

Integrate Pulse Secure Access

EventTracker v9.0 and Above

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Abstract

This guide provides instructions to configure Pulse Secure Access to generate logs for critical events. Once EventTracker is configured to collect and parse these logs, dashboard and reports can be configured to monitor the application and user activities.

Scope

The configurations detailed in this guide are consistent with EventTracker version 9.x and later, and Pulse Secure Access and later.

Audience

IT admins, Pulse Secure Access administrator, and EventTracker users who wish to forward logs to EventTracker and monitor events using EventTracker.

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Overview

Pulse Secure Access's suite offers complete, end-to-end usability, visibility, and protection to enable remote, mobile and cloud access to hybrid IT services and applications from any device.

Pulse Secure Access can be integrated with EventTracker using syslog. With the help of Pulse Secure Access knowledge pack, we can monitor the user URI requests, user login, and logout, user connection status on applications and trigger the alert whenever any user authentication failure is detected. EventTracker dashboard will help you to visualize the web activities on applications. It can even create the report which helps to collect user activities happening in the applications for a time interval. This will help you to review the different user activities. EventTracker CIM will help you to correlate the web requests from users, and user connection status with another log sources like web requests, user activities, user connection status, etc.

Prerequisites

- EventTracker v9.x or above should be installed.
- Pulse Secure Access should be installed.

Configuring Pulse Secure Access syslog

To configure reporting to a syslog server:

- 1. Login into Pulse Secure Access admin console.
- 2. Select System > Log/Monitoring.
- 3. Click the **Settings** tab to display the configuration page.
- 4. Specify the maximum log size and select the events to be logged. Specify the server configuration as described in.

Note: Select all in the Select Events to Log.

- 5. Fill details and click Add. You can specify multiple syslog servers.
 - Server name/IP: Specify the fully qualified domain name or IP address for the syslog server.
 - **Facility**: Select a syslog server facility level (LOCAL0-LOCAL7). Your syslog server must accept messages with the following settings: facility = LOG_USER and level = LOG_INFO.
 - Type: Select the connection type to the syslog server. You can select:
 - UDP (User Datagram Protocol) A simple non-secure transport model.
 - TCP (Transmission Control Protocol) -A core protocol of the Internet Protocol suite (IP), but lacks strong security.



- **Filter**: Select a filter format. Any custom filter format and the following predefined filter formats are available:
 - Standard(default)—This log filter format logs the date, time, node, source IP address, user, realm, event ID, and message.

Note: Select Standard(default) as a Filter.

6. Save the configuration.

NOTE: To enable syslog reporting for each local log category, you must perform this procedure on each local log tab: Events, User Access, Admin Access, and Sensors

		والمراقلة وال							Pulse Connect Secu	re
S PI	ulse Se	cure System	Authentica	tion Adm	ninistrators	Users M	aintenance Wia	zards		1.
g/Monitorin	g > Events > Log set	tings								
og setting	1s									
Events	User Access	Admin Access	Sensors	Client Logs	SNMP	Statistics				
Log Setti	ngo Filters									
Save	Changes Rese	t								
_										
* Meximun	Log Size									
Max L	og Size:	200 MB								
	,									
Note:	To archive log data	a, see the Archiving pa	ge.							
/ Select Ev	ents to Log									
E Co	nnection Requests	Statistics								
R Sy	stem Status	Performance								
Re Re	write	Reverse Praky								
🕑 Sy	stem Errors	Email Proxy Events								
	OM APE Trace									
Pu Pu	he One Events									
€ HT	ML5 Access Events									
System Se	ITVERS.									
- ayong as										
Event	is are logged locally	y. You can also log ther	n to one or more	external Sys	slog servers.					
Dest	and an									
De	ere									
0	Server name/IP		Facility		Туре		Client Certificate	Filter		
	-									-
	L		LOCALO		UDP	•	Select Client Cer	t • Standard: Standard	i (default) *	Add
-										
Save	changes Rese	L								

Figure 1

EventTracker Knowledge Pack (KP)

Once logs are received in EventTracker; alert, reports and dashboards can be configured in the EventTracker.

