's name	
Website usage anomaly	
APPLIES TO	
Select the users or groups that will be subject to this rule	
All employees ×	0
EXCLUDING	
Select the users or groups that will be excluded from this rule	
Marketing ×	O
TAGS Optional	
Select or create custom tags to classify this rule	
commendation and franchised as	

You can specify a name for the rule in the RULE NAME field. You can select which users, groups, departments or computers the rule will apply to in the APPLIES TO field. If you select a computer, the rule will apply to all the users on that computer. Optionally, you can exclude anyone you don't want to be included using the EXCLUDING field. You can also specify the rule's tags in the TAGS field. Tags are keywords you can assign to a rule to easily identify it. They are useful in searching for the rule and can also be used as filters on various reports (i.e. Risk or Alerts report).

# 10.3 Detection Criteria - What Behavioral Anomalies Trigger the Rules?

You define the detection criteria under the RULE TRIGGER section of the Anomaly Rules Editor.

RULE TRIGGER					
WHAT TRIGGERS THE RULE	ile will be built und	10			
Webpages					v
CONDITIONS					
Select parameters for th	his rule				
Url	*	Equals	*	youtube.com	*
Time (%)	Ŧ	>	•	20	×
ADD CONDITION					

You can select an action that will trigger the rule and then specify the conditions to evaluate. There are several types of actions you can choose from: Applications, Websites, Emails, Activity, Files, Network etc.

Each action has different conditions you can select from, such as: Time, Name, Anomaly Baseline etc. After you have selected a condition, you can choose a logic, such as: '>', '<', 'Equals' etc. from the middle field. Finally, you specify value(s) to detect in the right-most field.

You can add multiple conditions to an action by clicking the ADD CONDTION button. For example, you can create an anomaly rule using the *URL* condition and a *Time* condition with a *Websites* action to detect if a user spent >20% in 'youtube.com'.

In the next few sections, we will walk you through all the available options for setting detection criteria for each action type.

lect the action which	n the rule will	be built upo	on		
Applications					,
CONDITIONS					
Select paramete	rs for this rule	•			
T: (04)				20	4

#### Time

Detects time spent (%) in an application or website.

Enter a percent value and use the '>' or '>=' logic for the condition.

• This condition is only supported in the *Applications* and *Webpages* actions.

ct the action whit	h the rule will	be built upon		
pplications				•
CONDITIONS				
Select paramete	rs for this rule			

#### Name

Used to specify a name for an application.

Enter a text value and use the 'Equals', 'Contains', 'Does Not Contain' 'Regular Expression Match', or 'Regular Expression Not Match' logic for the condition.

• This condition is only supported in the *Applications* action.

lect the action wh	ich the rule will	be built upon		
Webpages				
CONDITIONS Select parame	ters for this rule	:		
	•	Founds	voutube.com	] .

#### URL

Used to detect the URL of a webpage.

Enter a text value and use the 'Equals', 'Contains', 'Does Not Contain' 'Regular Expression Match', or 'Regular Expression Not Match' logic for the condition.

• This condition is only supported in the *Webpages* action.

#### **Threshold Count**

Sets the threshold count for how many times an activity occurs before triggering the rule. For example, no. of emails sent, no. of download operation, no. documents printed etc.

lect the act	ion which the	rule will b	e built upo	n	
Emails: All					
CONDIT	IONS				
Select p	arameters for	this rule			 

 WHAT TRIGGERS THE RULE

 Select the action which the rule will be built upon

 Activity: Productivity

 CONDITIONS

 Select parameters for this rule

 Productivity

 V

 80

Enter a number value and use the '>' or '>=' logic for the condition.

(1) This condition is supported in all actions except for *Applications* and *Webpages*.

#### Productivity

Detects the productivity level (in percent) of a user. To learn more about how productivity is measured in Teramind, check out the <u>BI</u> <u>Reports > Productivity</u> section on the Teramind User Guide.

Enter a percent value and use the '<', '>' or '>=' logic for the condition.

• This condition is only supported in the *Activity: Productivity* action.

#### Rate

•

Detects the idle rate (in percent) of a user. To learn more about how idle rate is measured in Teramind, check out the <u>BI Reports ></u> <u>Productivity</u> section on the Teramind User Guide.

Enter a percent value and use the '>' or '>=' logic for the condition.

**(1)** This condition is only supported in the *Activity: Idle Rate* action.

ect the action which	the rule will	be built upo	on		
Network: Data in					
CONDITIONS					
Select parameter	s for this rule				
C. (110)	-		-	0	

#### Size

Detects the size (in Mega Bytes) of data in a network operation.

Enter a value in Mega Bytes and use the '>' or '>=' logic for the condition.

-	_			
Rate	•	>	•	10

WHAT TRIGGERS THE RULE

Activity: Idle rate

Select the action which the rule will be built upon

 WHAT TRIGGERS THE RULE

 Select the action which the rule will be built upon

 Files: Upload operation
 ✓

 CONDITIONS

 Select parameters for this rule

 Anomaly baseline
 IS
 Self
 ★

This condition is only supported in the *Network: Data In* and *Network: Data Out* actions.

#### **Anomaly Baseline**

Anomaly Baseline uses algorithm to determine if certain user behavior is outside a baseline. This can be the user's current behavior compared to their past behavior; an employee's behavior compared to their departmental baseline; or an employee's behavior compared to the baseline of the entire organization. Using a baseline lets you, for example, set an anomaly rule to notify you when a user uploads an unusual number of files than they normally do in a day-to-day basis.

A special formula is used to check for anomaly baseline. The formula is:

Anomaly Score = (Current Activity Value - Mean) / Standard Deviation

The Current Activity Value is the amount of activity. For example, the number of File Uploads by a user. The score is measured automatically every hour to determine if it crossed the baseline. The default value of this is 3.5.

As an example, consider a user uploaded [1, 2, 3, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 30] times every day for 15 days. And on the  $16^{th}$  day, the uploaded for 80 times.

In this case, their anomaly score will be: **3.62** = (80-8.125) / 19.82

Which is greater than the default value of 3.5. So, this means the user exceeded the anomaly baseline on the 16<sup>th</sup> day.

The anomaly baseline can be applied to a user's own activities (Self), the activities compared to a department (Department) or the entire organization. If you choose anything

ect the action which th	ie rule will be b	uilt upon	
Files: Upload operatio	n		~
CONDITIONS			
Coloct parameters f	or this rule		

other than Self, then the Anomaly Score of the user activities will be compared against the Score of the Department/Organization for the same period.

#### **Threshold Count**

The anomaly threshold is like the threshold value available in a regular rule action (Advanced Mode). It will trigger the rule action if the total count of Anomaly Baseline violation crosses the set number of threshold. For example:

If you set the threshold to >0 then the rule will be triggered immediately (as soon as the anomaly baseline crosses the first time). As an example, consider a user uploaded [1, 2, 3, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 30] times every day for 15 days. And on the 16<sup>th</sup> day, the uploaded for 80 times. In this case, the user will cross the Anomaly Baseline on the 16<sup>th</sup> day (see Anomaly Baseline above). And as soon as the baseline is crossed, the rule action will be triggered.

However, say, you set the threshold to >1 then the baseline has to be crossed twice before the rule action is triggered. In the above example, if the user keeps uploading the file at the similar rate, the rule action will be triggered in about 32 days or so. Note that, anomaly threshold works for a user's own activities (Self) and not for any department or entire organization.

• This condition is supported in all actions except for *Applications* and *Webpages*.

## **11 Defining Rule Actions**

Actions let you specify what the system will do when a rule is violated. You can warn a user or block them, receive notification, record a video of the desktop etc.

You can assign actions to a rule from the **Actions** tab on the <u>Rules Editor</u> for regular rules. Or, from the **RULE ACTIONS** section on the <u>Anomaly Rules Editor</u> for anomaly rules.

Note that, not all rule categories support all actions. For example, the Agent Schedule only supports the NOTIFY action for most of its schedule violation types except for the *Login* and *Idle* activities. Same way, different Types of Activity / Types of Content may also have their own special actions. For example, Webpages have an action called REDIRECT which is not available for other activity. Also, not all actions are available on all the operation systems. For example, the COMMAND action does not work on the macOS at the moment.



On Mac, only the following actions are supported: *Notify, Block, Warn, Lock Out User.* Some actions might not be supported for all rule criteria. Actions may also behave slightly differently than Windows.

i Note that, <u>Anomaly Rules</u> only support the Notify action.

In some cases, you can use multiple actions as long as they do not conflict with each other. For example, you can use the NOTIFY and BLOCK actions together as they do different things. But you cannot use the BLOCK and LOCK OUT USER actions together because they both prevent the user from completing an activity. The Rules Editor will automatically disable actions that conflict with the currently selected action(s).

There are two ways you can setup actions: Simple Mode and Advanced Mode.

## **11.1 Simple Mode Actions**

Simple Mode is the easiest way to create rules and is recommended for beginners. In the Simple Mode, you can specify actions, but you cannot set any risk thresholds.

General User	Simple Mode	Advanced Mode	Ru Den	le test3 Summary <b>no Policy</b> Policy
Webpages Actions	Select how the system should react	to violations	ľ	Category Activity
Changes saved	NOTIFY	NO	*	Users Apply to Everyone Webpages
	BLOCK	NO	S	Webpage Url equals list Shopping Sites Actions
	LOCK OUT USER	NO		Show warning with message Please use your w ductively
	REDIRECT	NO		
	WARN MESSAGE If present, show the following warring message to Please use your work time more prod USE HTML TEMPLATE	YES O		
	SET USER'S ACTIVE TASK	NO		
	RECORD VIDEO	NO		
	COMMAND	NO		

#### Here are the actions you can use:

11171		YES
ect who should be notified	d upon violation of this policy	

#### 11.1.1 Notify (Windows & Mac)

Teramind will send an email notification to the specified email accounts whenever any user violates the rule.

The <u>ALERT EMAILS LIMIT</u> option (under Settings > Alerts) lets you specify how the notification emails should be handled.

#### 1 Note 1:

You can send the notification to up to 15 email addresses.

#### 1 Note 2 (for the Mac users):

On the Mac, the Notify action is supported for *Webpage Url* and *Webpage Title* criteria.



#### 11.1.2 Block (Windows & Mac)

Blocks the user activity and shows a message.

You can use a HTML template to display the message. See the <u>Customizing the Rule</u> <u>Messages and Alerts</u> section to learn more.

If you are using the HTML template option, you can use simple HTML tags in the message itself. For example, you can put a link in the message to your company policy to refresh the user's knowledge, like this:

Uploading data to personal Cloud drives is prohibited. Please <a href='www.abc.com/policy'>click here</a> to read the policy.

The <u>USER ALERTS THRESHOLD</u> option (under *Settings > Alerts*) lets you specify how long Teramind should wait between multiple alert messages that the user sees.

**Note 1:** The MESSAGE option isn't available for *Content Sharing* rules.

1 Note 2:

In most cases, if you use this action with a *Webpages* rule, then the browser tab for the webpage/URL will be closed immediately after showing the MESSAGE. However, if a rule criterion (e.g., *Idle Time*) causes the rule to trigger after some delay, then the tab will not be closed but the webpage will be replaced by a blank page showing the MESSAGE (if any present) + a pop-up window showing the same MESSAGE.

