



SECURITY OPERATIONS FUNDAMENTALS V2

Lab 6: Securing Endpoints using Vulnerability Profiles

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Introduction

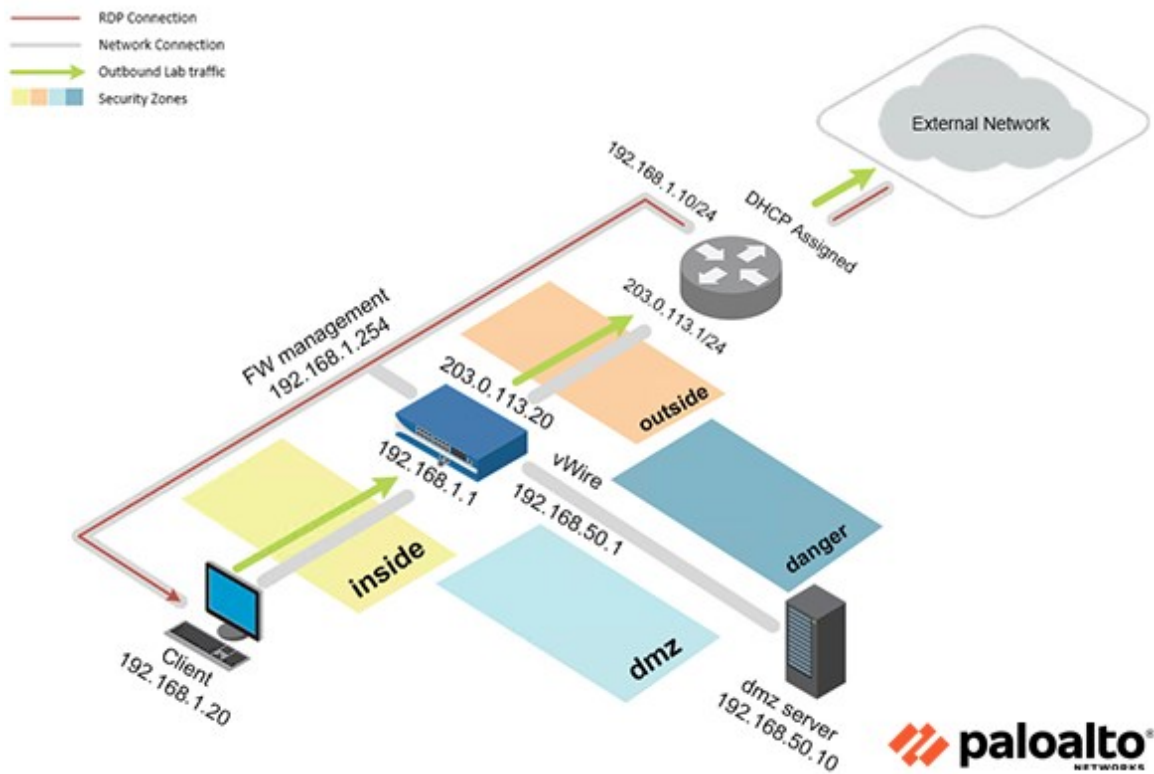
In this lab, you will secure an endpoint by blocking a PDF file with a Custom Vulnerability Object and Vulnerability Protection Profile. Palo Alto Networks Firewalls support the use of Custom Vulnerability Signatures that can be written with expression patterns to identify vulnerability exploits. Vulnerability Protection Profiles will stop any attempt to exploit system flaws so that unauthorized access cannot be gained to a targeted system.

Objective

In this lab, you will perform the following tasks:

- Install the latest Dynamic Updates of Antivirus
- Install Manual Update of Applications and Threats
- Create a Custom Vulnerability Signature
- Clone a Vulnerability Protection Profile
- Apply Custom Vulnerability Protection Profile to a Security Policy
- Commit and Test Vulnerability Protection

Lab Topology



Lab Settings

The information in the table below will be needed in order to complete the lab. The task sections below provide details on the use of this information.