The following Knowledge Packs are available in the EventTracker v9.x and later to support Pulse Secure Access.

Alert

• **Pulse Secure Access: Authentication failure** – This alert will trigger whenever the user authentication fails.

Reports

• Pulse Secure Access – Web connection activities – This report provides information related to the user requesting detail like user IP address, URI, how many bytes are received and sent.

LogTime	User Name	Source IP Address	Requested URI	Total Bytes Expected	Total Bytes Received
03/27/2019 04:49:45 PM	contosowork1\mark	20.10.11.12	/dana- na/hc/hcif.cgi?cmd=getzipfile&f=0 PSWAT/UnifiedV4/Windows/dlls/U nifiedSDK		0
03/27/2019 04:52:28 PM	contosowork2\matt	20.10.11.127	1	0	0

Figure 2

• Pulse Secure Access – User login and logout – This report provides information related to user login and logout from user agent, IP address.

LogTime	User Name	User Agent	Company Name	Source IP Address	Status
03/27/2019 04:54:46 PM	mathew		CONTOSOAT	10.6.68.4	Logout
03/27/2019 04:54:47 PM	john	PulseSecureiPhone(Compatible with JunosPulseiPhone) Mozilla/5.0 (iPhone; CPU iPhone OS 12_1_4 like Mac OS X) AppleWebKit/605.1.15 (KHTML, like Gecko) Mobile/16D57 PulseSecure(Version- 7.1.1.78493)iPhone.	CONTOSOAT	20.11.12.30	Login succeeded
03/27/2019 04:54:49 PM	william		CONTOSOWORK1	31.40.12.23	Logout
03/27/2019 04:54:54 PM	mark		CONTOSOWORK	40.123.110.18	Logout
03/27/2019 04:54:56 PM	jerry		CONTOSOWORK4	50.10.43.10	Logout
03/27/2019 04:55:00 PM	matt	Mozilla/5.0 (Windows NT 6.2; WOW64; Trident/7.0; rv:11.0) like Gecko.	contosowork3	15.10.43.98	Login succeeded

 Pulse Secure Access – Authentication success - This report provides information related to the user authentication success.

LogTime	User Name	Authentication Server	Company Name	Destination IP Address
03/27/2019 04:47:52 PM	mat	CONTOSOTWORK/STATION/284/M AT	CONTOSOWORK3	71.20.111.10
03/27/2019 04:47:55 PM	jerry	CONTOSOTWORK/STATION/284/J ERRY	CONTOSOWORK2	10.81.95.41
03/27/2019 04:47:57 PM	jack	CONTOSO	CONTOSOTAM	41.20.188.43
03/27/2019 04:47:57 PM	andrew	NEW/CONTOSO/WORKSTATION/A ND	NEWWORKSTATION	10.20.10.11

Figure 4

• **Pulse Secure Access – Authentication failure** - This report provides information related to user authentication failed.

LogTime	User Name	Company Name	Authentication Server	Destination IP Address
03/27/2019 04:47:59 PM	jack	CONTOSOTWORK/STATION/284/M AT	CONTOSOWORK3	21.54.98.34
03/27/2019 04:47:59 PM	matt	CONTOSOTWORK/STATION/284/J ERRY	CONTOSOWORK2	32.45.65.43
03/27/2019 04:48:40 PM	andy	CONTOSO	CONTOSOTAM	21.56.83.92
03/27/2019 04:48:40 PM	john	NEW/CONTOSO/WORKSTATION/A ND	NEWWORKSTATION	10.20.43.28

Figure 5

 Pulse Secure Access – Access connection detail – This report provides information related to user details like destination IP address, port number, company name, user name, how many bytes are received and access connection status.

