

Pulse Policy Secure: Admission Control using McAfee ePO

Deployment Guide

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Pulse Policy Secure: Admission Control using McAfee ePO

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Alert-Based Admission Control with McAfee ePolicy Orchestrator (ePO)

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Purpose of this Guide

This guide describes how to configure Pulse Policy Secure (PPS) to provide Alert-based admission control protection for your network using McAfee ePolicy Orchestrator (ePO).

Overview

This section describes how to integrate McAfee ePO device with PPS to support alert-based admission control in your network.

Prerequisites

This guide assumes you are familiar with the use of the following products and their related terminology.

- Pulse Policy Secure at version 9.1R5.
- McAfee ePolicy Orchestrator (ePO) version 5.9.0 and above

Pulse Policy Secure (PPS) integration with the McAfee ePolicy Orchestrator (ePO) provides complete visibility of network endpoints and provide end to end network security. The PPS integration with McAfee ePO allows Admin to perform user access control based on alerts received from the McAfee ePO.

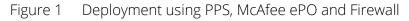
If ePO detects that an endpoint on the network has become non-compliant, ePO can send PPS the noncompliant IP address and an event label. PPS resolves the event as a property on the endpoint, and can take automated actions until the endpoint is remediated and becomes compliant.

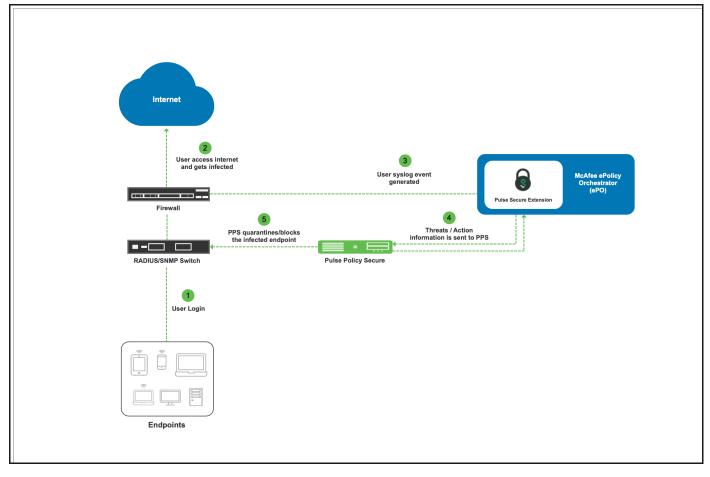
The authentication process is described below:

- 1. User downloads a malicious file from the Internet. The perimeter firewall scans the file and, based on user-defined policies, sends the file for analysis.
- 2. McAfee agent running on the Endpoint detects the malicious activity and sends the information to McAfee ePO.
- 3. Based on the alert rules configured on McAfee ePO, it generates alerts and sends automatically to PPS with the help of Pulse Policy Secure Extension.

- 4. McAfee ePO sends alert to PPS to isolate the endpoint from the network. The Alert includes severity for the affected endpoint to PPS.
- 5. The PPS server quarantines/blocks the endpoint based on the configured Admission control policies.

Note: McAfee ePO receives Threat events from different Endpoint Security (ENS) modules like Firewall, Threat Intelligence Exchange (TIE)/Adaptive Threat Protection (ATP), Threat Prevention and others.





In this example, the endpoint is connected to a third-party switch. The switch has 802.1X/MAB authentication enabled. As an alternate, SNMP enforcement mechanism can also be used.

Summary of Configuration

To prepare your network to perform alert-based admission control using Pulse Policy Secure, McAfee ePolicy Orchestrator (ePO) and Firewall, perform the following tasks:

- "Configuring PPS with McAfee ePO" on page 5
- "Configuring McAfee ePO" on page 9

The following sections describe each of these steps in detail.

Configuring PPS with McAfee ePO

The PPS configuration requires defining the McAfee ePO as a client in PPS. PPS acts as a REST API server for McAfee ePO.