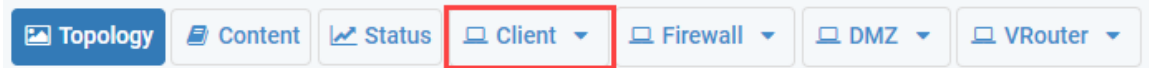
Virtual Machine	IP Address	Account (if needed)	Password (if needed)
Client	192.168.1.20	lab-user	Pal0Alt0!
DMZ	192.168.50.10	root	Pal0Alt0!
Firewall	192.168.1.254	admin	Pal0Alt0!

1 Securing Endpoints Using Vulnerability Profiles

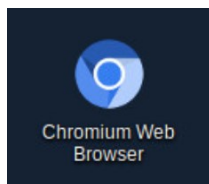
1.0 Load Lab Configuration

In this section, you will load the Firewall configuration file.

1. Click on the **Client** tab to access the client PC.



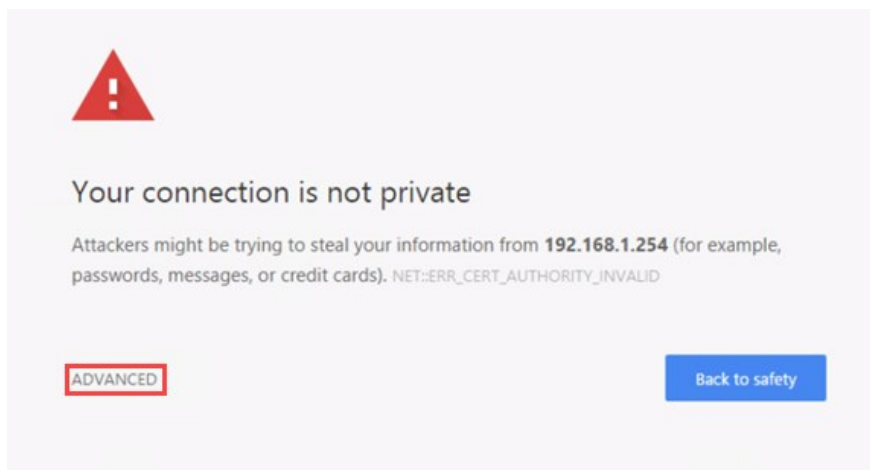
2. Log in to the client PC with username `lab-user`, password `Pa10Alt0!`.
3. Double-click the **Chromium Web Browser** icon located on the desktop.



4. In the *Chromium address* field, type `https://192.168.1.254` and press **Enter**.

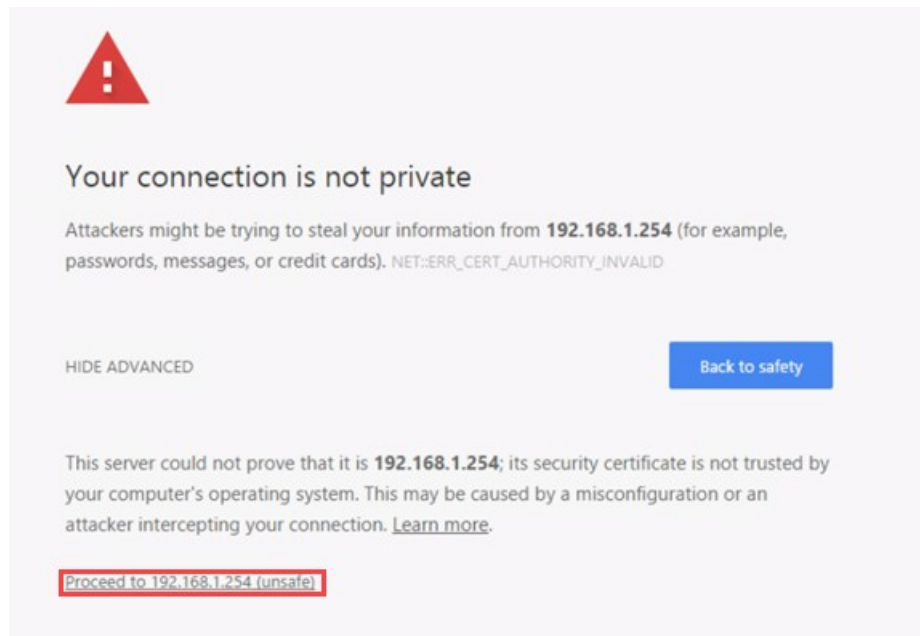


5. You will see a “Your connection is not private” message. Click on the **ADVANCED** link.



If you encounter the “Unable to connect” or “502 Bad Gateway” message while attempting to connect to the IP specified above, please wait an additional 1-3 minutes for the Firewall to fully initialize. Refresh the page to continue.

