

Integrate Centrify Server Suite

Abstract

This guide provides instructions to configure Centrify Server Suite to send syslog events to EventTracker.

Scope

The configurations detailed in this guide are consistent with **EventTracker** version 7.x and later, and **Centrify Server Suite 2015**.

Audience

Centrify Server Suite users, who wish to forward Events to EventTracker Manager and monitor events using Event Tracker.

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Overview

Centrify Server Suite secures the industry's broadest range of mission-critical servers from identity-related insider risks and outsider attacks, making security and regulatory compliance repeatable and sustainable. The solution leverages existing Active Directory infrastructure to centrally manage authentication, access controls, privileged identities, policy enforcement and compliance for on-premises and cloud resources.

Prerequisites

- EventTracker v7.x should be installed.
- Centrify Server Suite should be installed.
- Centrify Unix Agent should be Installed.
- Centrify Windows Agent should be installed.

Configure syslog to send Centrify Unix agent syslog events to EventTracker server

1. Open **rsyslog.conf** in **VI Editor**. (with required privilege to edit rsyslog.conf file)
2. Insert the following entry to specify the EventTracker Manager.

If required change the IP address and port number based on requirement.

E.g.:

auth.INFO @@172.16.1.1:514

auth = Syslog facility

INFO = priority

192.168.1.1 = IP address of EventTracker Manager

514 = default syslog listening port number of EventTracker Manager

NOTE:

Use '@@' for TCP and '@' for UDP to forward log to EventTracker. It can support both.

3. Save and restart the **rsyslog** service

Configure Centrify Windows Agent machine to send events to EventTracker Manager

Install EventTracker Agent on Centrify system. Please refer [EventTracker Agent Deployment Manual](#) for more details in order to install the Agent.

To create filter exception in agent, please follow the steps given below.

1. Launch EventTracker Agent configuration.
2. Click **Event Filters** tab, and then click **Filter Exception**.

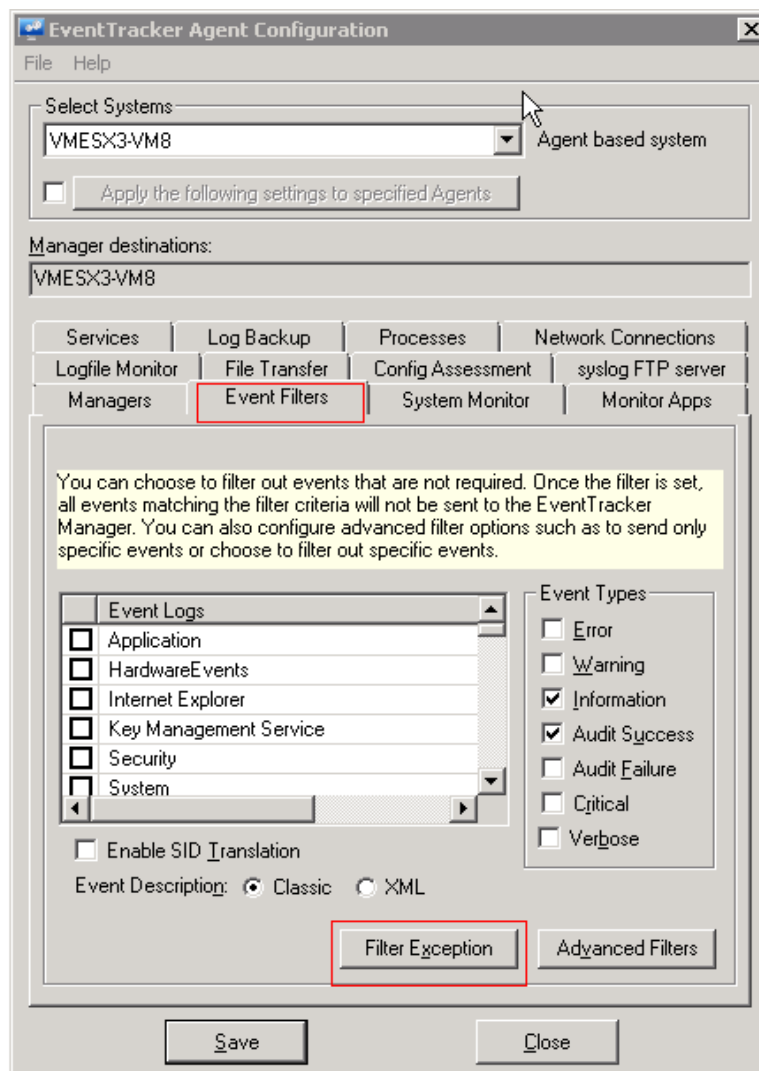


Figure 1

3. Click the **New** button

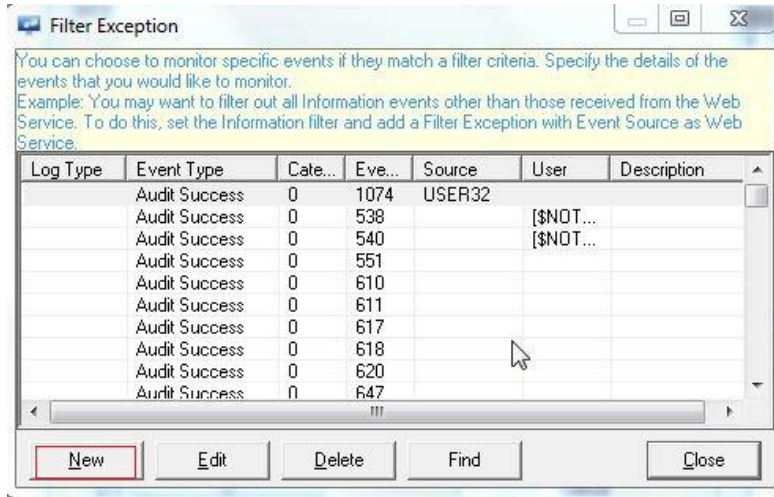


Figure 2

Event Details window displays.

4. In **Log Type**: drop down, select **Application**.
5. In **Match in Source**: box, enter **Centrify AuditTrail**

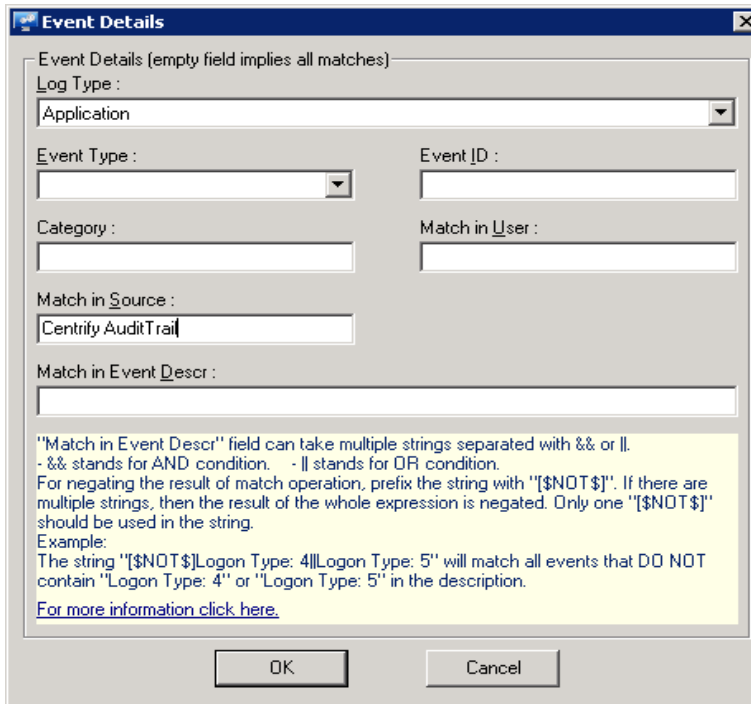


Figure 3

Similarly create two new Filter Exceptions for **Match in Source**: as **DirectAuthorize Agent** and **DirectAudit Agent**.