LogTime	User Name	Company Name	Destination IP Address	Port	Bytes Read	Bytes Written	Status
03/27/2019 04:48:01 PM	ven	CONTOSOWORK1	9.57.98.30	3389			Connected
03/27/2019 04:49:00 PM	mat	CONTOSOWORK1	TUN-VPN	443	157	0	Closed connection
03/27/2019 04:49:14 PM	joe	Freelancers	9.39.10.76	3389			Connected
03/27/2019 04:49:17 PM	derek	CONTOSOANL	9.41.98.230	3389	193945306	6566751	Closed connection
03/27/2019 04:49:17 PM	john		9.47.98.56	3389	1203	316	Closed connection
03/27/2019 04:49:17 PM	dany	CONTOSOSTAT	9.45.28.97	3389			Connected

Figure 6

Dashboards

• **Pulse Secure Access Authentication failed** – This dashboard shows information about the top ten user authentication failed.





 Pulse Secure Access Authentication Success – This dashboard shows information about user authentication success.



Figure 8



• **Pulse Secure Access Web Connection Details** – This dashboard shows information about user name, client IP address, port, user connectivity status.





 Pulse Secure Access User login and logout – This dashboard shows information about the user login and log out.







• **Pulse Secure Access Web Request Activities** – This dashboard shows information about web requests from IP address connected, user name, URI, the total count of bytes sent and received.



Pulse Secure Top 10 Ports Accessed – This dashboard shows information about the ports frequently
accessed by the client.



Figure 12



Importing Knowledge Pack into EventTracker

- 1. Launch the EventTracker Control Panel.
- 2. Double click Export/Import Utility, and then click the Import tab.



3. Import Tokens/Flex Reports as given below.

Alerts

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



 Provide the path and file na 2. Click the Import button. Options Category 	ame of the Alerts file. Use the '' buttor	to browse and locate the import file.
Filters	Import E-mail settings	
Alerts	Set Active	This setting is applicable only for imports from Legacy
Systems and Groups	Only if notifications set	(v6x) Alert files. For v7, the active status will be set based on "Active" key available in the configuration
RSS Feeds		SECTOR.
Reports	Source :	
Behavior Rules	".isalt	
SCAP		
🔘 Token Value		



- 2. Locate Alerts_Pulse Secure Access.isalt file, and then click the Open button.
- 3. To import alerts, click the **Import** button.

EventTracker displays a success message.



Figure 15

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

Knowledge Objects

- 1. Click Knowledge objects under the Admin option in the EventTracker page.
- 2. Locate the file named KO_Pulse Secure Access.etko.



Import		×
KO_Pulse Secure Access.etko 🖆 Bro	owse Upload	
		Close
		Close

Figure 16

3. Now select all the checkbox and then click on the 'Import' \mathbb{I} button option.



Impor	t		×
Sele	ct file		🗁 Browse Upload
	Object name	Applies to	Group name
	Pulse Secure Access Authentication Failed		Pulse Secure Access
	Pulse Secure Access Authentication Success		Pulse Secure Access
	Pulse Secure Access Connection Details		Pulse Secure Access
	Pulse Secure User Login and logout		Pulse Secure Access
\checkmark	Pulse Secure Web Request Activities		Pulse Secure Access
			Import Close

4. Knowledge objects are now imported successfully.



Figure 18

Token Template

- 1. Login to the EventTracker.
- 2. Click on Admin >> Parsing Rules.



		🐥 Admin -	Tools v
Active Watch Lists	Event Filters	😥 Parsing Rules	
Alerts	Eventvault	🗐 Report Settings	÷
m 🖲 Behavior Correlation Rules	FAQ Tile Configuration	Systems	
🗞 Behavior Correlation Settings	Croup Management	Q Users	
Casebook Configuration	🔍 IP Lookup Configuration	r Weights	
● Category	· 💮 Knowledge Objects	Windows Agent Config	
Diagnostics	Manager		

3. Click on Template and click import configuration Symbol.

Parsing Rule	S				Admin / Parsing Rules
Parsing Rule	Template				
Groups	(+)	Group : All	Search	Q	CIT
Default	^				