A high-level overview of the configuration steps needed to set up and run the integration is described below:

- The Administrator configures the basic PPS configurations such as creating an authentication server, authentication realm, user roles, and role mapping rules.
- Configure McAfee ePolicy Orchestrator (ePO) as a client in PPS. PPS acts as a REST API Server for McAfee ePO. The REST API access for the admin user needs to be enabled by accessing the serial console or alternatively from the PPS admin UI (Authentication > Auth Server > Administrators > Users > click "admin", enable Allow access to REST APIs).
- Configure PPS to block/quarantine the endpoint based on the threat prevention policy.
- Configure the Switches/WLC as RADIUS Client in PPS (Endpoint Policy > Network Access > Radius Clients > New Radius Client). Switch should be configured with PPS as a RADIUS server.
- Configure RADIUS return attribute policies to define the action upon receiving the event.

Note: Ensure that PPS has the endpoint IP Address for the enforcement to work correctly.

This section covers the following topics:

- "Admission Control Template" on page 5
- "Admission Control Client" on page 6
- "Admission Control Policies" on page 7

Admission Control Template

The admission control template provides the list of possible events that can be received from the network security device along with regular expression to parse the message. The template also provides possible actions that can be taken for an event. PPS is loaded with default templates for McAfee ePolicy Orchestrator (ePO).

To view the admission control template in PPS:

1. Select Endpoint Policy > Admission Control > Templates.

Figure 2 McAfee ePO Template

0),		the little sector		(X, Y, G, M, M)	Pulse Policy Secure
$\mathbf{\hat{v}}$		Pulse Secure 🦻	stem Authentication Administra	ators Users Endpoint Policy	Maintenance Wizards	1.~
		Name	File Name	Protocol Type	Vendor	Device Type
	1	paloaltonetworksfw-ietf-bsd.itmpl Syslog integration with Palo Alto Networks Firewall using IETF/BSD format messages.	paloaltonetworksfw-ietf-bsd.itmpl	Syslog	Palo Alto Networks	Firewall
	2	fortigate-text.itmpl Syslog integration with Fortinet Fortigate Firewall using text format messages.	fortigate-text.itmpl	Syslog	Fortinet	Firewall
	3	nozomi-scadaguardian-cef.itmpl Syslog integration with Nozomi Network's SCADAguardian using CEF format messages.	nozomi-scadaguardian-cef.itmpl	Syslog	Nozomi Networks	SCADAguardian
	4	fortianalyzer-text.itmpl Syslog integration with FortiAnalyzer using text format messages.	fortianalyzer-text.itmpl	Syslog	Fortinet	Analyzer
	5	checkpointfw-syslog.ltmpl Syslog integration with Check Point firewall using syslog format messages.	checkpointfw-syslog.itmpl	Syslog	Check Point Software Technologies Ltd.	Firewall
	6	fortianalyzer-cef.itmpl Syslog integration with Forti Analyzer using CEF format messages.	fortianalyzer-cef.itmpl	Syslog	Fortinet	Analyzer
	7	fortigate-cef.itmpl Syslog integration with Fortinet Firewall using CEF format messages.	fortigate-cef.itmpl	Syslog	Fortinet	Firewall
	8	mcafee-epo-http.itmpl Integration with McAfee ePolicy Orchestrator which sends endpoint alerts to PPS	mcafee-epo-http.itmpl	НТТР	McAfee	McAfee ePolicy Orchestrator
	9	ibm-qradar-http.itmpl Integration with IBM Gradar which sends endpoint control commands/offenses to PPS	ibm-qradar-http.itmpl	НТТР	IBM Qradar	SIEM

Admission Control Client

The admission control clients are the network security devices on which the REST API is enabled. McAfee ePO forwards the events to PPS through REST API interface.