6. Click **OK**, and then click the **Save** button.

EventTracker Knowledge Pack

Categories

Unix Agent

- **Centrify: Adclient agent started** - This category based report provides information related to when adclient agent service has started.
- **Centrify: Adclient agent stopped** - This category based report provides information related to adclient agent stopped
- **Centrify: Auditing Enabled** - This category based report provides information related to Centrify Unix agent auditing enabled.
- **Centrify: Configuration settings reloaded** - This category based report provides information related to configuration settings reloaded in Unix agent.
- **Centrify: Dzdo execution denied** - This category based report provides information related to dzdo (command for Centrify privileged access) command execution denied.
- **Centrify: Dzdo execution granted** - This category based report provides information related to dzdo (command for Centrify privileged access) command execution granted.
- **Centrify: Local cache flushed** - This category based report provides information related to local cache flushed.
- **Centrify: PAM Account management granted** - This category based report provides information related to PAM account management granted.
- **Centrify: PAM Authentication Failed** - This category based report provides information related to PAM authentication failures.
- **Centrify: PAM Authentication successful** - This category based report provides information related to successful PAM authentications.
- **Centrify: PAM Session closed** - This category based report provides information related to closed PAM sessions.
- **Centrify: PAM Session opened** - This category based report provides information related to opened PAM sessions.
- **Centrify: SSHD denied** - This category based report provides information related to Centrify SSHD denied.

- **Centrify: SSHD granted** - This category based report provides information related to Centrify SSHD granted.

Windows Agent

- **Centrify: Create desktop failure** - This category based report provides information related to Centrify desktop creation failure.
- **Centrify: Create desktop success** - This category based report provides information related to Centrify desktop creation success.
- **Centrify: DirectAuthorize agent started** - This category based report provides information related to started DirectAuthorize agents.
- **Centrify: DirectAuthorize agent stopped** - This category based report provides information related to stopped DirectAuthorize agents.
- **Centrify: Join to zone success** - This category based report provides information about successfully joined agents to zone
- **Centrify: Leave from zone failed** - This category based report provides information related to agent which tries to leave zone, but failed.
- **Centrify: Network access success** - This category based report provides information related to successfully accessed network resources.
- **Centrify: Remote login failure** - This category based report provides information related to failed remote logins.
- **Centrify: Remote login success** - This category based report provides information related to successful remote logins.
- **Centrify: Run as role attempt failed** - This category based report provides information related to failed run as role attempts.
- **Centrify: Run as role attempt succeed** - This category based report provides information related to successful Run as role attempts.
- **Centrify: Switch desktop success** - This category based report provides information related to successful switching between Centrify desktop and default user desktop.

Alerts

- **Centrify: Adclient agent stopped** - This alert is generated by Centrify Linux/Unix agent when Unix agent service stopped.
- **Centrify: Configuration settings reloaded** - This alert is generated by Centrify Linux/Unix agent when configuration settings reloaded.
- **Centrify: Create desktop failure** - This alert is generated by Centrify Windows Agent when user failed to create desktop.
- **Centrify: DirectAuthorize agent stopped** - This alert is generated by Centrify Windows Agent when DirectAuthorize Agent service stopped.
- **Centrify: Dzdo execution denied** - This alert is generated by Centrify Linux/Unix agent when dzdo command execution denied.
- **Centrify: Dzdo execution granted** - This alert is generated by Centrify Linux/Unix agent when dzdo execution granted.
- **Centrify: Join to zone success** - This alert is generated by Centrify Windows Agent when agent successfully joined to the zone.
- **Centrify: PAM Authentication failed** - This alert is generated by Centrify Linux/Unix agent when PAM authentication is failed.
- **Centrify: Remote login failed** - This alert is generated by Centrify Windows Agent when remote log in failed.
- **Centrify: Run as role attempt failed** - This alert is generated by Centrify Windows Agent when Run as role attempt failed
- **Centrify: SSHD denied** - This alert is generated by Centrify Linux/Unix agent when Centrify SSHD denied.

Reports

- **Centrify Adclient agent started:** This report provides information related to when adclient agent service has started.
- **Centrify Adclient agent stopped:** This report provides information related to adclient agent stopped.

- **Centrify Dzdo execution denied:** This report provides information related to dzdo (command for Centrify privileged access) command execution denied.
- **Centrify Dzdo execution granted:** This report provides information related to dzdo (command for Centrify privileged access) command execution granted.
- **Centrify PAM Account management granted:** This report provides information related to PAM account management granted
- **Centrify PAM Authentication Failed:** This report provides information related to PAM authentication failures.
- **Centrify PAM Authentication successful:** This report provides information related to successful PAM authentications.
- **Centrify PAM Session closed:** This report provides information related to closed PAM sessions.
- **Centrify PAM Session opened:** This report provides information related to opened PAM sessions.
- **Centrify SSHD denied:** This report provides information related to Centrify SSHD denied.
- **Centrify SSHD granted:** This report provides information related to Centrify SSHD granted.

Import Centrify Server Suite Knowledge Pack into EventTracker

1. Launch **EventTracker Control Panel**.
2. Double click **ExportImport Utility**, and then click the **Import** tab.

Import **Category/Alert/Flex reports/Token/Knowledge Object** as given below.

Import Category

1. Click **Category** option, and then click the **browse**  button.

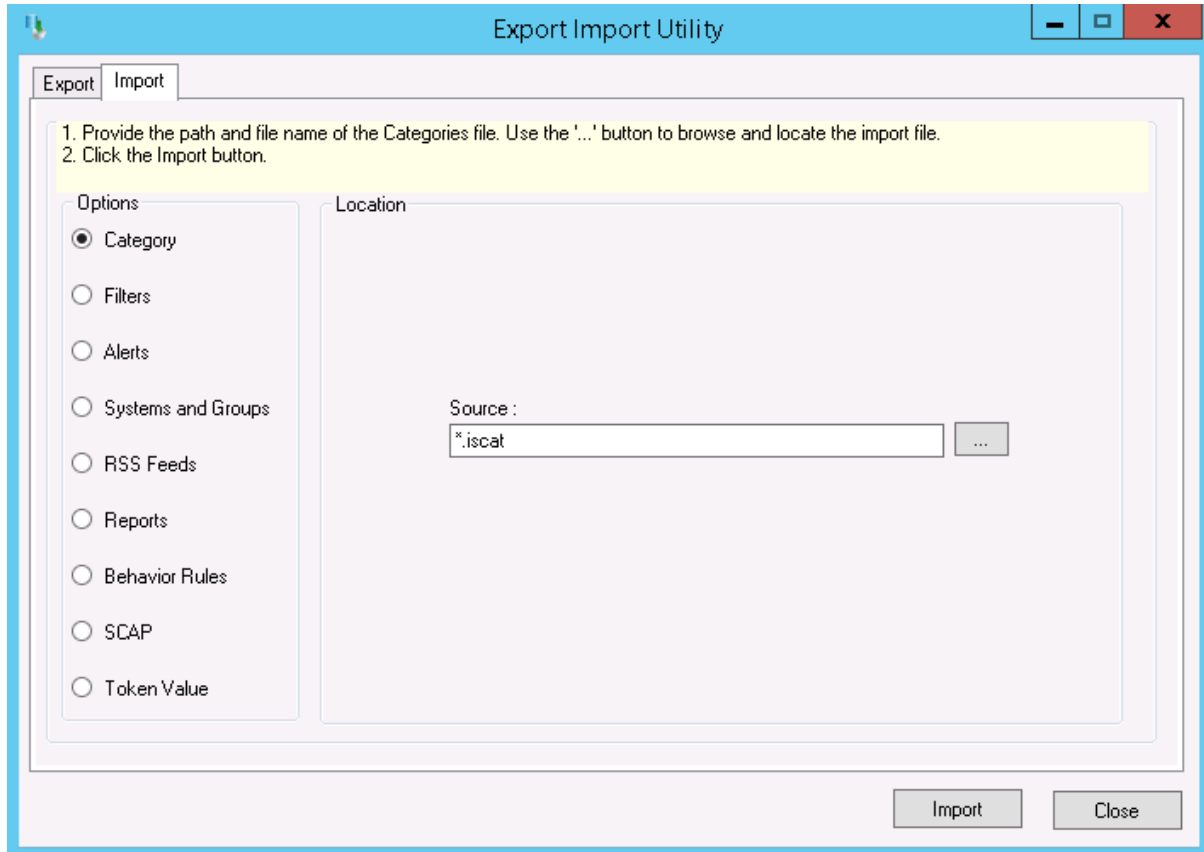


Figure 4

2. Locate **All Centrify Server Suite AD client group categories.iscat** file, and then click the **Open** button.
3. To import categories, click the **Import** button.

EventTracker displays success message.