Figure 20

4. Locate the Template_Pulse secure Access.ettd file and click on the Import.



💿 Token Template - Mozilla Firefox											
G	localhost:8080/EventTracker/Analysis/TokenTemp	olateImportE	xport.aspx?Type=Import			⊌ t					
In	nport										
s	elected file is: Template_Pulse Secure Access.ettd										
I	Template name	Separator	Template description	Added date	Added by	Group Name	^				
Б	Pulse Secure Access - Access connection details	\n	Mar 19 11:27:52 9.10.11.12 1 2019-03-19T11:27:52Z remote.contoso.co.uk P ulseSecure: 2019-03-19 11:27:52 - DO-PSA7000 - [10.11.12.13] Contos o\matt()[] - Closed connection to 101.21.8.30 port 3389 after 7263 second s, with 193945306 bytes read (in 181284 chunks) and 6566751 bytes written (in 123120 chunks)	Mar 27 05:35:16 PM	ETAdmin	PulseSecureAcces	5				
E	✓ Pulse Secure Access - Authentication failed	\n	Nov 27 16:18:40 9.11.23.42 254 < 134> 2017-11-27T16:18:40-05:00 wip.cont oso.com PulseSecure: 2017-11-27 16:18:40 - WIP-Primary - [25.65.76.78] c ontoso\jerk(Weston Corporate Windows Assets)[] - Primary authenticatio n failed for contoso\jerk/WIP_AD from 25.65.76.78	Mar 27 05:11:33 PM	ETAdmin	PulseSecureAcces	5				
E	Pulse Secure Access - Authentication success	\n	Nov 27 16:18:44 9.11.23.42 2017-11-27T16:18:43-05:00 wip.contoso.com Pu IseSecure: 2017-11-27 16:18:43 - WIP-Primary - [25:65.76.78] contoso\jerk (Weston Corporate Windows Assets)[Employee] - Primary authentication successful for contoso\jerk/WIP_AD from 25:65.76.78	Mar 27 05:16:11 PM	ETAdmin	PulseSecureAcces	5				
E	Pulse Secure Access - User login and logout	\n	Mar 19 12:06:44 9.10.11.12 1 2019-03-19T12:06:44Z remote.contoso.co.uk P ulseSecure: 2019-03-19 12:06:44 - DO-PSA7000 - [20.82.45.61] contos o\ven-jade.s(contoso-work1)[contoso-role] - Login succeeded for contos o\ven-jade.s/contoso-work1 (session:00000000) from 20.13.41.53 with Mo zilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.119 Safari/537.36.	Mar 27 05:43:39 PM	ETAdmin	PulseSecureAcces	5				
6	Pulse Secure Access - Web request	\n	Mar 17 07:58:56 9.10.11.12 1 2019-03-17T07:58:56Z remote.contoso.co.uk P ulseSecure: 2019-03-17 07:58:56 - DO-PSA7000 - [20.14.51.98] contos o\ven.warren(contoso)[contoso-work1] - Web request connection from	Mar 27 07:03:23 PM	ETAdmin	PulseSecureAcces	5 V				

5. Templates are imported now successfully.



Figure 22

Flex Reports

1. Click **Reports** option and select new (.etcrx) from the option.



ote : If report(s) contains templa Options Category	te, first import template and proceed with exportimport Location	t utility.	
) Filters			
Alerts	O Legacy (*.issch) New (*.e	storx)	
Systems and Groups	Source :		
RSS Feeds	ISSCh		
Reports			
Behavior Rules			
) SCAP			
) Token Value			