To add McAfee ePO as a client:

- 1. Select Endpoint Policy > Admission Control > Clients.
- 2. Click New Client.
- 3. Enter the name.
- 4. Enter the description.
- 5. Enter the IP address of the client.
- 6. Under Template, select McAfee-McAfee ePolicy Orchestrator-HTTP-JSON.
- 7. Click Save Changes.

Figure 3	3 Temp	late

\diamond		-									Pulse Policy Secure	
S P	ulse.	Sec	ure sys	tem A	uthentica	tion Administrators	Users	Endpoint Policy	Maintenance	Wizards		1~
Admission Con	trol > Configure :	> Clients > I	New Client									
New Client												
* Name:	McAfee ePO							abel to reference this client.				
Description:												
			6									
* IP Address:	10.96.200.101							P Address of this client.				
* Template:	McAfee-McAf	ee ePolicv	Orchestrator-HTTF	P-JSON	\$			Template used by the client				
	Selected Templ							,				
	Template											
	name	Vendor	Device	Protocol	Format	Description						
	mcafee-	McAfee	McAfee ePolicy	нттр	JSON	Integration with McAfee ePo						
	epo- http.itmpl		Orchestrator			Orchestrator which sends er alerts to PPS	dpoint					
Save Chan	ges											
* indicates requir	red field											

Note: A subset of events supported by McAfee ePO is added in the default template. A new template can be created by Admin and has to be uploaded on PPS for supporting any additional events apart from the one's in the default template.

Admission Control Policies

The admission control policies define the list of actions to be performed on PPS for the user sessions. The actions are based on the event and the severity information received from the network security device.

- 1. To view and add the new integration policy:
- 2. Select Endpoint Policy > Admission Control > Policies.
- 3. Click New Policy.
- 4. Enter the policy name.
- 5. Select McAfee-McAfee ePolicy Orchestrator-HTTP-JSON as a template.
- 6. Under Rule on Receiving, select the event type and the severity level. The event types and the severity level are based on the selected template.
- 7. Under then perform this action, select the desired action.
 - Ignore (log the event) Received event details are logged on the PPS and no specific action is taken.
 - Terminate user session—Terminates the user session on the PPS.
 - Disable user account—Disables the user account.
 - Replace user's role with the configured remediation role. For example, Guest, Guest Admin, Guest Sponsor, Guest Wired Restricted, Users.
 - Block the endpoint from authenticating the network.

Note: Admission Control Policy action is not taken for endpoints behind Network Address Translation (NAT).

- 8. Under Roles, specify:
 - Policy applies to ALL roles—To apply the policy to all users.
 - Policy applies to SELECTED roles—To apply this policy only to users who are mapped to roles in the Selected roles list. You must add roles to this list from the Available roles list.
 - Policy applies to all roles OTHER THAN those selected below—To apply this policy to all users except for those who map to the roles in the Selected roles list. You must add roles to this list from the Available roles list.



٥.		C -		t i i i i						Pulse Policy Secure	
\mathbf{N}^{I}	ulse	Sec	cure sy	vstem ,	Authentic	ation Administrators Users	Endpoint Policy	Maintenance	Wizards		1~
* Name:	ePO-policy						Label to reference this policy.				
* Template	McAfee-McAfe	ee ePolicy	Orche 🛊				Template used by the client				
	Template name	Vendor	Device	Protocol	Format	Description					
	mcafee-epo- http.itmpl	McAfee	McAfee ePolicy Orchestrator	HTTP	JSON	Integration with McAfee ePolicy Orchestrator which sends endpoint alerts to PPS					
♥ Rule on	receiving										
* Events:			Infected file four	nd	\$		Events supported				
* Severity	/ Level:		Alert	\$			Severity Levels supported				
♥ Count t	hese many times	3									
* Cour	it:		1]			(1-256)				
❤ then pe	rform this action										
		e (just log t nate user s									
	-	le user acc									

9. Click Save Changes.

Once the policy is created. You can see the summary page as shown below. The following page shows the different policies created for different events with different user roles.