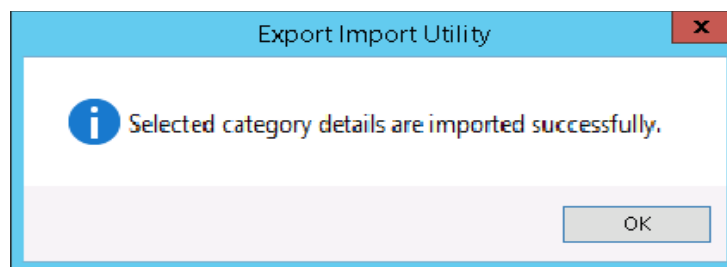



Figure 5

4. Click **OK**, and then click the **Close** button.

Import Alerts

1. Click **Alert** option, and then click the **'browse'**  button.

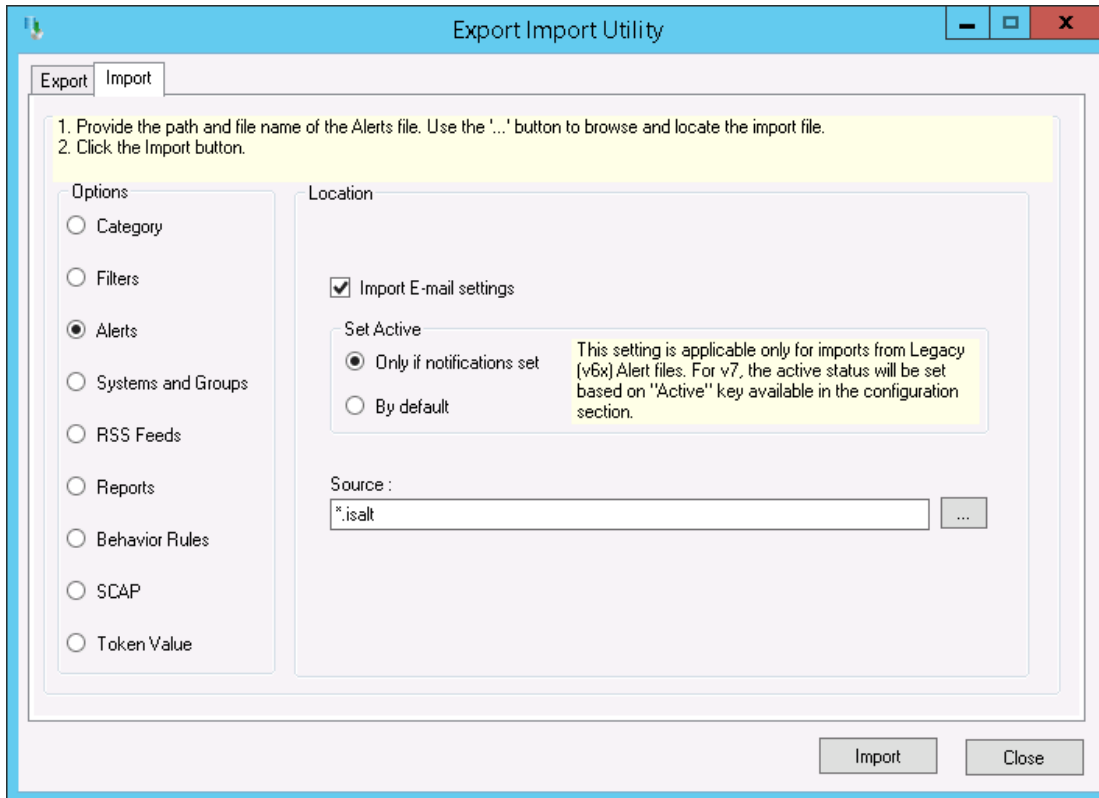


Figure 6

2. Locate **All Centrify Server Suite AD client group of alerts.isalt** file, and then click the **Open** button
3. To import alerts, click the **Import** button.
EventTracker displays success message.

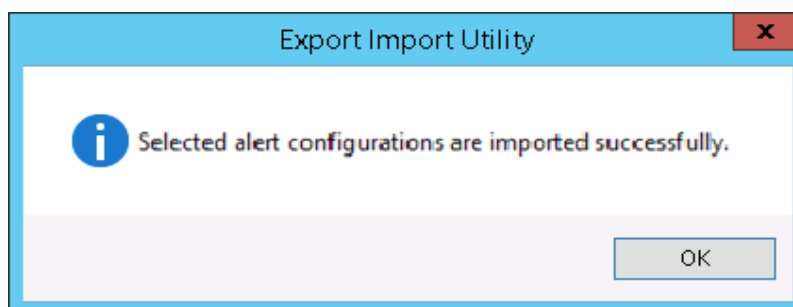



Figure 7

4. Click **OK**, and then click the **Close** button.

Import Token Templates

1. Click the **Tokan Value** option, and then click the 'browse'  button.

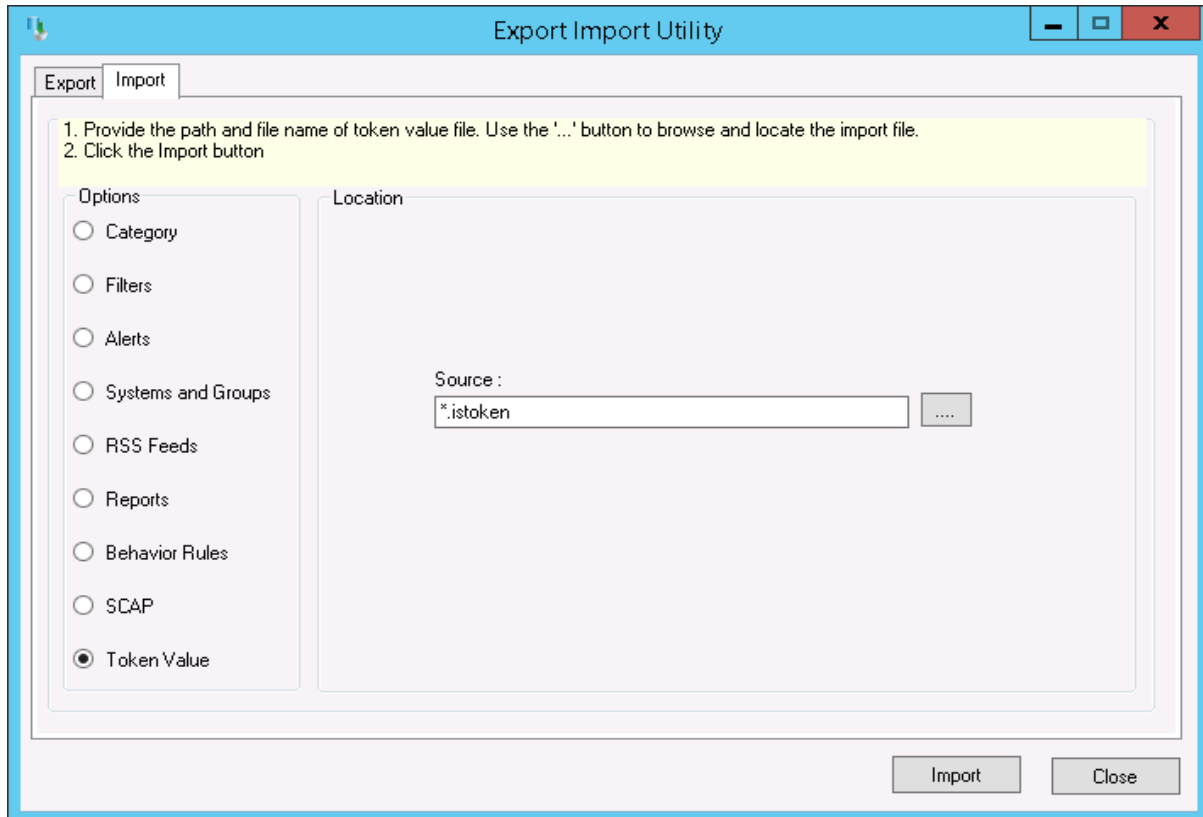


Figure 8

2. Locate **All Centrify Server Suite tokens.istoken** file, and then click the **Open** button.
3. To import tokens, click the **Import** button.

EventTracker displays success message.