2. Locate the file named Flex_Reports_Pulse Secure Access.etcrx and select all the checkbox.



	orts Im	port				;			
Select file E:\PRODUCT\puls secure K0 only\Updated KP\Rex_Reports_Pulse Secure Access.etcnx Select file									
Available reports									
Title			Frequency Show all	· ~ ~					
		Title	Sites	Groups	Systems	Frequency			
	EDIT	Pulse Secure Access - Access conne		Default	Pulssecure	Undefined			
	EDIT	Pulse Secure Access - Authentication		Default	Pulssecure	Undefined			
	EDIT	Pulse Secure Access - Authentication		Default	Pulssecure	Undefined			
	EDIT	Pulse Secure Access - User login and I		Default		Undefined			
	EDIT	Pulse Secure Access - Web connectio		Default	Pulssecure	Undefined			
<						3			
< Note	: Set ru	In time option is not applicable for Defined Repor	ts and Hourly Reports			>			
< Note Set	: Set ru run tin	n time option is not applicable for Defined Repor ne for report(s) from AM	ts and Hourly Reports at interval of minute 	es Set ①		2			
< Note Set Rep	: Set ru run tin lace (n time option is not applicable for Defined Repor ne for report(s) from AM to	ts and Hourly Reports • at interval of minute Rep	es Set ① lace Assign systems		>			



3. Click the Import button to import the reports. EventTracker displays a success message.





Dashlets

In EventTracker 9.0, we have added a new feature that will help to import/export dashlet. Following is the procedure to do that:



1. Login into EventTracker Web console.

Even	t Track	er⊕					
L Username							
Password							
Login							
8,333,946 logs processed since install on Dec 30, 2017							
35,002 logs processed today							
Contact Us	FAQ	Help					

Figure 26

2. Go to My Dashboard option.

Behavior Correlation
Compliance
My Dashboard
Home
Incidents
Threats
Q Search
Reports

Figure 27

3. Click on the **Import** button and select **.etwd** File.

	🕈 / Dashboard / My Dashboard
+ 🖉	9 🌣 🖻 1 🎞 9 ()
Figu	re 28



4. Click **Upload** and select Dashboard which you want to import.



-		×
•••	ত ব	☆ ≡
		^
th imp	orting	
/se	Uplo	bad
ccess	Conne.	
Impo	rt C	lose
	 th imp vse	- C Vpk

5. Click on the **Import** button. It will upload all selected dashboards.

Verifying Knowledge Pack in EventTracker

Alerts

- 1. Login to EventTracker.
- 2. Click the **Admin** menu, and then click **Alerts**.

	Event Tracker ⊕					🔎 Admin-	Tools -
	Home		Active Watch Lists	Collection Master	Group Management	Systems	🕈 / Dasht
q		_	Alerts	Correlation	🔍 IP Lookup Configuration	🛱 Users	
	0	2	Behavior Correlation Rules	▲ Diagnostics	· Knowledge Objects	The Weights	
			🇞 Behavior Correlation Settings	Event Filters	Manager	Windows Agent Config	
	Potential Cyber Breaches Indicators of Co Unsafe connections or processes, new TCP entry point USB activities. New ser		Casebook Configuration	Seventvault	🧭 Parsing Rules		
			ole Category	FAQ Configuration	Report Settings		
	Attacker		- News				

Figure 31

3. In the **Search** box, type **'Pulse Secure Access'**, and then click the **Go** button. Alert Management page will display all the imported alerts.

Alerts Alerts									
Show All						Search by	Alert name 🗸	pulse	Q, Q,
142 Available Alerts Total number of alerts available	44 Active Alerts Total number of active alerts			142 System/User Count for syste	System User Defined Alerts m and user defin	104 38 s eed alerts	142 Alerts by Count of a	Critical Low Serious 7 Threat Level alerts by threat level	15 5 19 4 21
Activate Now Click 'Activate Now' after making all changes								Total: 3	Page Size 25 🗸
Alert Name A	Threat	Active	E-mail	Forward as SNMP	Forward as Syslog	Remedial Action at Console	Remedial Action at Agent	Ар	plies To
□ 🖗 Pulse Secure Access: Authentication failed	•							Pulse Secure v8.0	
Pulse Secure Access: Authentication success	•							Pulse Secure v8.0	
□ 양양 Pulse Secure Access: Web requests	٠							Pulse Secure v8.0	

Figure 32

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

EventTracker displays a message box.