Figure 5 Summary

Admis	Admission Control > Contigure > Policies												
Polic	Policies												
С	Configure Templates												
Clier	Clients Policies												
Nev	New Policy Duplicate Delete Save Changes												
10		✓ records per page					Search:						
	Name Protocol Type Vendor Device Type Event Severity Action Applies to												
1 EPO		EPO	HTTP	McAfee	McAfee ePolicy Orchestrator	Access Protection rule violation detected and NOT blocked	Critical	terminateSession	All				

Configuring McAfee ePO

This section covers the following topics:

- "Install Pulse Policy Secure Extension for McAfee ePO" on page 9
- "McAfee ePO Configuration" on page 10

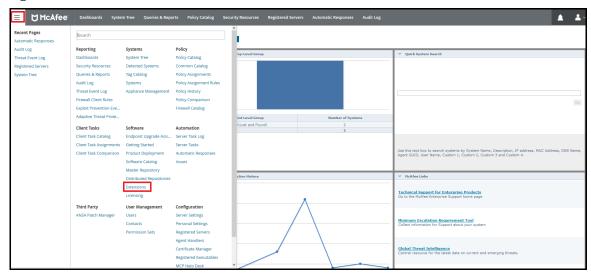
Install Pulse Policy Secure Extension for McAfee ePO

Download the PulsePolicySecureExt_1.0.0.zip file from Pulse Secure software downloads location and install it onto your McAfee ePO server.

To configure the Pulse Policy Secure extension on ePO server:

- 1. Log into McAfee ePO as an Admin user.
- 2. In the McAfee Dashboard, select the **Extensions**.

Figure 6 McAfee extension



3. Click Install Extension.

Figure 7 Install Extension

≡ 🔀 McAfee	Dashboards	System Tree Quer	ies & Reports Re	egistered Servers Policy Ca	talog Security Resources	Extensions	Client Task Catalog	~	
Software Extensions Install	Extension								
Extensions									
Search X	Search								×
✓ McAfee									
Common Catalog	Name:	Pulse Policy Secure	Status:	Installed	Modules: Pulse Policy Sec	ire Connector	Ru	nning	Remove
Endpoint Protection for Mac	Version:	Connector 1.0.0	Requires:	Automatic Response					
Endpoint Security	Installed by:	admin - June 5, 2020 11:50:03 AM IST)	5.9.0 • Console 5.9.0					
Endpoint Upgrade Assistant				Core Modules 5.9.0 ePO Core 5.9.0					
ePolicy Orchestrator				 Registered Servers 5.9 Scheduler 5.9.0 	.0				
Help Content			Details:	Copyright (C) 2020 Pulse					
McAfee Agent				Secure, LLC. All rights reserved					
McAfee Client Proxy				TO DO TO DO					
Server									
Shared Components									
Threat Detection Reporting									
VirusScan Enterprise									
✓ Third Party									
Pulse Policy Secure									

- 4. Click Browse and upload the PulsePolicySecureExt_1.0.0.zip file to install the Pulse Policy Secure extension for McAfee.
- 5. After installation, Pulse Policy Secure extension for McAfee appears under Third Party section.

Figure 8 Pulse Policy Secure extension

≡ 🔀 McAfee		Dashboards	System Tree	Queries & Re	eports	Registered Servers	Policy Catalog	Security Resources	Extensions	Client Task Catalog	~	▲ ▲ ~
Software Extensions Install	Extens	sion										
Extensions												
Search ×		Search										×
✓ McAfee												
Common Catalog		Name:	Catalog Fram	ework	Status:	Installed		Modules: Catalog Framework		R	unning	Remove
Endpoint Protection for Mac		Version: Installed by:	2.0.5.19 admin - Feb	ruary 28, 2020	Requires:	 Console 5.1 Core Modules 5.1 						
Endpoint Security			11:53:09 AM			 Policy and 	Task					
Endpoint Upgrade Assistant						Managem	ent 5.1					
ePolicy Orchestrator					Details:	Copyright (C) LLC. All rights						
Help Content												
McAfee Agent												
McAfee Client Proxy		Name:	Core Catalog		Status:	Installed		Modules: Core Catalog		R	unning	Remove
Server		Version: Installed by:	2.0.5.19 admin - Febru	ary 28, 2020	Requires	 Catalog Fi 	ramework 2.0.2					
Shared Components			11:53:10 AM			Console 5 Core Mode						
Threat Detection Reporting					Details:	Copyright (C)	2020 McAfee					
VirusScan Enterprise					2 2.4151	LLC. All rights						
✓ Third Party	1											
Pulse Policy Secure												