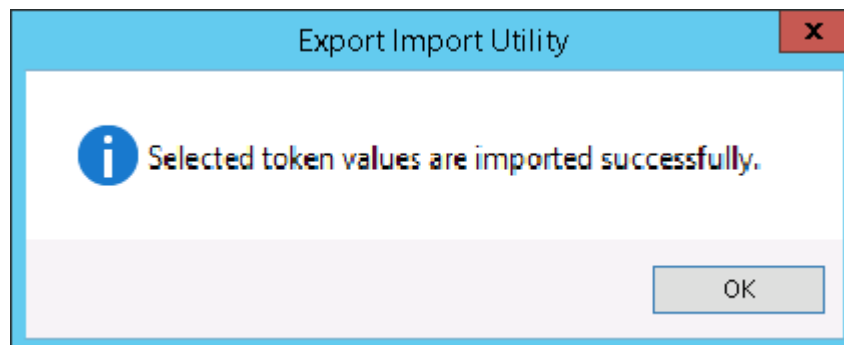



Figure 9

4. Click **OK**, and then click the **Close** button.

Import Reports

1. Click **Reports** option, and then click the '**browse**'  button.
2. Locate **All Centrify Server Suite group reports.issch** file, and then click the **Open** button

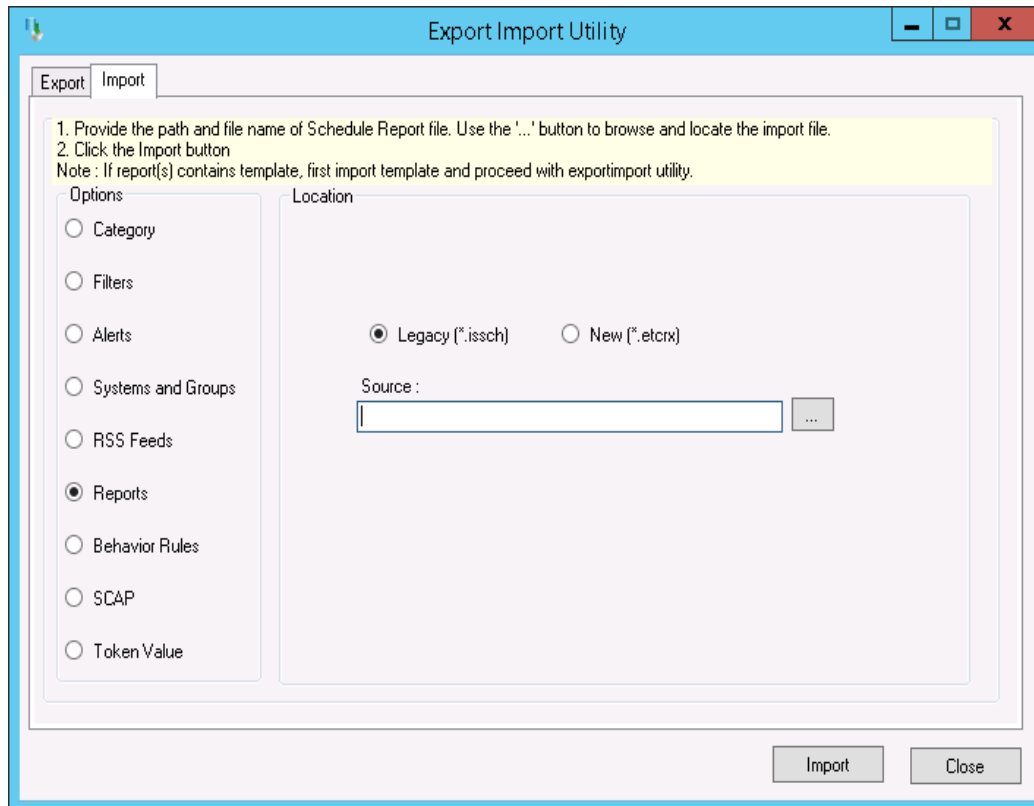


Figure 10

3. To import reports, click the **Import** button. EventTracker displays success message.

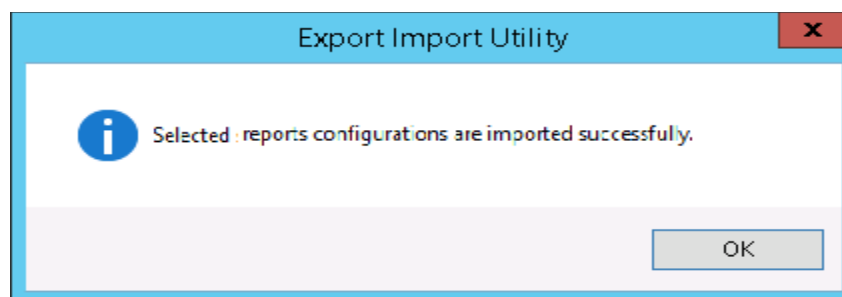


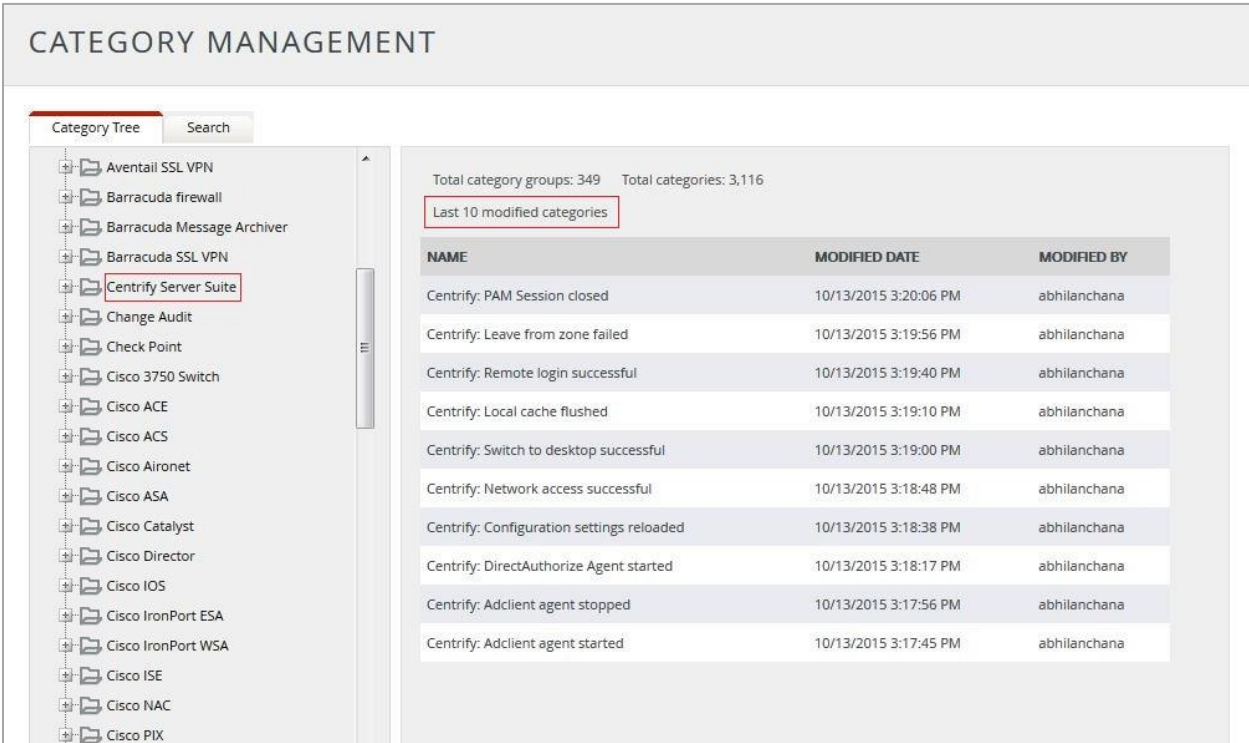
Figure 11

4. Click **OK**, and then click the **Close** button.

Verify Centrify Server Suite knowledge pack in EventTracker

Verify Categories

1. Logon to **EventTracker Enterprise**.
2. Click the **Admin** menu, and then click **Categories**.
3. To view the imported categories, in the **Category Tree**, expand **Centrify Server Suite** group, expand **Unix Agent** and **Windows Agent** subgroup folders.