#### 1 Note 3:

If you use this action with an *Emails* rule, such as block a user from sending an email, then the email will not be sent, and it will be deleted.

#### LOCK OUT USER



YES

MESSAGE present, show the following warning message to the user

You were locked out because you ran a dangerous application

#### 11.1.3 Lock Out User (Windows & Mac)

Shows a warning message to the user and then when they press the OK button, they are locked out of the system. If the user logs back in, they will be logged out automatically. An administrator has to unlock the user for them to be able login again. Check out the **Employee Action Menu section on the** Teramind User Guide for more information on unlocking a user.

#### 1 Note 1:

This action works on the Hidden Agent only. By design, it will not be enforced on the Revealed Agent.

#### 1 Note 2 (for the Mac users):

On the Mac, when the rule is triggered, the user is locked out only once and taken to the login screen. They can log back in. In case the action is configured with an Applications condition, then the last active application specified in the condition will be terminated and the user will be locked out. In case the action is used with a Network-based rule, the network connection that triggered the rule will be closed.

REDIRECT

URI

Applies to Webpages only. Redirects agent to specified URL upon violation

https://www.teramind.co/online-policy

#### 11.1.4 Redirect (Windows)

Redirects the user to a different website when they try to access certain URL(s).

This action is available to Websites-based rules only.



#### 11.1.5 Warn (Windows & Mac)

Warns a user with a message.

You can use a HTML template to display the warning message. See the <u>Customizing the</u> <u>Rule Messages and Alerts</u> section to learn more.

The <u>USER ALERTS THRESHOLD</u> option (under *Settings > Alerts*) lets you specify how long Teramind should wait between multiple alert messages that the user sees.

(mindomo)
You can automatically assign the user a task based on their activities.
The <u>RULE TASK SELECTION ACTION TIMEOUT</u> option (under <i>Settings &gt; Alerts</i> ) lets you

assigning a new task to a user.

Applicable only if the user is using a Hidden Agent.

RECORD VIDEO	YES
MINUTES BEFORE VIOLATION	MINUTES AFTER VIOLATION
5	5

#### 11.1.7 Record Video (Windows)

If video recording is disabled in your Screen monitoring settings, you can still record a video of the rule violation incident with this action. The system will automatically record for the specified number of minutes before and after the incident.

If you don't want to record screen all the time but just before and after a rule violation incident, you can use this action and then turn on the RECORD ONLY WHEN BEHAVIOR RULE

WAS VIOLATED option under *Monitoring* Settings > Monitoring Profile > Screen window.

COMMAND	
When this rule is violated, the following command will be executed on the	
endpoint as the user:	
WINDOWS COMMAND:	
shutdown /s /f /t 0	

#### 11.1.8 Command (Windows)

With this action, you can execute a Windows command automatically when a rule is violated.

This is a powerful action as it allows you to run any application or script on the user's computer. For example, you can force shutdown the pc (shutdown /s /f /t 0), kill a task (taskkill -im ixplore.exe) and do much more.

## **11.2 Advanced Mode Actions**

In the Advanced Mode, you can specify risk thresholds for a rule. You can add multiple thresholds, assign risk levels and take different actions depending on how often the rule is violated. For example, you can set an email rule that sets a Low risk and a Warn action when a user sends 5 emails in a day. However, if they send more than 10 emails a day, then set a Moderate risk level and trigger a Notification action.

The risk levels that you assign in the Advanced Mode are used by Teramind to calculate risk scores (see the <u>Using the Risk Report</u> section to learn more about risk analysis) and can also be used to filter other reports (e.g., <u>BI Reports > Behavior Alerts</u>).



- 1. You can choose the time period for the thresholds such as *Hourly, Daily, Monthly* etc.
- 2. Select/enter the maximum number of alerts that can be triggered for this rule in a day. If more than the specified number of alerts are triggered for this rule in a single day, Teramind will not save further alerts and the alerts will not appear on the <u>BI Reports > Behavior Alerts</u> or other alert logs. If you leave the field empty or use an invalid value (entering a string, a negative number, etc.) then no daily limit will be applied. If you set it to 0, then no alerts for the rule will be generated (the rule will still trigger). Note that, you can set the global maximum alerts per alert type in the <u>Settings > Alerts > MAXIMUM DAILY ALERTS COUNT</u> field.
- The threshold slider lets you adjust the frequency once you have added one or more thresholds. Note that, each small dot 
   on the slider is connected to a *Frequency* field of an action. Changing one will update the other.
- 5. You can use the *Frequency* field to set a frequency.
- 6. Use the *Define a risk level* field to set a risk level. You can choose from: *No Risk, Low, Moderate, High* or *Critical*.

7. Use the small  $\bigcirc$  button (under the *Choose an action* text) to add an action.

## 12 Customizing the Rule Messages and Alerts

You can display a customized alert message to an employee or user in case of a policy/rule violation incident. Warn, Block, and Lock Out User rule actions support displaying custom user messages.

By default, alerts appear on the top-right corner of the user's desktop in a small white box. You can format the alert message using HTML codes. You can also change the default alert template to change the look and feel of the alert box. For example, to match the brand of your company, or to link to your company policy.

## **12.1 The USE HTML TEMPLATE Option**

To enable the use of HTML template, create or edit a rule then follow these steps:

$\equiv \leftarrow$ Block use	er for attempting to	o upload a sen			Ω		*		START TOUR	
General User	Simple Mode	Advanced Mode	Rule B sensiti	llock u: ive file	ser fo	r attempting t loud drive Sur	o upl nmai	oad a 'Y		
Files Actions 1	Select how the system should react to violations			Category Activity						
	NOTIFY			Lisers Apply to Everyone						
	BLOCK	Files     File operation Upload     Upload File name contains sensitive or contains confidentia     Lor contains server or contains classified								
	MESSAGE If present, show the following warning me							onfidentia		
	3 Uploading sensitive files to a	personal Cloud Drive is a com	⊘ Acti	ons						
				Block with message Uploading sensitive files to a personal Cloud Drive is a company policy violation. Please check <a hr<="" td=""></a>						
	LOCK OUT USER	NO	er .</td <td>a&gt; for m</td> <td>ore info</td> <td>rmation.</td> <td>e"&gt;com</td> <td>pany po</td> <td>blicy guide</td>	a> for m	ore info	rmation.	e">com	pany po	blicy guide	

- 1. Go to the rule's **Action** tab.
- 2. Select a rule action, such as Warn/Block/Lock Out User.
- 3. Enter your alert message in the **MESSAGE** field. You can use common HTML tags such as <a></a>, etc. in the message body. For example, you can create a message like:

```
Uploading sensitive files to a personal Cloud Drive is a company policy violation. Please check <a href='https://teramind.co/policy'>company policy guide</a> for more information.
```

4. Turn on the **USE HTML TEMPLATE** option and save the rule. You can also make the HTML template the default option from the alert setting. Check the section below to learn how to do that.

## **12.2 Customizing the HTML Alert Template**

Before using the HTML template, it is a good idea to customize it so that the Alerts messages are visually distinctive and match with any company branding you might have. You can customize the look and feel of your message box by editing the HTML Alert template:

About		Monitoring Ins	erations Settings
Active directory	Alert settings	settings	Stations accords
Igent defaults	, lott oottillige		
lierts			
ogin screen	<ul><li>Automated rules are a crucial part of preferences to maximize your utilizat</li></ul>	the reraming system. Fine tune your alert settings below tion of this feature.	based on your
Security			
erver management	USE HTML USER ALERTS BY DEFAULT	( NO 4	
IMTP	CUSTOM USER ALERT HTML	<style></style>	

- 1. Click the **Gear** 🔯 icon on the top-right corner.
- 2. Select Settings.
- 3. Select the **Alerts** tab.
- 4. To make this template default option for the rules, turn the **USE HTML USER ALERTS BY DEFAULT** option on.
- 5. Enter the HTML code in the **CUSTOM USER ALERT HTML** field.
- 6. Click the **PREVIEW** button to see how the alert will look.
- 7. You can change the **SCREEN LOCATION**, **WIDTH**, **HEIGHT**, etc.

There are two dynamic variables: <code>%ALERT%</code>, <code>%DETAIL%</code> you can use in your message. These variables will then be replaced with the actual alert message and details when triggered. Also, the alert can have HTML buttons such as, the OK and CANCEL buttons.

Here is a sample HTML code:

```
<style>
.customAlert{
font-family: 'Open Sans', sans-serif;
max-width: 480px;
min-width: 250px !important;
min-height: 100px;
padding: 10px;
box-sizing: border-box;
background: #088A68;
background-color: #ddd;
padding: 16px 38px 16px 28px;
box-shadow: 0 3px 6px 0 rgba(0,0,0,.1);
border-radius: 4px;
border: 1px solid #f78d24;
}
.message{
font-size: 14px;
```

```
padding: 5px;
color: #000;
font-size: 14px;
line-height: 20px;
text-align: center;
}
.okButton {
top: 100%;
left: 50%;
width: 50%;
height: 36px;
outline: 0;
border: 0;
background: #f2a654;
color: white;
text-align:center;
}
.okButton:hover{
transition: 0.3s;
cursor: pointer;
}
.alert-title {
clear: both;
font-size: 25px;
padding: 20px 0;
text-align: center;
}
</style>
<div class='customAlert'>
<div class="alert-title">
Policy Violation Detected
</div>
%ALERT%
<div style="text-align:center;">
<button class='okButton' >OK</button>
</div>
</div>
```

And this is how it will look on the user's desktop:

🍐 My Drive - Google Drive	× +				-		×
C -> C + https://drive.	Q Search Drive			0	۲	*	0
+ New	My Drive +					0	
• (a) My Drive							
Computers							
22. Shared with me							0
() Recent		PAR .					
t starred		1					
1 Trash		<u>n</u>	-				
-			bile device				
C Backups		Policy Violation Detected	1 me'				
E Storage		Uploading sensitive files to a personal Cloud Drive is a					
7.8 GB of 15 GB used		company policy violation. Please check <u>company policy guide</u> for more information.					
UPORADE STORAGE		00					
				Uploading 1 item		Y 3	ς.
				Darting upload		CANO	R
				E) sensitive txt			
Search the web and Win	dowe 🖸 🖻 🛤 🖨 🚳 🛙				~ D d	• E	15 AM

Sometimes the alert might not show exactly on the user's computer as it's displayed on the alert Preview. This is due to how the HTML text is rendered by the Teramind Agent. For security reasons, we have restricted the use of some tags and others are rendered a bit differently than a typical browser.

## 12.2.1 Using Images / Icons in the HTML Alert Template

You can use Base64 encoded images in your HTML, for example, to show your company logo, a warning sign, etc. You can, of course, use the <img> tag to load external image files too. But be warned this might not work if the user is offline or the image resource is not accessible from the user's domain. Base64 is better as it will directly inject the image information in the HTML itself without requiring an external file.