McAfee ePO Configuration

McAfee ePO framework supports extension/plugin specific to the vendors which can be used to send the information in the way understood by the vendors. There are two basic components which is used for this purpose in ePO:

- "Registered Servers" on page 11
- "Automatic Response" on page 12

Registered Servers

Registered server in ePO is a server which is interested in the information/events received by ePO. ePO supports LDAP, SNMP, Syslog or ePO itself as Registered server by default. When extension/plugin is installed, PPS will be listed as Registered server, which is interested in Threat related events.

PPS can manage hosts in multiple subnets or multiple PPS devices can manage the hosts in the same subnet.

- 1. Log into McAfee ePO as an Admin user.
- 2. Open the Main Menu, under Configuration Click Registered Servers.

Figure 9 Configuration

📃 🖞 McAfee		m Tree Queries & Reps	erts Policy Catalog	Security Resources	Registered Servers	Automatic Responses	Audit Log		* ~
Recent Pages	Bearch			^					
Registered Servers	Reporting	Systems	Policy						
Extensions	Dashboards	System Tree	Policy Catalog						
Automatic Responses	Security Resources	Detected Systems	Common Catalog						
Audit Log	Queries & Reports	Tag Catalog	Policy Assignments						
Threat Event Log	Audit Log	Systems	Policy Assignment Rules						
	Threat Event Log	Appliance Management	Policy History						
	Firewall Client Rules		Policy Comparison						
	Exploit Prevention Eve		Firewall Catalog						
	Adaptive Threat Prote								
	Client Tasks	Software	Automation						
	Client Task Catalog	Endpoint Upgrade Assi	Server Task Log						
	Client Task Assignments	Getting Started	Server Tasks						
	Client Task Comparison	Product Deployment	Automatic Responses						
		Software Catalog	Issues						
		Master Repository							
		Distributed Repositories							
		Extensions							
		Licensing							
	User Management	Configuration	McAfee Investigator						
	Users	Server Settings	Home Page 🛙						
	Contacts	Personal Settings							
	Permission Sets	Registered Servers							
		Agent Handlers							
		Certificate Manager							
		Registered Executables							
		MCP Help Desk							

- 3. Click New Server.
- 4. Select Server Type as **Pulse Policy Secure**.
- 5. Enter the name of the server.
- 6. Click Next.

Figure 10 Registered Servers

≡ 🔀 McAfee	Dashboards	System Tree	Queries & Reports	Registered Servers	Policy Catalog	Security Resources	Extensions	Automatic Responses		^ ~
Configuration Registered Servers	5									
Registered Server Builder	1 Description					2 Details				
Server type:	Pulse Policy See	cure 🗸								
Name:	PPS McAfee ePC	01								
Notes:	PPS McAfee ePC	01								
									Rack No	vt Cancel

- 7. Enter PPS details: IP address of PPS, User Name, Password, Endpoint subnet(s) that PPS manages.
- 8. Click **Test Connection** to test the connectivity between PPS and McAfee ePO.
- 9. Click Save.