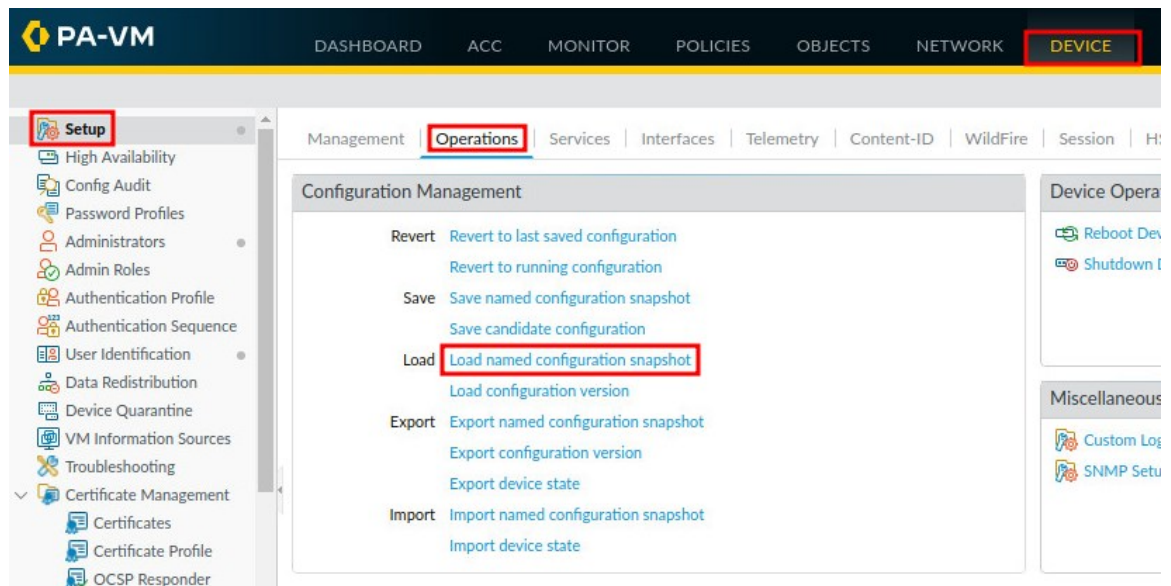
6. Click on **Proceed to 192.168.1.254 (unsafe)**.



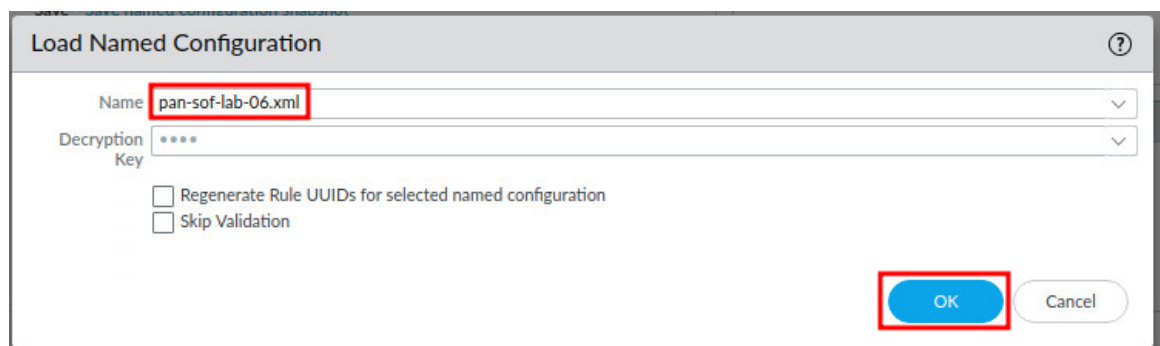
7. Log in to the Firewall web interface with username admin, password Pal0Alt0!.