Here is an example HTML code for using a warning icon on the alert message (insert it just before the <div class="alert-title">line from the previous example):

```
<img style="width:40px; height:40px;"
src="
+2//+2zP+2mf+2Zv+2M/+2AP9m//9mzP9mmf9mZv9mM/9mAP8z//8zzP8zmf8zZv8zM/8zAP8A//8AzP8Amf8AZv8AM/8zAP8Amf8AZv8AM/8zAP8Amf8AZv8AM/8zAP8Amf8AZv8AM/8zAP8Amf8AZv8AM/8zAP8Amf8AZv8AM/8zAP8Amf8AZv8AM/8zAP8Amf8AZv8AM/8zAP8Amf8AZv8AM/8zAP8Amf8AZv8AM/8zAP8Amf8AZv8AM/8zAP8Amf8AZv8AM/8zAP8Amf8AZv8AM/8zAP8Amf8AZv8AM/8zAP8Amf8AZv8AM/8zAP8Amf8AZv8AM/8zAP8Amf8AZv8AM/8zAP8Amf8AZv8AM/8zAP8Amf8AZv8AM/8zAP8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf8AZv8Amf
AAMz//8z/zMz/mcz/Zsz/M8z/AMzM/8zMzMzMzMzSzMM8zMAMyZ/8yZzMyZmcyZzsyZM8yZAMxm/8xmzMxmmcxmZsxm
M8xmAMwz/8wzzMwzmcwzZswzM8wzAMwA/8wAzMwAmcwAZswAM8wAAJn//5n/zJn/mZn/Zpn/M5n/AJnM/5nMzJnMmZnMZ
pnMM5nMAJmZ/5mZzJmZmZmZZpmZM5mZAJ1m/51mzJ1mmZ1mZp1mM51mAJkz/5kzzJkzmZkzZpkzM5kzAJkA/5kAzJkAMZ
kAZpkAM5kAAGb//2b/zGb/mWb/Zmb/M2b/AGbM/2bMzGbMmWbMZmbMM2bMAGaZ/2aZzGaZmWaZZmaZM2aZAGZm/2ZmzGZ
mmWZmZmZmM2ZmAGYz/2YzzGYzmWYzZMYzM2YZAGYA/2YAZGYAmWYAZmYAM2YAADP//zP/zDP/mTP/ZjP/MZP/ADPM/zPM
zDPMmTPMZjPMMzPMADOZ/zOZzDOZmTOZZjOZMzOZADNm/zNmzDNmmTNmZjNmMzNmADMz/zMzzDMzmTMzZjMzMzADMA/
zMAzDMAmTMAZjMAMZMAAAD//wD/zAD/mQD/ZqD/MwD/AADM/wDMzADMmQDMZqDMMwDMAACZ/wCZzACZmQCZZqCZMwCZAA
Bm/wBmzABmmQBmZqBmMwBmAAAz/wAzzAAzmQAzZqAzMwAzAAAA/wAAzAAAmQAAZqAAMwAAAP93Yf/29P/6+f93YP94Yf9
7Zf9/av+IdP+Rfv+ypf+6rv/Mw//q5v/t6v/u6/94Yv93Yv99aP+AbP+Bbf+EcP+Lef+Whf+ll/+toP+1qf+4rf+7sf/B
qAI/wD/CRxIsKDBgwgTKlzIsKHDhxAjSpxIsWLEbduwocOmkWNHj9ywWRxJsqTJkyhTqlzJsqXLlzBjRtzosabNmzq5bp
PJs6fPn0CDCh1KtChBdDRzK12KE6nRp1CjSp1KtapRplizLrXKtavXr2DDAs2otaxZm2LTq13Lti3Xs3Dj1nRLt67du3g
hyt3LN6/fv4ADWz3Ht/BeboITK17M+CRhw5DlnmtMubLlyiEja5a787Lnz6DXJt1MGm7o06hTFy3Neq/q17BjqyTbuvZZ
dLJz69690LbvuLyDC4/9uzjw4ciTVzbO/Kzy59D9Np9uNrr162qpa9eKGLv371K3i//Hihu8+fM/x6tnir69e5br4yt9T
78+Rfn4c9rfzz9h/v839SdgfwAWONeACLpHm4EFJuggeAxGyNGDFFonoYQVZojchRdq6KFuHHL44YiqhRgiiSh+ZmKI5a
Xo4mIrmvjijInFKCONOOJlo4kt5ujjWjuu2NmPRIYV5IpFJunVkTEq6eRUozEp4pNUFiVlk1VmCVSUV0o4pJZqvsRllxi
GaWZLZMb45ZlskvRYmje2KadFcNo4550SZVZnnHj22dueWPopqEF6AnrioIgOZKidiQ5a6KJTNuonpIxKeuej1HZo6Z2Z
```

VrrpmZh2WuanZ4rgKalZhmpqhKiGueqprSr/qeqrDMZaJa2w2urjrLqaqKuSveb664u8BtvqsD4aKyyyIxarLIDM0vjss tFW60y0/1WbIrbUaovgtdzm5+2H4XY77n7glovfuRWqay677qXrrnzwJjjvu/WCJ++98eVLIL+B+vvevgCvJ3B9BeN7sH 1QBM39M5Ffyb00dMlnRrTPzt919JQNyc1aFVHfXVbVGfN3NaWea012GJ1LbZxZDN29thpd2X22sW1LRjcbMs91dt0/2a3 dHkj/733Wnj37dvfdgleN+FCBW64bYi3tfjhjfek+001RZ4W5ZBb/tLkmLem+VedZ/65SqGLPjpKpZt+0kmpq746na37/ Xp6scs+e0+1u367Q7nrvjtDvfv+00LBCz+8QcUbf7xAySu/fPPO/w599LtPT/3r11+/evbaf85995p/D37jBbMDjz3kaA MAANnqM8476QC8fEr8umNPP+vnrz8A2tTzDb/zM8m91DEOf+zvqPnTxjzeVK4AlmRe7SAHAieYv3uoY14OhJ263JENCno QAPr4n7oyWBF3taODH/QgObzhLhJKxF3q0EcKU3gPBmLLhRFx1z1mOMNwtBCHDXGXO/940MNsXLCBQASeuu5BxBn044dJ JJ66vmHAJn6QHzacVhT9o65wWHGG7oDiFhWlwy+mUB5iHOM/5mUOM37QHhhU4xrddY4qunGC+IijGufljTuq8F57nNc6/ EjBcqByjPcaJCERaMhDJpFfilzk/hqpRyBCUpIHpGQlSQiwSGJyfZpMYwY7+Un9hVKU8yuYJz95yhG6UJWlzF8rXenAhK 0Sk7NEYi1hGUsA5FKXz7N1L33psF3yMpa/BKb0HHZLSSYzXK1k5jCfCc3hXayZi6Qmt453zWlubJkSwyYhtbnN6nWz1+Q sJ/Y2Jk4/pvOGswNZO+/4TniejmTzdGM9tbj/PX16k2T3xOc/QRZQf6KzZd5LWT7NuE97Rq51C/1iQx1KOJ1F1IoT5Sf5 IDrQlG2UoweV2UcV2lGP/o1znbpoEzNK0bbpTKVEZGlLwYbS1JbUpHLzGUx5KNOZSq2mNq2pznKq05silGxADSoyj5a2o +10hj1V50+datSjXo1pT01hVKVatKSKKqsf3KpPaQY1sHpQrGM1mVe/WlWRJq1qZi1k1roK17a61WdZi+sE0cpVtebVrn d9mdf0ykix0WytqyJsJg0r2MEC1mYrQ2xiHxvYjJ1NsZNcm8gkO1mhek1ka80sKeGWMc52dqmapRjcRCtLukHMtKctJV9 RCS+6/7EWlHk7GGxjy8rcCixvtyWmb+u1W97ism/+6ltwZ+vIcxXXuM4UXL0Et1zDseu50M2mdc9luOpuV1vYze44Fzeu xXn3u8wKr3jd+ThtPe686P2VetdLT8pFi3LwjW+s5ktffWIOWZjLr35Jxd/+MrRzv+qcgAdsqQIbWKKhs1XoFszgRDn4w RgtXatKR+EKC+rCGF5p6kiVug57GE8gDnFMW7ep1pn4xHJKsYp5GjtJxe7FMAbVjSmLXETVDsc5BpOMXwVk6Qoqd0U2Mo gRzGMlc4rJng3xpXgXZCe3KXhVtrKZipflHl8Zy00mL5uS12Uvb5nLYRazg8ic5iD/gP95Zdbyk6AXZzPfCs5tVj0Vpld nOzuJz3nWM7AAHeXi3ZnOgRY0kbLXZzkny3qNdrS0GJ1oReeIe5GWtIu+12k/T5rShYbemz1d6fY+GtOlNvWnUR1qUeNI fNjotJsdBOtYp1rVm4a1rGc9oFrbutXTe5Gvd81r/vj616it9baGfev/jujYyJYttEkEbWJbmtbVbrazNQTtaPe229zut rWv3WtxaxvBFOo2R8ZNbmOrm93tRpi6vX3ceT9o3vSOLr7thW94x9s9+M63dqNe7n6fW8MCCrjAx6vwfwXc37iW98MPPm 8 ZEA3+tGhA3Se13vo2Gl600srdaQ3XelLT47Up+7frUdn61w/sNeZvnWsR1g5YA87hMHOMrCb/ezDGdPNM548raf97XDn = 100%jdznLnKQ1yztas8w4EWi98HjPe+5GXzqRaz43ey96HR3deIVf3iNw+bxkO+7z41G+cgH+/KKd7q+Q8/5zmt+56/BfNI9/ /mnhV70A3894U+j+tWfHvWokT3sGa572ut+8sv+/Wl+D3waEx80tb86670HNeJXPneeSb7yb990zxB/90K/vmWkP/2V93 451y8+/1TDP6HGcL/7NA8/Zcgvfq2yf/aJOT/6e65+GLH/+YaO//vxHzzFvL/9YfV/80cX8id1/Nd/gSGAB4iABKiAy+d rgCGA2KAOw7QPEjiAdVGAW9cNw5QPF8g3Eqg+sXQPF4iBbaGBYIcPvVQPJagjJVgPvfQ0JWiCaoGCYPcOsdQP7DCDhTOD 3YBCmESCM0iDYWGDaScOpRRGQ0gXQ8gR6sAPmARHTUiEXmGEgIeDi6QN7TCFVNgVXMgR9LBI8PCFXVgVVjh458BEd0QPZ FiGVNGG2NAN4+BGCwSHaXGGrxcP+ENE2SCDcOiGUfGHHgEOavhB2kAP6yCI5fcVePh77v8wDkC4P+ZADyKkiIB4FZZYE+ cADu8wD/RAD/LwDluYiQfSFY1IilMIOqi4ilphiqz4iuzxFrA4i/phhrR4i2hRFbi4ix5BFafIixL4hsDIi1Lxi8MoqOF xjMT4FMaojP8HFc4IjEbRjNH4fphYjbtIFNgojUOxjdwIFN74jbQTjtk4juSIi+B4jsvIE+oojjHRju7oEvAYj2gyj+so j/Z4j/WYj+W4j/yIjvj4j/1I0gKpj6hTkAb5QAiZkKwzi+kgDhAZkRI5kRRZkRHpQ7RIP7S4gCmnkbPIkR0pQLcIkn4nk hv5qN83ErtIkiWpkrjIki15HyuJkikpky9JkzX/mU08CJMxqZMzSX2K0BHDyJM9yTvASJRFuRALcpNAGZR6MZQ4eXwOQY 002JROGUTHiJQhqZTKqJVJiTxdGZXa9ydZKZZSyUVhaZWZqBDR6JVbeRBtaZZnCZbO6JZvSRDVaJdfmZdyOZdkFJdqmYk 9wjx8GZhrWRDYqJc9uY2KeXJ4mZh9OZaEWZjep4yPWY3dEA+auZmc2Zme+ZmbOYbbOBBUuZCwOBBDZpr19w+pqZpj6Zqm OZmwKZCyOZv8WJu2aY//kEW5CY+s2Zv/+A+lCZxBSZy3aZz50Ef16ZvLOY/K2Zzn+JzQGY7S0Z2jaZ3RiZ3kWJ3a6Yzc2 Z3H+J3q/ymN44mN4lme6Iie0Xie6jmLuNmet/ie8Ome7DmfpNqZ9rmM+YmL+LmfGfmX/smKlxmqqziqBCqYBnqqVwmqCi qIdNmgDoqYELqgArGUE8qFUnShZJihGoqhB9GaHVpxHBqiLYiWJFqiJnqiz0iWKrqibNmiLsqiMCqZCzGcM/o9D3GjNMo QNqqjzbMmSuSjpOeTQqp43UGkRTp2L5SkbFdCTFp1TvqkuKdBUvqVSFq191YSFoq1I3cSXDpvQOqSX9q1Hjmm4qMfZqpr /pimrYembCp5AfmmDAgTcjqnMMGbdbptPAGieQopQdGnlucTfAqoaTKY5kiodBOmh4qoYoVjqELBqKmVjJAKNVYxqUzjh ZZqM4pajJlqVarYqQ7jqF6xpaBKSzVYqs3lOKgaLpsKJKv6LIDRo69aIK2agbNqKqL6F7J6q9uRq3PDq3sSGrsKrLUxGS VCrDFypKWHrAbiq8vKrOrhrLxBqtD6G7X6HNRarZGBIOigJ9wwrF/KJcbKFgEBADs="/>