Figure 11 Registered Servers- PPS

≡	🕽 McAfee	Dashboards	System Tree	Queries & Reports	Registered Servers	Policy Catalog	Security Resources	Extensions	~		.
	gistered Server	S									
Registe	red Server Builder	1 Description				2 Details					
Pulse I	Policy Secure Server	10.00.000.00									
User N	ame	epoadmin									
Passw	ord	•••••									
Subnet	(\$)	10.96.192.1/1 10.204.88.1/2	9	Example Subnet: 10.11.1.2/	24						
Test Co	onnection	Test Connection	1								
									E	ack Save	Cancel

Automatic Response

Automatic response is a framework where admin can register for a specific Threat (or all the Threats/Events) information and invoke an action like "Send Mail", "Send SNMP Trap" and others. Automatic response is also listed. When PPS specific action is invoked, ePO will send the information to PPS (using REST API) configured as Registered server.

- 1. Login to ePO server as an Admin.
- 2. Under Automation, select Automatic Response.
- 3. Select **Pulse Policy Secure Auto Response** and click Actions and **Enable Responses**.

Figure 12 Auto Response

	& Reports Registered	Servers Policy Catalog	Security Resources Extensions	Automatic Responses 💧 👤 🗸
	a Reports Registered	Servers Folicy Catalog	Security Resources Extensions	
Automation				
Automatic Responses New Response Import Responses				
				Hide Filter
Automatic Responses				Hide Filter
Preset: Quick find:	Show selected rows			
Name Name	∧ Status	Event Category	Event Type	Actions
Distributed Repository Replication failed	Disabled	ePO Notification Events	Server	View Edit Duplicate
Master Repository Update failed	Disabled	ePO Notification Events	Server	View Edit Duplicate
Master Repository Update succeeded	Disabled	ePO Notification Events	Server	View Edit Duplicate
Noncompliant computer detected	Disabled	ePO Notification Events	Server	View Edit Duplicate
Pulse Policy Secure Auto Response	Disabled	ePO Notification Events	Threat	View Edit Duplicate
Software Catalog new product update available	Disabled	ePO Notification Events	Server	View Edit Duplicate
Choose Columns				
S Delete				
Disable Responses				
Duplicate				
Edit				
Enable Responses				
Export Responses				
Export Table				
View				• • • • • • • • • • • • • • • • • • •
Actions Y 1 of 6 selected				

Figure 13 Automatic Responses

\equiv \bigcup McAfee	Dashboards	System Tree	Queries & Reports	Registered Serve	rs Policy Catalog	Security Resources	Extensions	Automatic Responses		^ ~
Automatic Respon	ises									
Response Builder	1 Description		2 Filter		3 Aggregation	> 47	ctions	5 Summary		
What is this response's name, target lang	juage, and event typ	e? Is the response er	abled?							
Name:	Pulse Policy Sec	cure Auto Response								
Description:	Pulse Policy Sec	cure Auto Response								
Language:	English	~								
Event:	Event group:	ePO No								
	Event type:									
Status:	 Enabled Disabled 									
								Back	Next Save	Cancel

4. Add the filters for the incoming events. For example, Source IP address, Threat Event-ID, Threat severity and so on.

Figure 14 Automatic Responses

≡ 🛛 McAfee	Dashboards	System Tree Qu	ieries & Reports	Registered Servers	Policy Catalo	g Security Resou	ces Extensions	Automatic Responses		.
Automation Automatic Resp	oonses									
Response Builder	1 Description		2 Filter		3 Aggregation		> 4 Actions	5 Summary		
Vhich filtering criteria do you wan	t to use to narrow down t	he event that can trigger the	response? To have the	response match against al	events for its even	type, click "Next" without	selecting any properties.			
vailable Properties	Property		Comparison		Value					
Search X	 Required Criteria 									
Agent GUID >	Defined at		System is in group	or subgroup	My Or	ganization …	+			
Detected >	Threat									
Detecting Product	Contract Several Se	rity	Equals		 Emerged 	leuch	× -			
Detecting Product DAT \ >		and/or	Equals		 Critica 	d .	× -			
Detecting Product Detec >							_			
Detecting Product Engin >		and/or	Equals		 ✓ Alert 		✓ - +			
Detecting Product Host >										
Detecting Product IP ad >										
Detecting Product IPV4 >										
Detecting Product MAC . >										
Detecting Product Name										
Detecting Product Versic >										
Event Description										
OS Platform >										
OS Type >										
Received >	•									
								Back	Next Save	Cance

5. Automatic response is sent for every event or specific event(s). The trigger conditions is defined on the "Aggregation" page.