CATEGORY MANAGEMENT

Category Tree Search

- Aventail SSL VPN
- Barracuda firewall
- Barracuda Message Archiver
- Barracuda SSL VPN
- Centrify Server Suite
- Change Audit
- Check Point
- Cisco 3750 Switch
- Cisco ACE
- Cisco ACS
- Cisco Aironet
- Cisco ASA
- Cisco Catalyst
- Cisco Director
- Cisco IOS
- Cisco IronPort ESA
- Cisco IronPort WSA
- Cisco ISE
- Cisco NAC
- Cisco PIX

Total category groups: 349 Total categories: 3,116

Last 10 modified categories

NAME	MODIFIED DATE	MODIFIED BY
Centrify: PAM Session closed	10/13/2015 3:20:06 PM	abhilanchana
Centrify: Leave from zone failed	10/13/2015 3:19:56 PM	abhilanchana
Centrify: Remote login successful	10/13/2015 3:19:40 PM	abhilanchana
Centrify: Local cache flushed	10/13/2015 3:19:10 PM	abhilanchana
Centrify: Switch to desktop successful	10/13/2015 3:19:00 PM	abhilanchana
Centrify: Network access successful	10/13/2015 3:18:48 PM	abhilanchana
Centrify: Configuration settings reloaded	10/13/2015 3:18:38 PM	abhilanchana
Centrify: DirectAuthorize Agent started	10/13/2015 3:18:17 PM	abhilanchana
Centrify: Adclient agent stopped	10/13/2015 3:17:56 PM	abhilanchana
Centrify: Adclient agent started	10/13/2015 3:17:45 PM	abhilanchana

Figure 12

Verify Alerts

1. Logon to **EventTracker Enterprise**.
2. Click the **Admin** menu, and then click **Alerts**.
3. In the **Search** box, type **Centrify**, and then click the **GO** button.
Alert Management page will display all the imported alerts.

ALERT MANAGEMENT Search by Alert name

Click 'Activate Now' after making all changes Total: 11 Page Size 25

<input type="checkbox"/>	ALERT NAME ^	THREAT	ACTIVE	E-MAIL	MESSAGE	RSS	FORWARD AS SNMP	FORWARD AS SYSLOG	REMEDIAL ACTION AT CONSOLE	REMEDIAL ACTION AT AGENT	APPLIES TO
<input type="checkbox"/>	Centrify: Adclient agent stopped	<input type="checkbox"/> Critical	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Centrify Server S...
<input type="checkbox"/>	Centrify: Configuration settings reloa...	<input type="checkbox"/> Medium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Centrify Server S...
<input type="checkbox"/>	Centrify: Create desktop failed	<input type="checkbox"/> High	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Centrify Server S...
<input type="checkbox"/>	Centrify: DirectAuthorize agent stopp...	<input type="checkbox"/> Critical	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Centrify Server S...
<input type="checkbox"/>	Centrify: Dzdo execution denied	<input type="checkbox"/> High	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Centrify Server S...
<input type="checkbox"/>	Centrify: Dzdo execution granted	<input type="checkbox"/> Medium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Centrify Server S...
<input type="checkbox"/>	Centrify: Join to zone success.	<input type="checkbox"/> High	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Centrify Server S...
<input type="checkbox"/>	Centrify: PAM Authentication failed	<input type="checkbox"/> Serious	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Centrify Server S...
<input type="checkbox"/>	Centrify: Remote login failed	<input type="checkbox"/> Serious	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Centrify Server S...
<input type="checkbox"/>	Centrify: Run as role attempt failed	<input type="checkbox"/> Serious	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Centrify Server S...
<input type="checkbox"/>	Centrify: SSHD denied	<input type="checkbox"/> High	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Centrify Server S...

Figure 13

- To activate the imported alerts, select the respective checkbox in the **Active** column.

EventTracker displays message box.

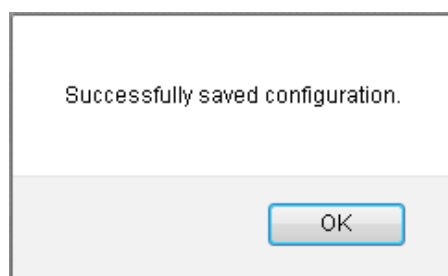


Figure 14

- Click **OK**, and then click the **Activate Now** button.

NOTE: You can select alert notification such as Beep, Email, and Message etc. For this, select the respective checkbox in the Alert management page, and then click the **Activate Now** button.

Verify Tokens

1. Logon to **EventTracker Enterprise**.
2. Click the **Admin** menu, and then click **Parsing Rules**.
The imported Centrify Server Suite tokens are added in Token-Value Groups list.

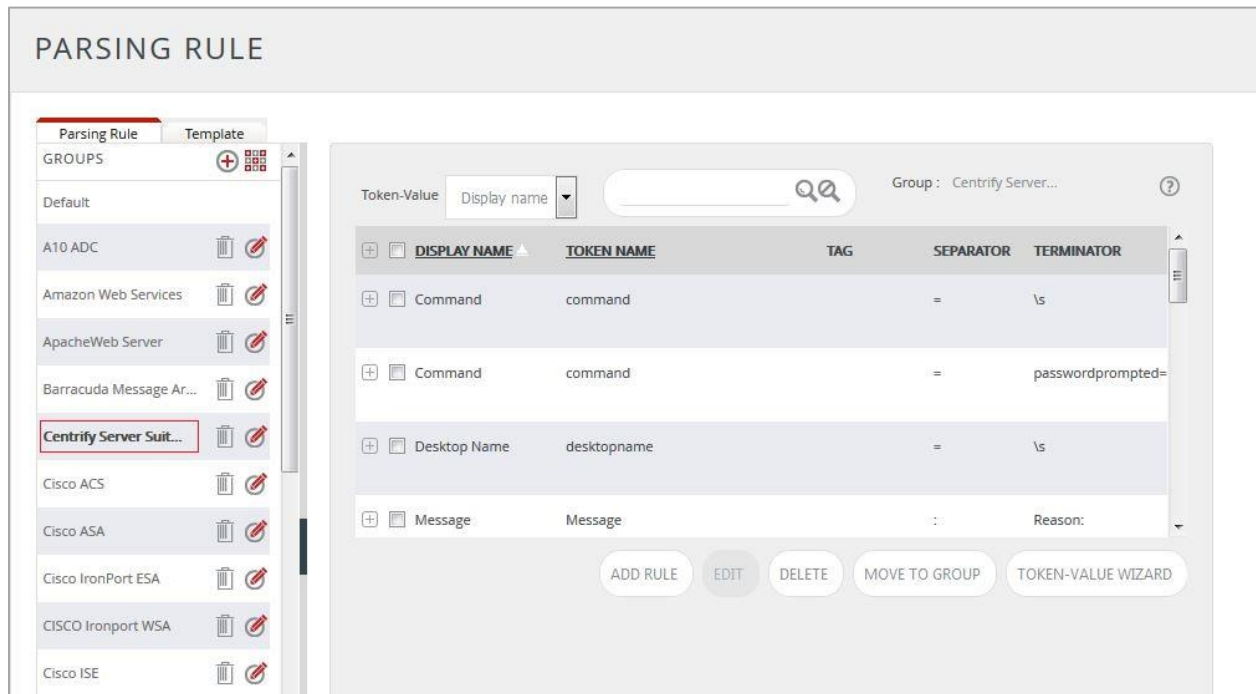


Figure 15

NOTE: Please specify appropriate **systems** in **Report wizard** for better performance.

Verify Reports

1. Logon to **EventTracker Enterprise**.
2. Click the **Reports** menu, and then **Configuration**.
3. Select **Defined** in report type.
4. In **Report Groups Tree** to view imported Scheduled Reports, scroll down and click **Centrify Server Suite** group folder.

Scheduled Reports are displayed in the Reports configuration pane.