And here is how it will look:



There are many online resources available that can convert an image to Base64. You can search for the term 'base64 encoder' to find these resources.

## **12.2.2 Configuring Other Alert Options**

You can configure other settings such as alert delay, the maximum number of alerts shown, alert time out, etc. from the Alert settings screen. The table below explains what those settings mean and when to use them:

ALERT EMAILS LIMIT	The <u>Notify</u> action sends out an email notification to the selected user(s) when a rule is violated. This setting defines the threshold where the system will group these notification alerts into a single email. The system will send these many identical alert emails, and then it will group them into an email digest. If set to 0, Teramind will send each notification alert as a separate email.
USER ALERTS THRESHOLD	This setting applies to rules with a <u>Warn</u> or <u>Block</u> action. The threshold sets the minimum time, in seconds, to wait between alerts that the user sees. If set to 0, users will see all alerts they violate, regardless of the frequency.
LOG ALERTS THRESHOLD	LOG ALERT THRESHOLD sets the minimum time, in seconds, to wait between logging alerts to the Teramind system. If set to 0, it will not limit the number of alerts that are logged.
MAXIMUM DAILY ALERTS COUNT	MAXIMUM DAILY ALERTS COUNT limits the total number of alerts that get logged by Teramind on a daily basis per alert type. You can also set the alert limit at the rule level from the rule's
	Advanced Mode action panel (Choose maximum number of saved alerts per day).
--------------------------------------	---
ULE TASK SELECTION ACTION TIMEOUT	You can build rules in Teramind to set a user's task based on their activity. RULE TASK SELECTION ACTION TIMEOUT (SECONDS) defines the time out when switching tasks. If the user switches activity and remains in the new activity for the defined seconds, the rule will be re-evaluated.

# 13 Using the Prebuilt Rule-Templates

# **13.1.1 Using the Regular Rule Templates**

When creating a new rule, you can choose from a list of pre-built templates. Click the **CHOOSE A TEMPLATE** pull-down menu to choose a template on the Rules Editor's *General* tab.

Create a New Rule or Load a Template	
NAME THIS RULE	
DESCRIPTION (OPTIONAL)	
CHOOSE A TEMPLATE	
No template, start with a clean slate	• ?

Teramind has many templates for Data Loss Prevention, Email, Applications, Websites, File Operations etc. Once you select a template, the rest of the rule's tabs will be automatically populated with preconfigured settings and sample data. You can, of course, change them to meet your needs.

Check out the <u>Appendix</u> section for a list of all the prebuilt regular rule templates available in Teramind.

# **13.1.2 Using Anomaly Rule Templates**

When creating a new anomaly rule, you can choose from a list of pre-built templates. Click the **USE TEMPLATE** button, then choose a template from the **TEMPLATE TO USE** pull-down menu to choose a template.

Create Anomaly Rule		×
CREATE NEW RULE	USE TEMPLATE	
TEMPLATE TO USE Select template		•

Teramind comes with many anomaly rules templates. You can choose from a list of types such as: Applications, Emails, File Operations etc.

Check out the <u>Appendix</u> section for a list of all the prebuilt anomaly rule templates available in Teramind.

# 14 Enforcing the Rules

# **14.1 Automatic Enforcement**

When you create a new rule, by default it's automatically turned on. You can edit a rule even when it's running. Any changes you make to the rule will be enforced immediately if the user is online and connected to the Teramind server or as soon as they connect.



It's always a good idea to test a rule when you create or edit it to see if it's working as intended. You can do so by checking the <u>Alerts Report</u>.

Rules are enforced depending on what type of Teramind Agent is installed on the user's computer:

# If the user is using a Stealth Agent:

- **Regular Rules:** The rule will be enforced according to any <u>Rule Schedule</u> you have setup or for 24/7 if no such schedule exists. The rule will be enforced even if the user is offline or disconnected from the Teramind server.
- Anomaly Rules: Since an anomaly rule does not have a schedule, it will run for 24/7.

# If the user is using a Revealed Agent:

- **Regular Rules:** The rule will only be enforced when the user has logged in to the Agent and clicked the **Start** button to begin their shift. The rule will still follow any <u>Rule Schedule</u> you have setup. The rule will continue to be enforced until the user clicks the **Stop** button to end their shift or as soon as the rule schedule has ended whichever comes first.
- Anomaly Rules: Since an anomaly rule does not have a schedule, it will run until the user clicks the **Stop** button on the Revealed Agent.

# **14.2 Manual Enforcement**

You can manually turn a rule on/off from the Teramind Dashboard. To do so:

• **Regular Rules:** You can manually control the rules from the *Behavior Policies* screen. To access the *Behavior Policies* screen, click the **BEHAVIOR** > **Policies** menu.

ensitive Data	3 rules	Everyone	OFF
Detect credit card numbers	Category: Content sharing	¢	OFF (j) :
Office Document: Confidential Watermark	Category: Content sharing	$\otimes$	<b>ON</b> () :
Personal Data (SSN and Date of Birth)	Category: Content sharing	$\otimes$	<b>ON</b> (i) :

Use the ON/OFF button next to a rule's name to turn it on or off. You can also use the ON/OFF button next to the Policy's name for which the rule is a part of. If you turn off the policy, all rules under the policy will be deactivated even if the individual rules are turned on. If the policy is turned on, the rules that has the ON status will be activated and the OFF rules will remain inactive.

• Anomaly Rules: The only way to turn off an anomaly rule is to remove it from the Anomaly rules screen. To access the Anomaly rules screen, click the **BEHAVIOR** > Anomaly rules menu.

RULES	CONDITIONS	APPLIES TO	ACTION	15	
Webpages Anomalies	Webpages Time (%) > 7 <sub>Notify</sub>	All employees	1	٦	×
File upload anomaly	Files: Web-upload operation Threshold count > 3 Notify	All employees	1	Ō	×

Click the X button besides an anomaly rule to remove it.

# **15 Investigating the Rule Violation Incidents**

There are multiple ways you can investigate rule violation incidents on Teramind.

# **15.1 Using the Behavioral Alerts Report**

This is your primary source to view all rule violation incidents. You can use the Alerts report to view a list of rule violation incidents with all the necessary details, such as: the date/time the incident happened, the user or activity involved and other pertinent information. You can also view a session recording of an alert, export the alerts report or schedule it for auto delivery to selected email addresses.

You can access the Alerts report from the **BI Reports > Behavior Alerts** menu, under the **Basic** tab.

						Q 🚺 The Administrator 🔅 🛇 START TOUR EXPLAIN THIS I
n 10, 2021 - Jan 16,	2021 🗃					Last sync time: 2021-01-13 03:21 EXPORT • CLONE
sic 🗘 🗑 Risk 🕇						
Tineine			O B Hour			0 I Top Employees 0 I
1,500 500 0 0 0 0 0 12 PM	Mon 11 12 754	Tue 12 12	The Wed 13		8 8 7 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	20         Paraconcentration           21         Paraconcentration           25         Paraconcentration           26         Paraconcentration           27         Paraconcentration           28         Paraconcentration           29         Paraconcentration           20         Parac
Timestamp* 4	Employee	Computer	Pelicy	Role	Action	Description
2021-01-13 03:20:02-		IN-035KHOREPER	Productive Tasks	Emailing task	Notify, SwitchTask	Visited email - thomas cook - outlook - google chrome (https://outlook.live.com/mail/0/inbox)
2021-01-13 03:19:41-	tigate Thomas Cook	N-03340-IOREPER	Productive Tasks	Social Media	Notify SwitchTask	Visited Instagram (https://www.instagram.com).
2021-01-13 03:18:01-	record	N-035KHORSPER	Productive Tasks	Emailing task	Notify SwitchTask	Visited Continue - Google Chrome https://login.live.com/login.srf?wa=wsignin1.0&rpsnv=13&ct=1610
2021-01-13 03:17:40- D Copy	Cbile	C N-035KHORBPER	Productive Tasks	Social Media	Notify SwitchTask	Voited Instagram - Google Ohrome (https://https://www.instagram.com)
CSV	sport	N-035KHORBPER	Productive Tasks	Social Media	Notify, SwitchTask	Visited Home / Twitter - Google Chrome (https://twitter.com/home).
021-01-13 03:15:42-05:00	Elix Hart	WIN-035KHOREPER	HIPAA Compliance	PII and disease name	Block	Sent an email with attachments: clusers/ehart/documents/the best noise canceling headphone.odp.
2021-01-13 03 15 42-05:00	Dis Hart	WIN-035KHOR8PER	HIRAA Compliance	Email content containing ICD-10 code, drug & dis	Block	Sent an email with attachments: clusers/ehart/documents/the best noise canceling headphone.odp.
021-01-13 08:15:42-05:00	Bis Hart	WIN-035KHORBPER	UBA	Sample content rule	Warn	Sent an email with attachments: clusers/ehart/documents/the best noise canceling headphone.odp.
021-01-13 03:15:10-05:00	Aymon Cousteeu	WIN-035KHOREPER	Productive Tasks	Social Media	Notify, SwitchTask	Visited (17) feed   linkedin (https://www.linkedin.com/feed).
2021-01-13 03:14:50-05:00	Elis Hart	WW-035KHORBPER	Productive Tasks	Emailing task	Notify, SwitchTask	Visited mail - ellis hart - outlook - google chrome (https://outlook.live.com/mail/0/inbox)
2021-01-13 03:14:48-05:00	Mohamed Krogh	WIN-035KHORBPER	Productive Tasks	Social Media	Notify, SwitchTask	Visited (48) pinterest (https://www.pinterest.com).
2021-01-13 03:13:45-05:00	Jackson Gollan	WIN-035KHORBPER	Productive Tasks	Emailing task	Notify, SwitchTask	Used the application thunderbird.exe.
021-01-13 03:13:43-05:00	Cheryl Guillen	WIN-035KHORBPER	Productive Tasks	Communication task	Notify, SwitchTesk	Used the application slack.exe
2021-01-13 03:13:41-05:00	Tia Sanders	WIN-035KHOREPER	Productive Tasks	Communication task	Notify, SwitchTask	Used the application slack.exe
2021-01-13 03:13:35-05:00	Jackson Gollan	WIN-035KHOREPER	Productive Tasks	Communication task	Notify, SwitchTask	Used the application slack.exe.
	Fang Shen	WIN-035KHOREPER	Productive Tasks	Communication task	Notify, SwitchTask	Used the application stack.exe.
2021-01-13 03:13:29-05:00				A	No. 6 345.4	and the second se
2021-01-13 03:13:26-05:00	Michelle Hurley	WIN-035KHOREPER	Productive Tasks	Communication task	Notity, Switchlask	Used the apprication stack.exe.