Figure 15 Aggregation

	Dashboards System Tree	Queries & Reports Registered Serve	rs Policy Catalog	Security Resources	Extensions	Automatic Responses	▲ ▲ ~
Automatic Respon	ses						
Response Builder	1 Description	2 Filter	3 Aggregation	4.	Actions	5 Summary	
What kind of aggregation, grouping, and t	throttling behavior should this response hav	e?					
Aggregation:	Trigger this response for every event. Trigger this response if multiple event When the number of distinct value Property: <u>Agent GUID</u> or When the number of events is at I	s for an event property is at least a certain value Number of distinct v					
Grouping:	Do not group aggregated events. Group aggregated events by: Agen						
Throttling:	At most, trigger this response once ev	ery: 1 hours					
						Back	Next Save Cancel

6. Select **Pulse Policy Secure Response** from the drop down. Enter event information to be sent to PPS. You can also insert the variables from the drop down.

≡ ₽	McAfee [®]	Dashboards	System Tree	Queries & Reports	Registered Servers	Policy Catalog	Security Resources	Extensions	Automatic Responses		. ~
Automation Autom	atic Respor	ises									
Response Build		1 Description		2 Filter	\rangle	3 Aggregation	4.4	ctions	5 Summ	hary	
What actions do	you want this response	to take when trigger	ed?								
Pulse Policy	y Secure Response ∽										+
PPS Action {li	rent-id:{listOfThreatEv istOfThreatName}	entID},srcip:{listO	ofSourceIPV4},threa	tSeverity: {listOfThreatSe	verity},threatName:						
Ins	sert variable: List of A	II Values	✓ Agent GUID	~	Insert						
									E	Back Next Sav	e Cancel

For more information on McAfee ePO configuration, see McAfee documentation.

Troubleshooting

To verify the event logs on PPS, select System > Log/Monitoring > Events. Ensure Admission control events option is enabled in Event logs settings.

You can verify that the event logs are generated every time when an event is received from McAfee ePO.

To verify the user access logs, select System >Logs & Monitoring > User Access to verify the user login related logs like realm, roles, username and IP address.

You can also verify whether the quarantined/blocked host is listed in the Infected Devices report, which lists the mac address, IP address, and the device status. To verify the reports, select System > Reports > Infected Devices.

0	I				Pulse Policy Secure
N Pu	Ilse Secure System	Authentication Administrator	rs Users Endpoint Policy	Maintenance Wizards	1~
eports > Infected					
nfected Devic	ces				
Report: Infected De	S svices Report				
User Summa		Single Device Activities	Device Discovery Application Dis	scovery Authentication	Compliance Behavioral Analytics
Infected Dev	ices Report Download Report: CSV Tab Delimi	led			
Device Status:	Username: IP Addres	MAC Address:	Apply Filter		
Clear Host Below listed devic	Clear All Hosts es are permanently blocked or quarantined as per Admission	Control policy			
	MAC Address	Username	IP Address	Blocked By	Device Status
	aa-bb-cc-dd-ee-ff	testuser	1.1.1.1	McAfee ePO	Blocked
					1 results found

You can also enable debug logs to troubleshoot any issues. Select Maintenance > Troubleshooting > Monitoring > Debug Log to enable debug logs.