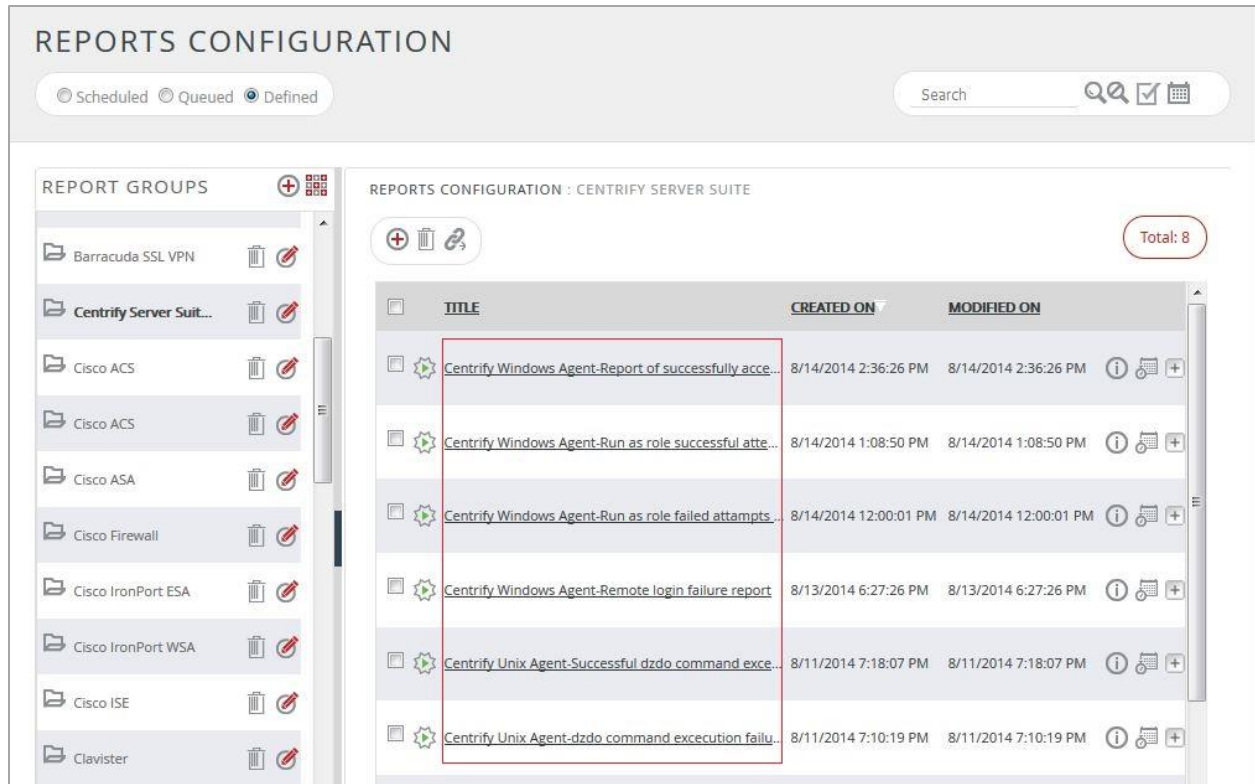


Figure 16

Create Dashboards in EventTracker

Schedule Reports

1. Open **EventTracker** in browser and logon.

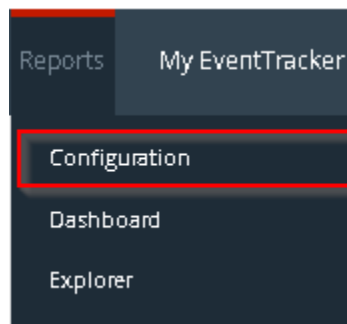


Figure 17

2. Navigate to **Reports>Configuration**.

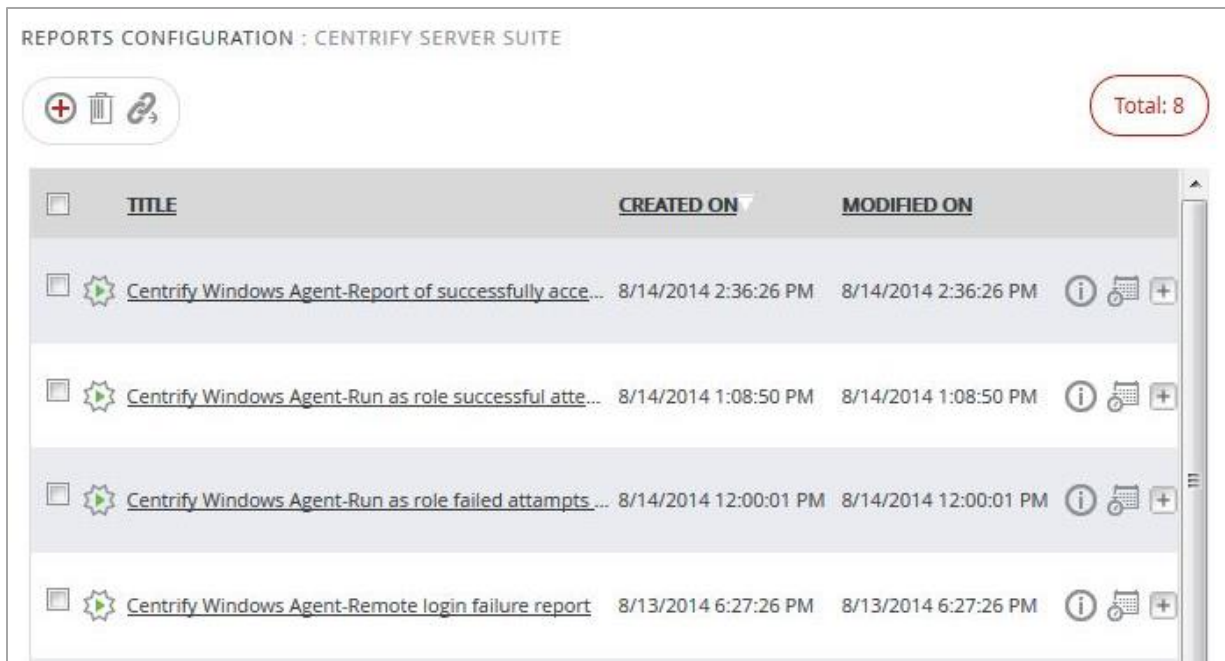


Figure 18

3. Select **Centrify Server Suite** in report groups. Check **Defined** option.
4. Click on 'schedule' to plan a report for later execution.