For more information on the Alerts report and to learn how to use its different features, check out the <u>BI</u> <u>Reports > Behavior Alerts</u> section on the Teramind User Guide.

# 15.1.1 Using the BI Report's Investigate / View Record Feature

On the Behavior Alerts screen, you will see a table/grid widget. If you right-click on row, you will see a pop-up menu:

tii 1.0 5	0	nu 08 Fri 09 Su	Tue- Wed- Thu- Fri- Sat- O e c		89- 20- 21- 22- 23-	Donald Jurkison- Mohamed Kogn- Chery Builton- Jackson Rolan- Ta Sanders- 1
	Timestamp* ↓ Employee	Computer	Policy	Rule	Action	Description
	2021-04-10 02:03-	WIN-035KHOR8PER	Productive Tasks	Communication task	SwitchTask	Used the application slack.exe.
-	2021-04-10 02:01:	WIN-035KHOR8PER	Productive Tasks	Communication task	SwitchTask	Used the application slack.exe.
	2021-04-10 01:59:	WIN-035KHOR8PER	Productive Tasks	Communication task	SwitchTask	Used the application slack.exe.
-	2021-04-10 01:57: Copy Ctrl+0	WIN-035KHOR8PER	Productive Tasks	Communication task	SwitchTask	Used the application slack.exe.
	2021-04-10 01:55:49-04:00 Thomas Cook	WIN-035KHOR8PER	Demo Policy	Unproductive movie streaming sites	Block	Visited the url http://www.google.com/
-	2021-04-10 01:55:27-04:00 Cheryl Guillen	WIN-035KHOR8PER	Productive Tasks	Communication task	SwitchTask	Used the application slack.exe.
-	2021-04-10 01:54:46-04:00 Mohamed Krogh	WIN-035KHOR8PER	Etiquette	Job search	Warn	Visited Monster Jobs - Job Search, Care

 Click the Investigate option from the pop-up menu to view the Employee's Activity Monitoring <u>Report</u> report. From that report, you can see all the alerts for the employee under the Alerts tab. 2. Click the **View record** option to view the <u>Session Recording</u> of the employee at the selected timestamp.

# 15.2 Using the Alerts Log Widget

You can also add an Alerts Log widget to your dashboard. The widget allows you to view the most recent alerts in real-time or for the selected date range. You can add the Alerts Log widget to a dashboard by clicking the **ADD WIDGETS** button on the **Dashboard**'s screen.

	Uploaded c:\users\lgross\appdata\local\microsoft\windows\inetcache\low\ie\shwft5vo\ag.core[1].js to www.foxnews.com	
ul 31	James Gabbert	
1	action Notify, Switch task	
	Visited Facebook - Google Chrome (https://www.facebook.com).	
ul 31	Kate Sparrow	
1	action Block, Notify	
	Communicated with Somebody through IM.	
ul 31	Kate Sparrow	
1	action Block	
	Communicated with Somebody through IM.	

For more information on the Widgets and to learn how to use them, check out the <u>Widgets</u> sections on the Teramind User Guide.

# 15.3 Using the Session Player

Session Player allows you to view a user's desktop in live view or history playback mode. You can precisely locate when a rule violation incident occurred, check out all the alert notifications the user received and investigate the trail of user activities leading up to the incident. If the user is online, you can take remote control of their computer or freeze their inputs to prevent further incidents.

If Audio recording is enabled, you can also hear recordings of both sound outputs and inputs (speakers/line-out, microphone/line-in). Finally, you can take snapshots of the user's desktop, forward the recordings to select email addresses or download them as MP4 files.

You can access the Session Player from the <u>BI Reports</u>, from the <u>Employee's Activity Monitoring Report</u> or even from the <u>Dashboards</u>. Click the **Movie Camera** icon, wherever you see it, to access the Session Player.

Putsy Smith - Microsoft Edge			- a x
History view: Patsy Smith			20025,2013 Live QFH - 🔯 📥 🐥 💭
indagram × ← → C & https://drive.go	My Drive - Coogle Drive x +  ogle.com/drive/inv-drive	Þ -	Notifications Activities 🔺 ۹
🛆 Drive	Q, Search Drive My Drive ~	- ©¢ ⊞	18.04.32 Violated Cloud Upload Policy 17.26.26 Violated PCI-DSS 3.3 - Mask the PAN violation
May Carlye     Decompositions	Gulck Access	Cales Target Tracking	17:10:28 Violated PCI-DS\$ 3.3 - Mask the PAN violation 17:03:15 Violated Visiting pambling sites Visited under ground casino - Google'da Ar
thared with me     O Recent     thared     Stared	Rule Violation Recorded      Market Stees do:     Top which if there port     Courd Upload Policy Violated     Company poly restricts upload of there to Cloud     Company poly restricts upload of there to Cloud	e billings vitex e billings vitex month You edited this month	
Trash	Folders Contem	Name ↓	
5.0 Blouge	First	2 uploads complete	•
Get Blackup and Sync for <sup>×</sup> Windows		sales associate 1.rtf	•
II «жин» —			x 17:58:15 

For more information on the Session Player and to learn how to use its different features, check out the <u>Session Player</u> section on the Teramind User Guide.

# 15.4 Using the Risk Report

The Risk report allows you to analyze the impact of rule violation incidents and the risks they pose to your organization. The report shows top risky rules, users, applications and websites. You can drill-down each risk category to further investigate what caused the risk level to change. You can also plot the risk trend by department, severity, number of violations, tag etc. Unique risk scores help you identify high-risk rules or users so that plans can be developed for treating the risks.

You can access the Alerts report from the BI Reports > Behavior Alerts menu, under the Risk tab.



For more information on the Risk report and to learn how to use its different features, check out the <u>BI</u> <u>Reports > Behavior Alerts</u> section on the Teramind User Guide.

# 15.5 Using the Risk Widget

You can also add a Risk widget to your dashboard. The widget allows you to view the most recent risk trend and risk scores for users, activities or rules in real-time or for the selected date range. You can add the Risk widget to a dashboard by clicking the **ADD WIDGETS** button on the **Dashboard**'s screen.

RISK WIDGET		<b>\$</b>
RULE VIOLATED	CHANGE	RISK SCORE 🔻
PII and drug name	•	2136
PII and disease name	•	1864
PII and DNA profile	•	1842
Upload files containing ICD-10 code, drug & disease names	-	1756
Using anonymous browser	•	540
Personal Data (SSN and Date of Birth)	NEW	60
IM content containing PII and ICD-10 code, drug & disease names	•	44

For more information on the Widgets and to learn how to use them, check out the <u>Widgets</u> sections on the Teramind User Guide.

# 16 Sample Rules Walkthrough

# 16.1 Rule Sample 1: User logs in during off hours

# 16.1.1 Rule Summary



This example shows how you can create an Agent Schedule rule to detect a user attempting to login during off hours.

# 16.1.2 Setting up the Rule

Schedule Actions	Rule Name
	Abnormal login time
	DESCRIPTION (OPTIONAL)
	Rule Category SELECT THE TYPE OF RULE
	Rule Category SELECT THE TYPE OF RULE Agent schedule

General User	User selection	
schedule Actions	INHERIT POLICY SETTINGS	NO
	APPLY RULE TO	
	External Contractors X	
	EXCLUDE FROM RULE	

# General

On the first tab, General, we assigned a name for the rule and a description.

We have chosen an Agent Schedule rule type since we are looking to detect a user's login time.

#### To learn more:

- <u>Agent Schedule Rules: What Schedule</u> <u>Violations Can You Detect?</u>
- <u>Understanding Common Rule Elements</u> names, description, tags, schedule etc.

# User

For the users, we choose to manually add the users (by turning off the INHERIT POLICY SETTINGS). We also decided to apply this rule to external contractors only. To do so, we first created a department named 'External Contractors' and then edited the selected users' profiles and assigned them to this department.

#### To learn more:

Defining Users

- <u>Creating/Editing Departments</u>
- Creating/Editing Employee Profiles

General User Schedule	Describe the schedule violations. You can configure schedules for each employee here
Actions	Definition 1
	SELECT TYPE OF SCHEDULE VIOLATION
	Login •
	RESTRICTED IPS
	Start typing
	Apply on screen unlock
	EXCLUDED DAYS
	Sun Mon Tue Wed Thu Fri Sat

Schedule <mark>Actions</mark>	ſ	NOTIFY Select who should be notified upon violation of this Shelby Hunter X	YES O
		BLOCK	NO
		WARN	YES
		MESSAGE If present, show the following warning message to the	ne user
		Abnormal login hour recorded	

#### Schedule

We have selected the Login schedule violation type so that we can monitor the login attempts.

We have also setup two time slots that will be considered as off-hours (12am-8am and 6pm-12am). Any attempt to login in these two periods will trigger the rule.

If you wanted, you could setup additional options such as restricted IPs or exclude any days you don't want to monitor.

#### To learn more:

• <u>Rule Criteria</u> – for Agent Schedule rules

#### Actions

Finally, for the last tab, 'Actions', we have selected to use a NOTIFY action to notify the security admin and WARN action to show a warning to the offending user. For this last action, we decided to use the HTML template option to make the alert prominent to the user.