Secure Secure	e System Authentication Administrators	s Users Endpoint Policy	Maintenance Wizard	Pulse Policy Secure on PPS_176 S
Troubleshooting > Monitoring > Debug Log			System	✓ User Sessions Remote Debugging
Debug Log			Import/Export	Policy Tracing
User Sessions Monitoring Tot	ols System Snapshot Remote Debugging		Push Config	✓ Monitoring
Debug Log Node Monitor Cluster Diagn	nostic Logs	Archiving	Debug Log Node Monitor	
Save Changes Reset Save Del	bug Log Clear Log		Troubleshooting	Cluster Diagnostic Logs
✤ Debug Log Settings				✓ Tools TCP Dump
Current Log Size Debug Logging On	5078 bytes			Commands Kerberos
Max Debug Log Size	200 MB			System Snapshot
Debug Log Detail Level	50		A positive number	
Include logs	v	_	Selecting this option will inc	lude system logs
Process Names:			Comma separated, list of pro	poess names to log
Event Codes:	integrations		Comma separated, list of ev	ents to log

Verify Audit/Threat Event logs on McAfee ePO

Figure 16 Audit logs

≡ 🖸 Mc#	fee [®] Dashi	boards	System Tree	Queries & Reports	Registered Servers	Policy Catalog	Security Resources	s Extensions	Automatic Responses	
_{Reporting} Audit Log	Purge									
udit Log										н
Preset: Last 24 hours V	Custom: None	Qu Y Pr	iick find: os	Apply Clear						
ser Name	Priority	Action		Details			5	Success	Start Ti	ne
system	High	Pulse Po	licy Secure : Auto Res	ponse Event sent to	PPS server 10.00.200.08 suc	cessfully		Succeeded	4/14/2	0 11:03:04 PM IST

Figure 17 Threat Event Logs

≡	💭 McAfee	Dashboards S	ystem Tre	e Queries & Reports	Registered Servers	Policy Catalog	Security Resources	Extensions ,	Automatic Responses	
	ireat Event Log	5								
Threa	Threat Event Log : Threat events received from managed systems									
	Preset: Custom: Quick find: Last 7 days None Apply Clear Show selected rows									
	Event Received Time 🗸 🖡	Preferred Event Time	Event ID	Event Description		Event Category	Threat Target IPv4 Ad	Action Taken	Threat Type	
4	/15/20 12:51:05 AM IST 4	/15/20 12:44:02 AM IST	1120	The update is running		Update	1	None		
4	1/14/20 11:09:43 PM IST 4	/14/20 11:11:53 PM IST	1095	Access Protection rule violation de	tected and NOT blocked	'File' class or access		Would block	Access Protection	

Requesting Technical Support

Technical product support is available through the Pulse Secure Global Support Center (PSGSC). If you have a support contract, file a ticket with PSGSC.

 Product warranties—For product warranty information, visit https://support.pulsesecure.net/ product-service-policies/

Self-Help Online Tools and Resources

For quick and easy problem resolution, Pulse Secure provides an online self-service portal called the Customer Support Center (CSC) that provides you with the following features:

Find CSC offerings: https://support.pulsesecure.net

- Search for known bugs: https://support.pulsesecure.net
- · Find product documentation: https://www.pulsesecure.net/techpubs
- Download the latest versions of software and review release notes: https://support.pulsesecure.net
- Open a case online in the CSC Case Management tool: https://support.pulsesecure.net
- To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool: https://support.pulsesecure.net

For important product notices, technical articles, and to ask advice:

- Search the Pulse Secure Knowledge Center for technical bulletins and security advisories: https://kb.pulsesecure.net
- Ask questions and find solutions at the Pulse Community online forum: https://community.pulsesecure.net

Opening a Case with PSGSC

You can open a case with PSGSC on the Web or by telephone.

- Use the Case Management tool in the PSGSC at https://support.pulsesecure.net.
- Call 1-844 751 7629 (Toll Free, US).

For international or direct-dial options in countries without toll-free numbers, see https://support.pulsesecure.net/support/support-contacts/

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