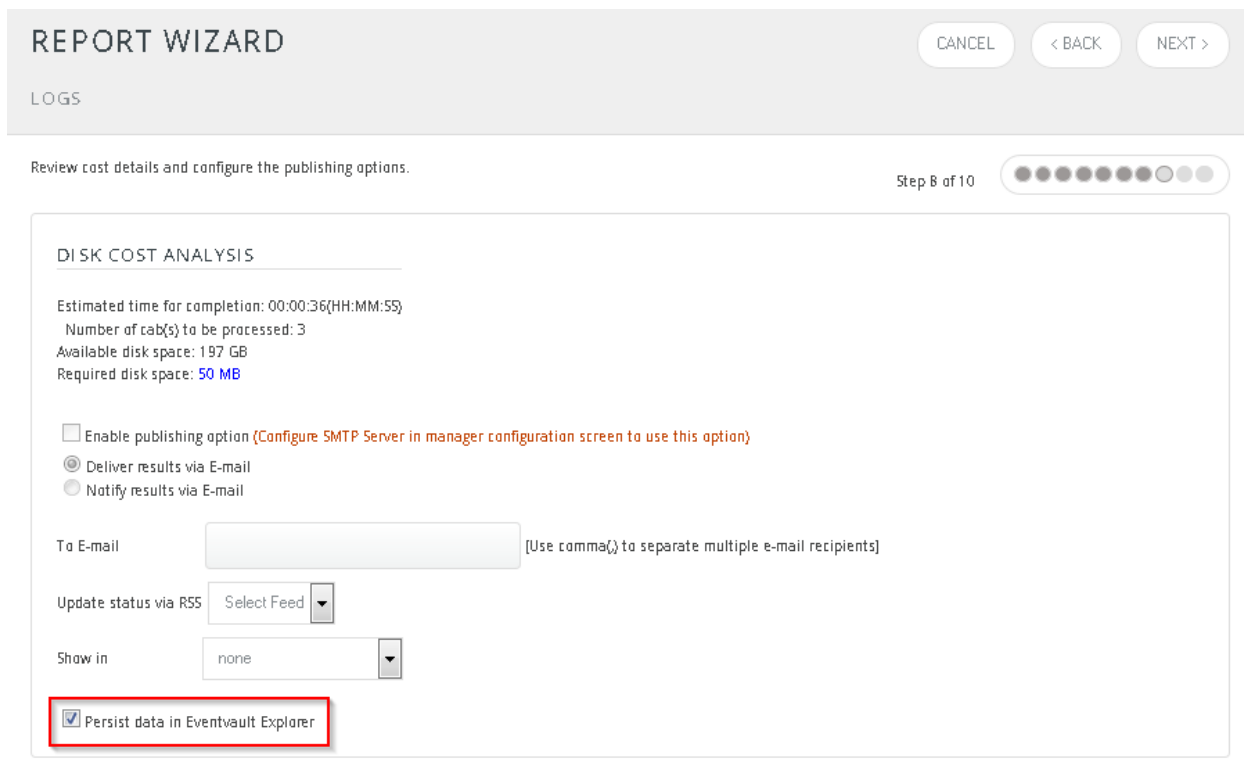
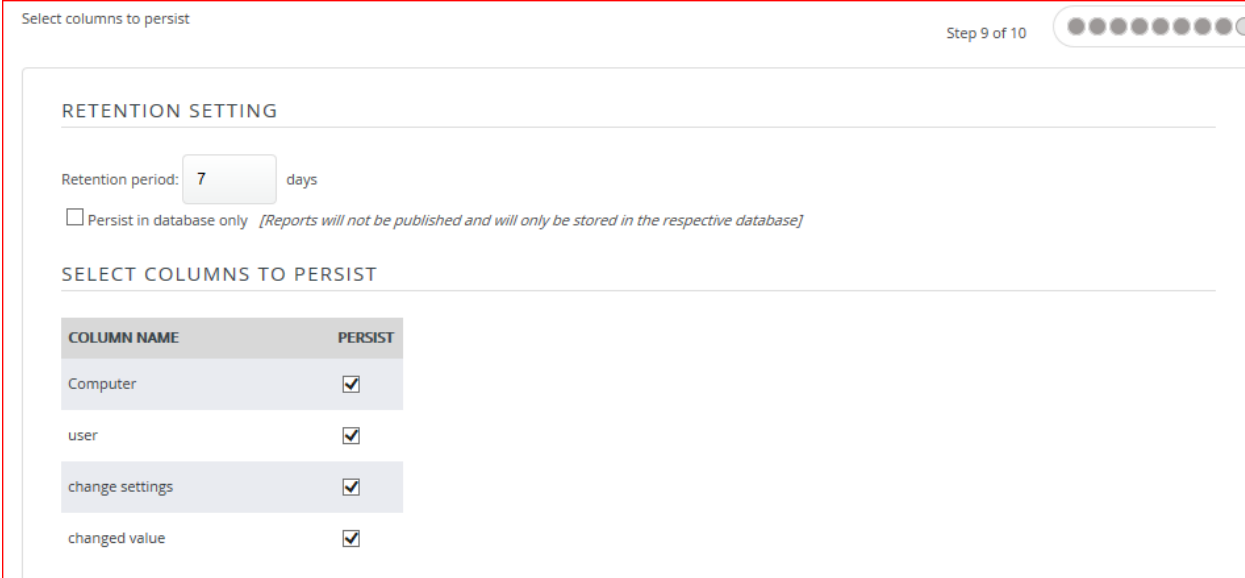


Figure 19

- Choose appropriate time for report execution and in **Step 8** check **Persist data in Eventvault explorer** box.



Select columns to persist Step 9 of 10

RETENTION SETTING

Retention period: days

Persist in database only *[Reports will not be published and will only be stored in the respective database]*

SELECT COLUMNS TO PERSIST

COLUMN NAME	PERSIST
Computer	<input checked="" type="checkbox"/>
user	<input checked="" type="checkbox"/>
change settings	<input checked="" type="checkbox"/>
changed value	<input checked="" type="checkbox"/>

Figure 20

- Check column names to persist using **PERSIST** checkboxes beside them. Choose suitable **Retention period**.
- Proceed to next step and click **Schedule** button.
- Wait for scheduled time or generate report manually.

Create Dashlets

- EventTracker 8** is required to configure flex dashboard.
- Open **EventTracker** in browser and logon.

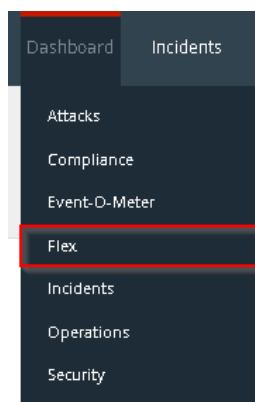


Figure 21

3. Navigate to **Dashboard>Flex**.

Flex Dashboard pane is shown.

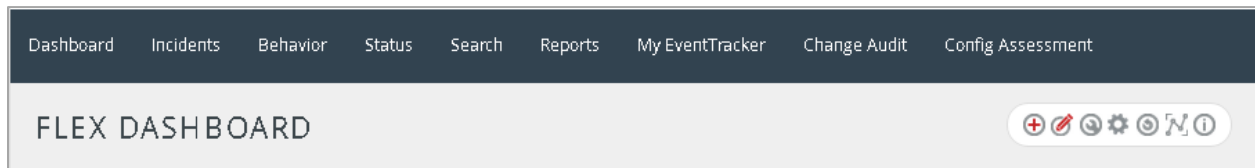




Figure 22

4. Click  to add a new dashboard.

Flex Dashboard configuration pane is shown.

Figure 23

5. Fill fitting title and description and click **Save** button.
6. Click  to configure a new flex dashlet.

Widget configuration pane is shown.

WIDGET CONFIGURATION

WIDGET TITLE
Centrify-Server-Suite-Pam-Authentication-Status

NOTE

DATA SOURCE
centrify Pam Authentication Status

CHART TYPE Donut | **DURATION** 12 Hours | **VALUE FIELD SETTING** COUNT | **AS OF** Now

AXIS LABELS [X-AXIS] Reason | **LABEL TEXT**

VALUES [Y-AXIS] Select column | **VALUE TEXT**

FILTER Select column | **FILTER VALUES**

LEGEND [SERIES] Select column | **SELECT** All

Figure 24

7. Locate earlier scheduled report in **Data Source** dropdown.
8. Select **Chart Type** from dropdown.
9. Select extent of data to be displayed in **Duration** dropdown.
10. Select computation type in **Value Field Setting** dropdown.
11. Select evaluation duration in **As Of** dropdown.
12. Select comparable values in **X Axis** with suitable label.
13. Select numeric values in **Y Axis** with suitable label.
14. Select comparable sequence in **Legend**.
15. Click **Test** button to evaluate.

Evaluated chart is shown.