#### To learn more:

- Defining Rule Actions
- Customizing the Rules Messages and Alerts

# 16.1.3 Viewing the Rule Alerts

Click **BI Reports** > **Behavior Alerts** then select the **Basic** tab to view a report of all rule violation alerts and trends. The 'Grid Widget' located below the screen shows a list of all the alerts:

				Q			START TOUR	EXPLAIN THIS PAGE
Aug 1, 2019 - Aug 31, 2019 🛗							EXPORT -	CLONE <b>T</b>
Basic 🌣 🗑   Risk   🕂								
Timeline	• * T	Hourly		Ē	$\mathbf{\Phi}\times$	Top Employees		🖻 🌣 🛛
1.500 500 0 Apr 04 Mon 05 Tue 05 Wed 07 Thu 03 F	109 Set 10	Sun- Tue- Thu- Fin- Sat- O = N M 1 0 0	-21 -21 -21	3- 6- 8- 8- 8- 8- 8- 8- 8- 8- 8- 8- 8- 8- 8-	194	Seth Mogregor Cheryl Gullen Mohaned Krop- Donat Jurkison Jackson Gollan Tia Sanders	200 400 600 Court	800 1,000
								□ <b>☆</b> ×
Timestamp* ↓ Employee	Computer	Policy		Rule		Action	Description	
2019-08-05 16:05:51-02:00 Martin Sutherland	WIN-035KHOR8	PER Productive	Tasks	Communication task		SwitchTask	Used the application slack.	.exe
2019-08-05 16:03:31-04:00 Martin Sutherland	Investigate Ma	artin Sutherland	Experienc	Abnormal login time		Warn, Notify	Signed in.	- Ing
2019-08-05 16:01:09-10:00 Leo Stiles	View record		Tasks	Data Entry		Notify, SwitchTasl	Visited My Drive - Google	Drive (h
2019-08-05 16:00:30-07:00 Brayden Crawford			Tasks	Archiving Task		Notify, SwitchTasl	Used the application wordp	pad.exe.
2019-08-05 15:55:23-08:00 Shelby Hunter	Ю Сору	Ctrl+C		Webpages Anomalies		Notify	Used thunderbird.exe 48.	.8% of tir
2019-08-05 15:52:11-01:00 Mohamed Krogh	WIN-02510T994	S28 Productive	Tasks	Social Media		SwitchTask	Visited (6) pinterest (https	s://www.
2019-08-05 15:45:22-05:00 Seth Mcgregor		HIPAA Con	npliance	Email content containing ICI	D-10	Block	Sent an email with attachme	ents: \\co

You can see that, on 2019-08-05 at 16:03:31, employee Martin Sutherland signed in. Since the action meets the rule criteria (Login: between 12am – 8am and 6pm – 12am), it is triggered.

Right-click on that row and then select **View record** to view the Session Recording of the alert.

# **16.1.4 Viewing the Session Recording**



Here you can see the <u>Session Recording</u> of how the rule message will look on the user's desktop:

When a user logs in outside our set schedule, they will see a warning message. Note that, the login time is based on the user's local time.

# 16.2 Rule Sample 2: User sending emails with attachments to non-business address

# 16.2.1 Rule Summary



This example shows how you can create a simple Activity rule to warn a user when they send an email with attachment(s) to a non-business email address.

# 16.2.2 Setting up the Rule

uns	Rule Name						
ions	NAME THIS RULE						
	Warn user for attempting to send emails to non-business address						
	DESCRIPTION (OPTIONAL)						
	Without HTML template						
	Rule Category						
	SELECT THE TYPE OF RULE						
	Activity	• (?					
	MARK THIS POLICY WITH TAGS TO IDENTIFY ITS PURF	POSE					
	email X communications X						
		(3					
	Types of Activities ②						
	WEBPAGES	NO					
	APPLICATIONS	NO					
	KEYSTROKES	()NO					
	FILES	()NO					
	EMAILS	YES 🔘					
	IM	NO					
	BROWSER PLUGINS	NO					
	PRINTING	()NO					
	NETWORKING						

# General

On the first tab, General, we assigned a name for the rule and a description. We also used some tags to identify the rule easily.

We have chosen an Activity rule type since we are looking to detect a user action (the act of sending an email) and not any content. We have selected **Emails** as the *Types of Activities*.

We left the rule schedule to its default 24-hour setting.

#### To learn more:

- Activity Rules: What Activities Can You Detect?
- <u>Emails</u> emails activity rule
- <u>Understanding Common Rule Elements</u> names, description, tags, schedule etc.



General	Emails	
Emails	Condition 1	
Actions	Mail To <sup>×</sup> Mail Direction <sup>×</sup> Has attachments <sup>×</sup> ⊙	
	Contains @gmail x Contains @yahoo x Contains @hotmail x Contains @outlook x	0
	EXCEPT Start typing	?

General User	Emails		
Emails	Condition 1		
Actions	Mail To X Mail Direction X Has atta	achments $^{\times}$ $\odot$	
	INCOMING	OUTGOING	?

General User Emails Actions	Emails Condition 1 Mail To <sup>×</sup> Mail Direction <sup>×</sup> Has attac	hments <sup>×</sup> ⊕	
	NO	YES	0

#### User

For the users, we used the default policy settings (by leaving the INHERIT POLICY SETTINGS option turned on).

#### To learn more:

Defining Users

# Emails

#### Mail To

We have added three criteria to the Emails activity. For the first criterion, 'Mail to', we have specified several email domains that we would consider as 'non-business' addresses and used a *contains* logic to detect even a partial match.

#### Mail Direction

For the second criterion, 'Mail Direction', we have selected OUTGOING to detect only the outgoing emails.

#### Has Attachments

For the second criterion, 'Mail Direction', we have selected OUTGOING to detect only the outgoing emails.

#### To learn more:

- Rule Conditions
- Rule Logic

# Actions

Advanced Mode

Finally, for the last tab, 'Actions', we have selected to use a WARN action to just show a simple warning to the user.

#### To learn more:

Defining Rule Actions

	User	
	Emails	Select how the system should react to violations
	Actions	
		WARN YES
		MESSAGE If present, show the following warning message to the user
		Please be careful when sending attachment to non-business
1		

General

# 16.2.3 Viewing the Rule Alerts

Click **BI Reports** > **Behavior Alerts** then select the **Basic** tab to view a report of all rule violation alerts and trends. The 'Grid Widget' located below the screen shows a list of all the alerts:

≡ Behavior Alerts						9	The Admin Administrator		START TOUR EXPLAIN	THIS PAG
Jun 1, 2019 - Jul 31, 20	19 🛗								EXPORT - CLO	NE <b>T</b>
Basic 🌣 🗑   Risk	+									
Timeline	ſ	5 <b>*</b> ×	Hourly			0 🕈	F × Top E	mployees	6	¢×
1.000 500 - Apr 04 Mon 05 Tue 06 VW	d 07 Thu 08 Fri 0	9 Sat 10	Sun- Tue- Thu- Fn- Sat- O = N	0 + 0 0 K 0 0 0		Cou	s	Seth Mogregor- Cheryl Gullen- Mindy Jameson- Mohamed Krogh- Donald Jurickova- Jackson Gollan- Tia Sanders- 0	200 400 600 600	1.000 ** ×
Timestamp* ↓	Employee	Computer	P	Policy	Rule			Action	Description	
2019-07-30 05:13:51-09:00	Mindy Jameson	WIN-015DAG	D13ECD E	Demo Policy	Protected personal	data		Warn	Mail body contains English names	î Ç
2019-07-28 06:02:33-12:22	John Doe	Investigate	e John Doe	Experien	c Warn user for atten	pting to send	d	Warn	Has attachment and Outgoing mail	a
2019-07-28 02:22:25-01:18	Ellis Hart	View recor	rd		Visiting gambling s	ites		Warn	Webpage URL "poker.com" contains	1
2019-07-26 03:08:33-06:02	Ellis Hart	_		-	Visiting gambling s	ites		Warn	Webpage URL "poker.com" contains	1
2019-07-24 10:30:28-07:31	Kevin Wainright	С Сору		Ctrl+C	Visiting gambling s	ites		Warn	Webpage URL "https://www.google.	
2019-07-24 09:20:00-11:40	Kevin Wainright	WIN-035KHC	DR8PER P	CI DSS	Social Media				Visited (8) facebook (https://www.fa	с
2019-07-23 17:22:33-20:33	Brayden Crawford	WIN-021JLL1	I PDAER P	CI DSS	Email content cont	aining ICD-10	)	Warn	Has attachment and Outgoing mail	a

You can see that, on 2019-07-28 at 06:02:33, employee John Doe sent an outgoing email to a non-business email account and the rule gets triggered.

Right-click on that row and then select **View record** to view the Session Recording of the alert.

# 16.2.4 Viewing the Session Recording

History view: John Dos

Here you can see the <u>Session Recording</u> of how the rule message will look on the user's desktop:

You can see that, as soon as the user sends an email to a non-business address, the rule's warning message is shown on the top-right corner of their screen.

You will notice that the message is very barebone and may fail to attract any attention. You can change that by <u>customizing the rule</u> <u>messages and alert</u>.

# 16.3 Rule Sample 3: User attempting to upload a sensitive file to a cloud drive

# 16.3.1 Rule Summary



This example shows how you can create an Activity rule to block a user and display a message for attempting to upload certain files to a cloud drive.

# 16.3.2 Setting up the Rule

ions	Rule Name						
	NAME THIS RULE						
	Block user for attempting to upload a sensitive file to a cloud drive						
	DESCRIPTION (OPTIONAL)						
	With HTML template						
	Rule Category						
	SELECT THE TYPE OF RULE						
	Activity	•					
	MARK THIS POLICY WITH TAGS TO IDENTIFY ITS PU	RPOSE					
	Types of Activities ③						
	Types of Activities ⑦ WEBPAGES APPLICATIONS	NO					
	Types of Activities ⑦ WEBPAGES APPLICATIONS KEYSTROKES	NO NO NO					
	Types of Activities ⑦ WEBPAGES APPLICATIONS KEYSTROKES FILES	ON NO NO YTS					
	Types of Activities WEBPAGES APPLICATIONS KEYSTROKES FILES EMAILS	ดฟ อฟ בד סฟ					
	Types of Activities WEBPAGES APPLICATIONS KEYSTROKES FILES EMAILS IM	NO NO ON ON NO NO					
	Types of Activities WEBPAGES APPLICATIONS KEYSTROKES FILES EMAILS IM BROWSER PLUGINS	04 04 03 04 04 04 04					
	Types of Activities ⑦ WEBPAGES APPLICATIONS KEYSTROKES FILES EMAILS IM BROWSER PLUGINS PRINTING	0M 0M 0M 0M 0M 0M 0M 0M					
	Types of Activities WEBPAGES APPLICATIONS KEYSTROKES FILES EMAILS IM BROWSER PLUGINS PRINTING NETWORKING	0M 0M 00 0M 0M 0M 0M 0M					
	Types of Activities WEBPAGES APPLICATIONS KEYSTROKES FILES EMAILS IM BROWSER PLUGINS PRINTING NETWORKING NETWORKING When is this rule active?	ON ON DN DN ON ON ON ON					

# General

On the first tab, General, we assigned a name for the rule and a description.

We have chosen an Activity rule type since we are looking to detect a user action (the act of uploading a file) and not any content. And we have selected **Files** as the *Types of Activities*.

We left the rule schedule to its default 24-hour setting.

#### To learn more:

- <u>Activity Rules: What Activities Can You Detect?</u>
- <u>Files</u>— files activity rule
- <u>Understanding Common Rule Elements</u> names, description, tags, schedule etc.

General <mark>User</mark>	User selection	
Files Actions	INHERIT POLICY SETTINGS	NO
	APPLY RULE TO	
	EXCLUDE FROM RULE	
	Management X	

Upload File name × 🕤

General

User

Files

Actions

Files

Condition 1

Upload 🗙

ADD CONDITION

File operation

For the users, we choose to manually add the users (by turning off the INHERIT POLICY SETTINGS). We have also excluded the Management department from the rule's scope.