Figure 33

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

NOTE: Specify the appropriate **systems** in the **alert configuration** for better performance.

Knowledge Object

- 1. Login to EventTracker.
- 2. Click the Admin menu, and then click the Knowledge Object.
- In Knowledge Object Group Tree to view imported knowledge object, scroll down and click Pulse Secure Access group folder.

Knowledge Object is displayed in the pane.

Knowledge Objects	🕈 / Admin / Knowledge Objects
Pulse Secure Access Q Activate Now	Objects 🕀 Ţ 🏦 🇱
Groups 🕑 🧭 📋	Ĺ
Pulse Secure Access Aut Ø II Pulse Secure Access Aut Ø II Pulse Secure Access Con Ø II Pulse Secure Access User Ø II Pulse Secure Access Web Ø II	from the left panel.

Figure 34

Flex Reports

- 1. Login to EventTracker.
- 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 **Pulse Secure Access** group folder.

Reports are displayed in the Reports configuration pane.

	1 Reports / Report Configuration / Defined							
			Pulse Secure Access		Q Q	Ē	iV	
Rep	orts confi	guration: PulseSecure Access						
÷	Ü 🔗					Total:	5	
		Title	Created on	Modified on				
	₹\$	Pulse Secure Access - Web connection activities	Mar 27 07:57:24 PM	Jun 03 12:31:48 PM	i	8	+	
	£\$\$	Pulse Secure Access - User login and logout	Mar 27 07:54:01 PM	Jun 03 12:31:19 PM	í	2	+	
	***	Pulse Secure Access - Access connection details	Mar 27 07:50:19 PM	Jun 03 12:28:55 PM	(i)	5	+	
	£\$\$	Pulse Secure Access - Authentication success	Mar 27 07:42:41 PM	Jun 03 12:26:39 PM	(i)	8	+	
	***	Pulse Secure Access - Authentication failed	Mar 27 07:34:00 PM	Jun 03 12:25:45 PM	(j)	2	+	

Figure 35

Dashlets

- 1. Login to EventTracker.
- 2. Click the Dashboard menu, and then My Dashboard.
- 3. Then click on **Customize Dashlet** button (a) and search for **"Pulse Secure Access"**

Available dashlets				×
pulse Secure Access				Q
Pulse Secure Access	Authentica Pulse Secure Acc	ess Authentica Dulse Secure Act	cess Connectio Dulse Secure Access L	Jser Login
Pulse Secure Access	Veb Reque			
			Exp	ort Close

Figure 36



Token Template

- 1. Login to the EventTracker.
- 2. Click on Admin >> Parsing Rules.

		🐥 Admin v	Tools -
Active Watch Lists	Event Filters	🧭 Parsing Rules	
Alerts	Sector Eventvault	Report Settings	Ð
Behavior Correlation Rules	FAQ Tile Configuration	Systems	
behavior Correlation Settings	Group Management	Q Users	
Casebook Configuration	Q IP Lookup Configuration	r Weights	
● Category	· 🔆 Knowledge Objects	Windows Agent Config	
Diagnostics	Manager		



3. Click on Template and search for Pulse Secure Access.

					🕈 / Admin / Parsing Rules
Group : Pulse Secure Access	Pulse Secure Access	Q	Q		C 1 I
Template Name	Template Description	Added By	Added Date	Active	
Pulse Secure Access - Access connection details	Pulse Secure Access - Access connection details		3/27/2019 5:35:16 PM		Ø
Pulse Secure Access - Authentication failed	Pulse Secure Access - Authentication failed		3/27/2019 5:11:33 PM		0
Pulse Secure Access - Authentication success	Pulse Secure Access - Authentication success		3/27/2019 5:16:11 PM		Ø
Pulse Secure Access - User login and logout	Pulse Secure Access - User login and logout		3/27/2019 5:43:39 PM		0
Pulse Secure Access - Web request	Pulse Secure Access - Web request		3/27/2019 7:03:23 PM		0

Figure 38