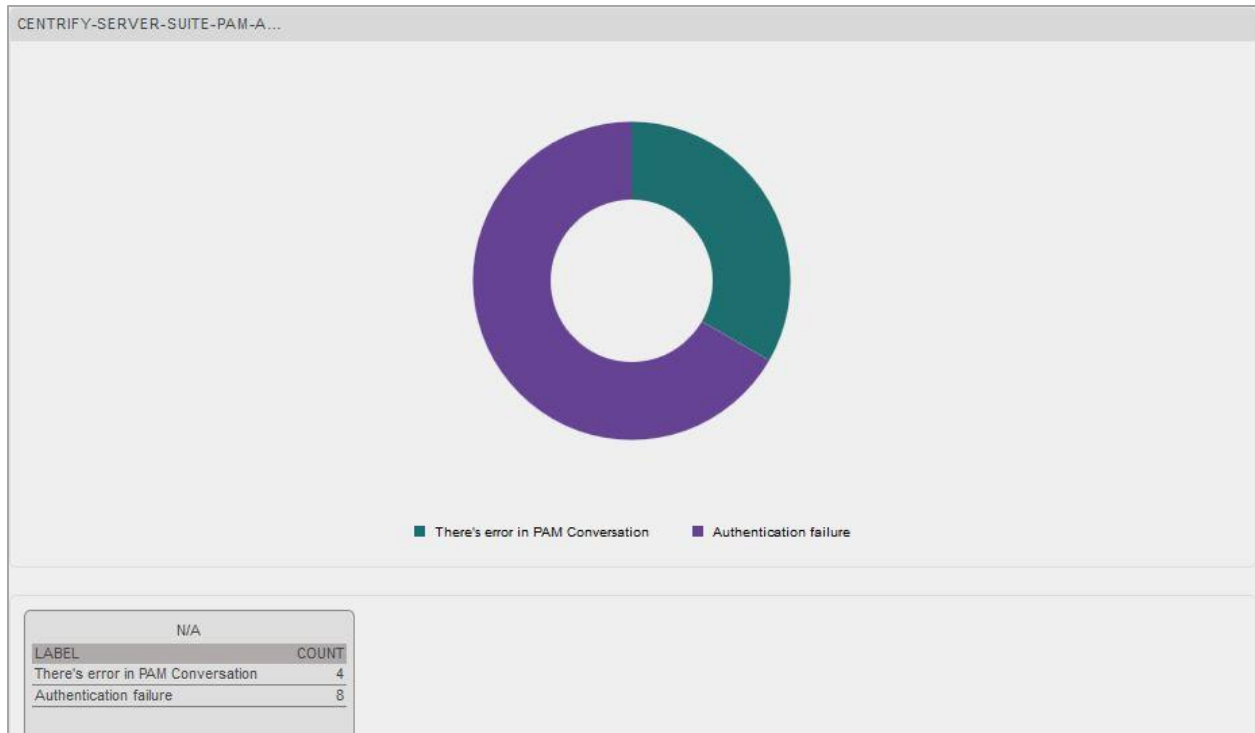


Figure 25

16. If satisfied, click **Configure** button.

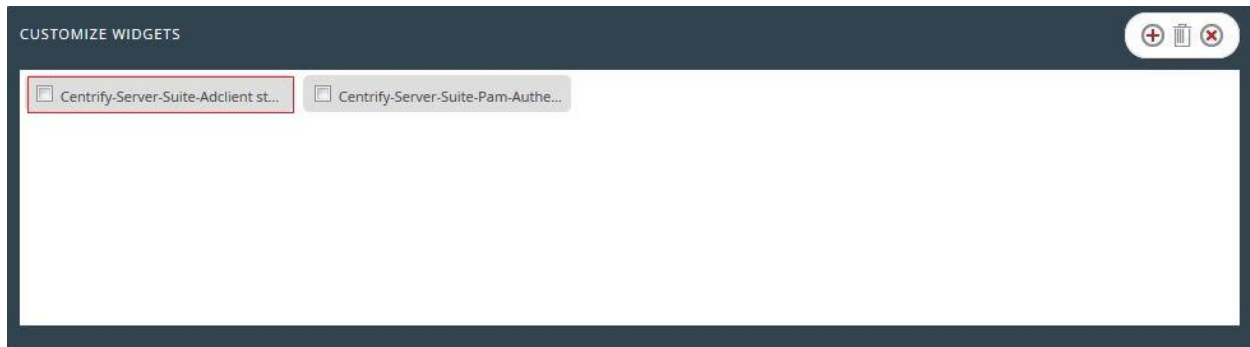




Figure 26

17. Click 'customize'  to locate and choose created dashlet

18. Click  to add dashlet to earlier created dashboard.

Sample Dashboards

1. Centrify-Server-Suite Adclient Status



Figure 27

2. Centrify-Server-Suite PAM Authentication Status

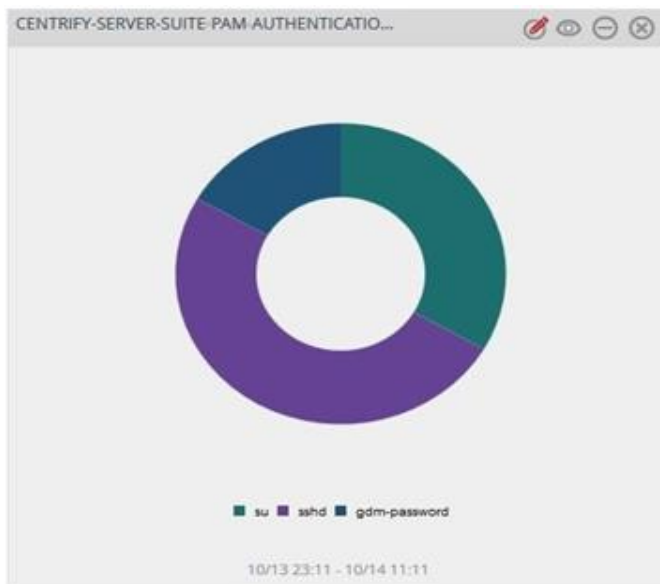


Figure 28

Sample Reports

1. Centrify-Server-Suite PAM Authentication Status

Centrify Pam Authentication Status						
LogTime	User	Client IP	Service	TTY	Status	Reason
10/13/2015 06:57:20 PM	Jack	none	gdm-password	:0	DENIED	There's error in PAM Conversation
10/13/2015 06:57:20 PM	Johnson	none	su	pts/0	DENIED	Authentication failure
10/13/2015 06:57:20 PM	Michel	192.168.1.20	sshd	ssh	GRANTED	
10/13/2015 06:57:20 PM	Mary	192.168.1.20	sshd	ssh	GRANTED	
10/13/2015 06:57:20 PM	John	none	su	pts/0	GRANTED	
10/13/2015 06:57:21 PM	Harsh	192.168.1.40	sshd	ssh	DENIED	Authentication failure
10/14/2015 09:49:41 AM	Harsh	192.168.1.40	sshd	ssh	DENIED	Authentication failure
10/14/2015 09:49:41 AM	Jack	none	gdm-password	:0	DENIED	There's error in PAM Conversation
10/14/2015 09:49:41 AM	Johnson	none	su	pts/0	DENIED	Authentication failure
10/14/2015 09:49:43 AM	Michel	192.168.1.20	sshd	ssh	GRANTED	
10/14/2015 09:49:43 AM	Mary	192.168.1.20	sshd	ssh	GRANTED	
10/14/2015 09:49:43 AM	John	none	su	pts/0	GRANTED	
10/14/2015 09:50:29 AM	Jack	none	gdm-password	:0	DENIED	There's error in PAM Conversation
10/14/2015 09:50:29 AM	Harsh	192.168.1.40	sshd	ssh	DENIED	Authentication failure
10/14/2015 09:50:29 AM	Johnson	none	su	pts/0	DENIED	Authentication failure
10/14/2015 09:50:30 AM	John	none	su	pts/0	GRANTED	
10/14/2015 09:50:30 AM	Michel	192.168.1.20	sshd	ssh	GRANTED	
10/14/2015 09:50:30 AM	Mary	192.168.1.20	sshd	ssh	GRANTED	
10/14/2015 09:50:31 AM	Harsh	192.168.1.40	sshd	ssh	DENIED	Authentication failure
10/14/2015 09:50:31 AM	Jack	none	gdm-password	:0	DENIED	There's error in PAM Conversation

Figure 27

2. Centrify-Server-Suite Adclient Status

Centrify Adclient Agent Started and Stopped				
LogTime	Computer	User Name	service name	service status
10/14/2015 10 32:49 AM	CENTRIFY	maria	adclient	started
10/14/2015 10 32:49 AM	CENTRIFY	johnson	adclient	started
10/14/2015 10 32:49 AM	CENTRIFY	johanas	adclient	started
10/14/2015 10 32:49 AM	CENTRIFY	julia	adclient	stopped
10/14/2015 10 32:49 AM	CENTRIFY	robert	adclient	stopped
10/14/2015 10 32:49 AM	CENTRIFY	michel	adclient	stopped
10/14/2015 10 32:50 AM	CENTRIFY	maria	adclient	started
10/14/2015 10 32:50 AM	CENTRIFY	johanas	adclient	started
10/14/2015 10 32:50 AM	CENTRIFY	johnson	adclient	started
10/14/2015 10 32:51 AM	CENTRIFY	julia	adclient	stopped
10/14/2015 10 32:51 AM	CENTRIFY	robert	adclient	stopped
10/14/2015 10 32:51 AM	CENTRIFY	michel	adclient	stopped
10/14/2015 10 36:53 AM	CENTRIFY	johanas	adclient	started
10/14/2015 10 36:53 AM	CENTRIFY	maria	adclient	started
10/14/2015 10 36:53 AM	CENTRIFY	johnson	adclient	started
10/14/2015 10 36:54 AM	CENTRIFY	julia	adclient	stopped
10/14/2015 10 36:54 AM	CENTRIFY	robert	adclient	stopped
10/14/2015 10 36:54 AM	CENTRIFY	michel	adclient	stopped
10/14/2015 10 36:55 AM	CENTRIFY	julia	adclient	stopped
10/14/2015 10 36:55 AM	CENTRIFY	robert	adclient	stopped
10/14/2015 10 36:55 AM	CENTRIFY	michel	adclient	stopped

Figure 28