#### To learn more:

Defining Users

#### Files

?

?

#### File Operation

We have added two criteria to the Files activity. For the first criterion, 'File Operation', we have selected the *Upload* operation.

General	Files	
Files	Condition 1	
Actions	File operation Upload File name <sup>×</sup> 🕣	
	Contains sensitive x         Contains confidential x         Contains secret x           Contains classified x         Image: Contains confidential x         Image: Contains confidential x         Image: Contains confidential x	
	EXCEPT	
	Start typing	

# General Simple Mode Advanced Mode User Files Select how the system should react to violations Actions NOTIFY NO BLOCK VIS MESSAGE If present, show the following warning message to the user Uploading sensitive files to a personal Cloud Drive is a comp USE HTML TEMPLATE VIS

#### Upload File Name

For the second criterion, 'Upload File Name', we have specified some keywords that we would like to detect in the file names.

#### To learn more:

- Rule Conditions
- Rule Logic

# Actions

Finally, for the last tab, 'Actions', we have selected a BLOCK action to block the activity and at the same time show a message to the user. For this demonstration, we used a HTML template. This will allow us to use a customized template. We can also use simple HTML tags (such as <b>, <a> etc.) in the message itself.

#### To learn more:

- Defining Rule Actions
- Customizing the Rules Messages and Alerts

# 16.3.3 Viewing the Rule Alerts

Click **BI Reports** > **Behavior Alerts** then select the **Basic** tab to view a report of all rule violation alerts and trends. The 'Grid Widget' located below the screen shows a list of all the alerts:

Behavior Alerts				Q D The Adm		START TOUR EXPLAIN THIS PAGE
Jun 1, 2019 - Jul 31, 2	019 🛗					EXPORT - CLONE
Basic 🌣 🗑   Risk	+					
Timeline	6 <	l≱ × Hourly		🗇 🏟 × Тор	Employees	Ē 🌣 ×
1.500 500 0 Apr 04 Mon 05 Tue 00	Ned 07 Thu 08 Fri 08 S	Sun- Man- Nan- Wed- Fri- Sun- Fri- Sun- Fri- Sun- Fri- Sun- Fri- Sun- Fri- Sun- Sun- Fri- Sun- Sun- Sun- Sun- Sun- Sun- Sun- Sun			Seth Mogregor Cheryl Gullen- Mindy Jameson- Mohamed Krogh- Donald Jurketova- Jackson Gollan- Tia Sanders- 0	200 400 600 800 1,000 Court
Timestamet	- Fereleure	Delias	Pula			<b>□</b> ‡ ×
ninestamp v	EINDIOYCE	inputer Policy			Antina	Description
2019-07-08 08:09:17-12:30	Raphael Dantes	HIPAA Co	ompliance PII and dru	ug name	Action Block, Notify	Description Uploaded c/users/rdantes/favourites/
2019-07-08 08:09:17-12:30 2019-07-08 08:58:54-21:18	Raphael Dantes Kate Sparrow	HIPAA Co	Experienc Block user	ig name for attempting to upload	Action Block, Notify Block	Description Uploaded c/users/rdantes\favourites\  Uploaded sensitive.txt to drive.google
2019-07-08 08:09:17-12:30 2019-07-08 08:58:54-21:18 2019-07-08 08:55:54-21:18	Raphael Dantes Kate Sparrow Kate Sparrow	HIPAA Co Investigate Kate Sparrow	propiance Pil and dru Experienc Block user pliance Pil and dis	ig name for attempting to upload ease name	Action Block, Notify Block Block, Notify	Description Uploaded c\users\rdantes\favourites\ Uploaded c\users\rdantes\favourites\ Uploaded c\users\stormality.to drive.google Uploaded c\users\sparrow\favourite
2019-07-08 08:09:17-12:30 2019-07-08 08:58:54-21:18 2019-07-08 08:55:11-08:33 2019-07-08 08:55:11-24:17	Raphael Dantes Kate Sparrow Kate Sparrow Kate Sparrow	HIPAA Co Investigate Kate Sparrow View record	propriation of the second seco	ig name for attempting to upload ease name ig name	Action Block, Notify Block Block, Notify Block, Notify	Description Uploaded clusers/sdantes/savourites/ Uploaded sensitive.txt to drive.google Uploaded clusers/skparrow/favourite Uploaded clusers/skparrow/favourite
2019-07-08 08:09:17-12:30           2019-07-08 08:58:54-21:18           2019-07-08 08:58:54-21:18           2019-07-08 08:55:11-08:03           2019-07-08 08:55:11-24:17           2019-07-08 08:55:11-24:17	Raphael Dantes Kate Sparrow Kate Sparrow Kate Sparrow Kate Sparrow	HIPAA Co Investigate Kate Sparrow View record Copy Ctrl+C	Pilance Pil and dru Experienc Block user pliance Pil and dis pliance Pil and dru pliance Pil and dru pliance Pil and DN	ıg name for attempting to upload ease name ug name A profile	Action Block, Notify Block, Notify Block, Notify Block, Notify Block, Notify	Description Uploaded clusers/irdantes/favourite Uploaded clusers/iksparrow/favourite Uploaded clusers/iksparrow/favourite Uploaded clusers/iksparrow/favourite
2019-07-08 08:09:17-12:30           2019-07-08 08:58:54-21:18           2019-07-08 08:55:51:08:33           2019-07-08 08:55:11:08:33           2019-07-08 08:55:11:08:33           2019-07-08 08:55:11:08:08           2019-07-08 08:55:11:08:08           2019-07-08 08:55:11:08:08           2019-07-08 08:55:11:08:08	Raphael Dantes Kate Sparrow	HIPAA Co Investigate Kate Sparrow View record Copy Ctrl+C HIPAA Co	pilance Pil and dn Experienc Block user pilance Pil and dis pilance Pil and dr pilance Pil and Dr ompilance Uploading	ug name for attempting to upload ease name ug name A profile ; files containing JCD-10 c	Action Block, Notify Block, Notify Block, Notify Block, Notify Block, Notify Block	Description Uploaded clusers/idantes/lavourite/ Uploaded clusers/kparrow/lavourite Uploaded clusers/kparrow/favourite Uploaded clusers/kparrow/favourite Uploaded clusers/kparrow/favourite

You can see that, on 2019-07-08 at 08:58:54, employee Kate Sparrow tried to upload a file to Google Drive and the rule blocked her action.

Right-click on that row and then select **View record** to view the Session Recording of the alert.

# 16.3.4 Viewing the Session Recording

Here you can see the <u>Session Recording</u> of how the rule message will look on the user's desktop:



You can see that, as soon as the user attempts to uploads a file named 'sensitive.txt' the rule is triggered as the filename contains one of our specified keywords, 'sensitive'.

The rule shows the message we specified, and the upload operation is blocked.

# 16.4 Sample Rule 4: User attempting to share files containing sensitive content

# 16.4.1 Rule Summary



This example shows how you can create a Content rule to block a user and display a message for attempting to upload a file containing credit card numbers. The user will be able to override the block action by clicking a 'Yes' button or cancel the operation by clicking a 'No' button. In any case, a rule alert will be recorded.

# 16.4.2 Setting up the Rule

General User	Start by defining the general rule settings	
Content Files Actions	Rule Name NAME THIS RULE Block user with option for override for sharing files cont DESCRIPTION (OPTIONAL)	aining CC number
	Rule Category SELECT THE TYPE OF RULE Content sharing	• ②
	MARK THIS POLICY WITH TAGS TO IDENTIFY ITS PURPOSE	0
	Types of Content ⑦	
	CLIPBOARD	
	FILES	YES
	EMAILS	NO
	IM	NO
	When is this rule active?	
	Time that this rule is active	-+

# General

On the first tab, General, we assigned a name for the rule and a description.

We have chosen a Content Sharing rule type since we are interested in detecting sensitive content. We have selected **Files** as the *Types of Content*.

We changed the rule schedule so that it will monitor 9am-12pm and 12:30pm-5:00pm, a typical worktime taking into account a 30minute launch break.

#### To learn more:

- <u>Content Sharing Rules: What Contents Trigger</u> the Rules?
- <u>Files</u>— files content sharing rule
- <u>Understanding Common Rule Elements</u> names, description, tags, schedule etc.

General <mark>User</mark>	User selection	
Content Files	INHERIT POLICY SETTINGS	YES
Actions	APPLY RULE TO	
	EXCLUDE FROM RULE	

General User	Describe the sensitive content that Teramind will protect
Content Files Actions	Definition 1 SELECT WHAT MAKES THIS DATA SENSITIVE Predefined Classified Data
	SELECT SENSITIVE DATA CATEGORY Financial Data SELECT SENSITIVE DATA TO DETECT
	All credit card numbers

# User

For the users, we used the default policy settings (by leaving the INHERIT POLICY SETTINGS option turned on).

#### To learn more:

Defining Users

# Content

For content, we used a built-in template, 'Predefined Classified Data' and then sleeted the 'Financial Data' category to detect 'All credit card numbers'. The rule will trigger even if there's only one credit card number detected in a file. We did so by entering a value of '1' in the TRIGGER ON PATTERN FREQUENCY IN CONTENT field.

er	Simple Mode	Advanced Mode							
ntent	Select how the system shou	Select how the system should react to violations							
ctions	NOTIFY	O NO							
	BLOCK MESSAGE If present, show the following warning r	Pressage to the user							
	USE HTML TEMPLATE	ATION?							

# Actions

Finally, for the last tab, 'Actions', we have selected a BLOCK action. This will show a warning to the user and block the action.

#### To learn more:

• Defining Rule Actions

# 16.4.3 Viewing the Rule Alerts

Click **BI Reports** > **Behavior Alerts** then select the **Basic** tab to view a report of all rule violation alerts and trends. The 'Grid Widget' located below the screen shows a list of all the alerts:

	Behavior Alerts							9				START TOUR	EXPLAIN THIS PAGE
Aug	5, 2019 - Aug 9, 20	19 🛅										EXPOR	tr - CLONE T
Basic	🌣 🗑   Risk	+											
Timeli	ine			Hourly				۵ ک	ŧ×	Top Employee:			5 🗘 🖄
8- 1100 2- 0	\$2	10		Sun - Mon - Tue - Wed - Thu - Fri - Sat -	N M 4 6 6 1		12 - 14 - 15 - 17 - 19 - 21 - 21 -	20 23-	unt 6 4 2	Bräyden Cit	wford -	i i i 2 3 4 Count	i i i 5 0 7
													5 <b>*</b> ×
	Timestamp* ↓	Employee	Computer		Policy		Rule	Acti	on	Descripti	on		
+	2019-08-05 12:17:45-07:19	Simon Woodly			HIPAA Con	npliance	PII and drug name	Bloc	k, Notify	y Uploade	d c:\users\swo	odly\appdata\local\te	mp\416\wwwbb
	2019-08-05 12:17:45-09:20	Simon Woodly	Investigate	simon Woodh	,		Block user for attemp.	Bloc	:k	Uploade	d \\vboxsvr\m	ynetwork\credit card.	bxt j
-	2019-08-05 12:17:45-10:27	Simon Woodly	View recor	d		pliance	PII and DNA profile	Bloc	k, Notify	y Uploade	d c:\users\ksp	arrow\favourites\bing	url to www.mns.c
			Ю Сору		Ctrl+C								

You can see that, on 2019-08-05 at 12:17:45, employee Simon Woodly tried to upload a file containing credit card data to a Box drive and the rule got triggered.

Right-click on that row and then select **View record** to view the Session Recording of the alert.

# 16.4.4 Viewing the Session Recording

6 M	Dire-GrapeDire A	x +				-	0 ×	
4	Drive	Q. Search Drive	*		٢	۲		
+	New	My Drive -				88 G	-	
• 🖽	My Drive							
· 10	Computers						0	
쓰	Shared with me							
0	Recent							
B	Trank		n					
-	distant.		Policy Violation Detected					
-	Starage 7.0 00 of 15.00 used		Uploading sensitive files to a personal Could Drive is a company policy violation. Please check <u>concarry policy</u> guide					
	UPDRADE STORADE							
				Þ				
				Uploading	p1 item		×	
				Defina un	had .	_	CANCE.	
				ti sere	Netst -		0	
					_	_	111.04	

Here you can see the <u>Session Recording</u> of how the rule message will look on the user's desktop:

You can see that, as soon as the user attempts to uploads a file named 'sensitive.txt' the rule is triggered as the filename contains one of our specified keywords, 'sensitive'.

The rule shows the message we specified, and the upload operation is blocked.

# 16.5 Sample Rule 5: Employee productivity anomaly

# 16.5.1 Rule Summary

This example shows how you can create an Anomaly rule to monitor the productivity level of employees and receive a notification when it goes below a certain threshold. You will also be able to compare this against their Departmental and Organizational average.

# 16.5.2 Setting up the Rule

GENERAL SETTINGS	
RULE NAME	
Define this rule's name	
Declining productivity	
APPLIES TO	
Select the users or groups that will be subject to this rule	
All employees X	0
EXCLUDING	
Select the users or groups that will be excluded from this rule	
Add employees or departments	0
TAGS Optional	
Select or create custom tags to classify this rule	
productivity ×	

#### **General Settings**

On the first section, General Settings, we assigned a name for the rule and a description.

For the users, we have selected All employees.

We have also used a tag to find the rule easily.

#### To learn more:

- <u>Creating Anomaly Rules</u>
- <u>Setting Up the Rule Basics</u> names, description, user, tags etc.

#### **Rule Trigger**

We chose the 'Activity: Productivity' as the rule trigger.

For the rule's condition, we selected the *Productivity* criterion and chose a less than '<' logic to detect when the productivity goes below 20%.

#### To learn more:

- Detection Criteria What Behavioral Anomalies
   Trigger the Rules?
- List of Prebuilt Anomaly Rule Templates

	EL			
RISK				
Select the degree of	risk for violating this rule			
No Risk	Low	Moderate	High	Critical
	LOW	Woderate	1 ISH	Chical
10 10.00				
ACCUMULATES RISK				

# **Risk Level**

We left the risk level's default settings (No Risk) and ACCUMULATES RISK option turned on so that multiple violations of the rule will add up towards the risk score for this rule.

#### To learn more:

• <u>Setting the Risk Level in an Anomaly Rule</u>

RULE TRIGGER
VHAT TRIGGES THE BULE
Select the action which the rule will be built upon
Activity Productivity

CONDITIONS
Select parameters for this rule
Productivity

CONDITIONS
Select parameters for this rule
Select parameters for this rule
CONDITIONS
Select parameters for this rule
Select parameters for this rule
CONDITIONS
Select parameters for this rule
CONDITIONS
Select parameters for this rule
Sel

NOTIFY			YES
Select who should be notified upon vio	olation of this rule		
Shelby Hunter			
shunter®teramind_demo_com			

# Actions

Finally, for the last section, 'Actions', we have turned on the NOTIFY action to inform a manager about the productivity loss.

#### To learn more:

Defining Rule Actions

# 16.5.3 Viewing the Rule Alerts

Click **BI Reports** > **Behavior Alerts** then select the **Basic** tab to view a report of all rule violation alerts and trends. The 'Grid Widget' located below the screen shows a list of all the alerts:

≡	Behavior Alerts						Q,		The Adminis Idministrator	trator 🔅	۞ [	START TOUR	EXPLAIN THIS PAGE
Apr 1	1, 2021 - Apr 11, 2	021 🛗							La:	st sync time: 2	021-04-11	08:20 EXPORT	CLONE T
Basic	🗢 🗑   Risk	+											
Timeli	ne		<b>© ☆</b> ×	Hourly			٦ I	¢×	Top Em	ployees			<b>□ ☆</b> ×
400 19 0 200 0	A	ar 11		Sun - Mon - Tue - Wed - Thu - Fri - Sat -		11 - 11 - 11 - 11 - 11 - 11 - 11 - 11	18	00 8	, ,	lackson Gollan Tia Sanders ohamad Kroph Indy Jameson Cheryl Guillen Fang Shan Ellis Hart 0	10	20 30 Count	
	Timestamp* ↓	Employee	Computer		Policy	Rule		Ad	tion	Description			
-	2021-04-11 07:52:53-04:00	Mindy Jameson	WIN-035KH	OR8PER	Productive Tasks	Communication task		Sv	vitchTask	Used the ap	plication sla	ck.exe.	<b>^</b>
:	2021-04-11 07:44:45-04:00	Leo Gross	Investigate Le	o Gross	snomalies	Declining productivity				Productivity	rate is 11.0	%. User average is 5	52.6%.
:	2021-04-11 07:44:45-04:00	Elinor Silva	View record		vnomalies	Declining productivity				Productivity	rate is 13.0	%. User average is 3	I5.3%.
	2021-04-11 07:44:45-04:00	Leo Gross	<b>.</b> .		vnomalies	Productivity anomaly				Productivity	rate is 11.0	%. User average is \$	52.6%.
:	2021-04-11 07:44:45-04:00	Jackson Gollan	🖸 Сору	Ctrl+C	unomalies	File upload anomaly				Downloader	102 files w	ith browser. Compa	iny average i
	2021-04-11 07:44:45-04:00	Thomas Cook			Anomalies	Excess time on unproduct	tive site			Used outloo	k.live.com	7.5% of time. Com	pany average

You can see that, on 2021-04-11 at 04:44:45, employee Leo Gross triggered an anomaly rule due to his productivity dropping to 11% where his usual productivity was above 52% before.

Right-click on that row and then select **View record** to view the Session Recording of the alert.

# 16.5.4 Viewing the Session Recording

Here you can see the <u>Session Recording</u> of how the rule message will look on the user's desktop:



You can click the **Notification** icon near the top-right corner of the Session Player to see all the alerts/notifications.

Click a **Notification** to see what the user was during when the rule was triggered.

# 17 Appendix

# **17.1 List of Prebuilt Rule Templates**

#### **Data Loss Prevention**

Credit Card Number: Wide Credit Card Number: Narrow Credit Card Number: At least 50 numbers Credit Card Magnetic Strip Data: Wide Credit Card Magnetic Strip Data: Narrow Credit Card Magnetic Strip Data: 50 Track1 entities Office Document: Confidential Watermark Credit Card Magnetic Strip Data: 50 entities Health Data: Disease or Drug names Health Data: Drug names or NDC identifiers Personal Data: US SSN and Date of Birth Health Data: US SSN with Health Information Health Data: UK NHS Numbers and Medical Information

#### Emails

Outbound email with social security number Outgoing email to non-business address Email contains a CV Outgoing email w-attachment to non-business address Email contains accusative sentiment Email contains angry sentiment Email contains discouraged sentiment Email contains dissatisfied sentiment Email contains lawsuit threat Email contains profanity Email contains sexual harassment content Email contains unresponsive complaint Incoming email from competitors Outbound email with attachment Outbound email with credit card number Outbound email with sensitive keywords

#### Keystrokes

Screenshot taken

#### Printer

Large print job

#### Application

Anonymous browser detected MSIExec program installation or removal Network sniffer launched Non-whitelisted application executed Registry editor launched Running peer-to-peer file sharing applications Running screen sharing applications Snipping tool used

#### **File Operations**

Access sensitive files Driver tampering Hosts file edited Program installation Write to cloud drive (native) Write to config file Write to removable media Copy file from RDP Copy file from RDP to removable media

#### Websites

Non-whitelisted website accessed Adult websites Excessive time on job search websites Excessive usage of social media Gaming or gambling sites Streaming movies

#### IMs

IM contains accusative sentiment IM contains angry sentiment IM contains discouraged sentiment IM contains dissatisfied sentiment IM contains lawsuit threat IM contains sexual harassment content IM contains unresponsive complaint

# **17.2 List of Prebuilt Anomaly Rule Templates**

#### Applications

Application usage anomaly

#### Emails

Outgoing email anomaly Outgoing email attachments anomaly

# **File Operations**

External storage insertion anomaly File copy anomaly File creation anomaly File delete anomaly File rename anomaly Files downloaded by browser anomaly Files downloaded by cloud client anomaly Files uploaded by browser anomaly Files uploaded by cloud client anomaly

Instant Messages Instant messages count anomaly

#### Networking

Network connection count (no https) anomaly Network connection count anomaly Network data in (no https) anomaly Network data in anomaly Network data out (no https) anomaly Network data out anomaly

Printers Documents printed count anomaly

#### User Activity Idle time anomaly User productivity rate anomaly

Websites Website usage anomaly

# 17.3 List of Pre-Defined Classified Data

# **Financial Data**

All Credit Card Numbers	USA	Europe
Magnetic Data	Visa	Visa
Magnetic Data (Track 1)	Mastercard	Mastercard
Magnetic Data (Track 2)	American Express	American Express
Swift Code	Bankcard	Discover
ARA Route Numbers	Dinners International	Maostro
ABA Route Numbers		Widesti O
	Dinners USA & Canada	Switch
Ву Туре	Discover	Solo
Visa	En Route	
Mastercard	JCB	United Kingdom
American Express	Maestro	Visa
Bankcard		Mastercard
Dinners International	Japan	American Express
Dinners USA & Canada	Visa	Discover
Discover	Mastercard	Maestro
En Route	American Express	Switch
JCB	JCB	Solo
Maestro	Maestro	
Switch		Canada

Solo RuPay	<b>Israel</b> Visa	Visa Mastercard
	Mastercard	American Express
By Country	American Express	Dinners
USA	JCB	Discover
Japan	Maestro	Maestro
Israel		
Europe		
United Kingdom		
Canada		

# Health Data

Common Drug Names	NDC Number	NHS Number
Common Disease Names	HICN	ICD10 Code
DNA Profiles		

# Personally Identifiable Data

USA Zip Code and Address	Dates	URL
UK Postal Code and Address	Phone Numbers	VIN
USA Cities	IPv4 Addresses	Personal Cryptographic Keys
SSN	IPv6 Addresses	USA Vehicle License Plates
English Names	Email Addresses	USA Driver License Number (All
		States)

# Code Snippets

Clang	Haskell	РНР
C++	Java	Python
C#	JavaScript	Ruby
Go	Objective-C	SQL