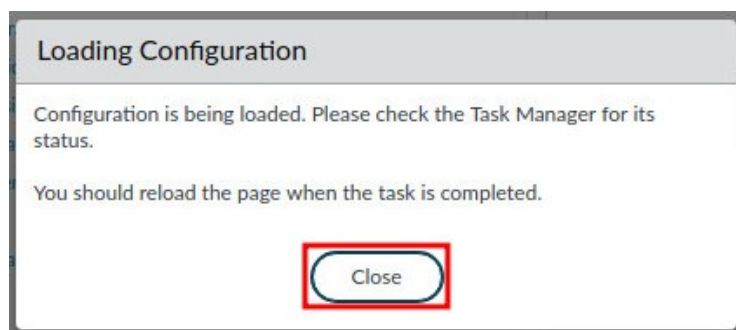
8. In the web interface, navigate to **Device > Setup > Operations** and click on **Load** named configuration snapshot underneath the *Configuration Management* section.



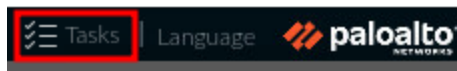
9. In the *Load Named Configuration* window, select **pan-sof-lab-06.xml** from the *Name* dropdown box and click **OK**.



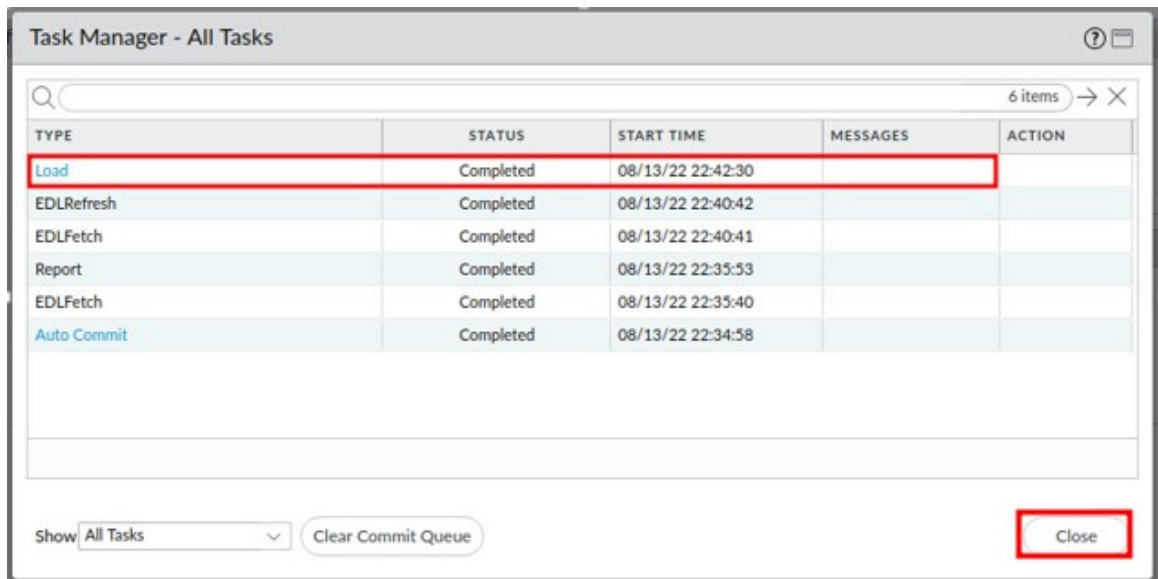
10. In the *Loading Configuration* window, a message will say *Configuration is being loaded*. Please check the Task Manager for its status. You should reload the page when the task is completed. Click **Close** to continue.



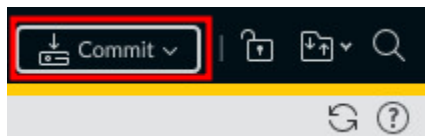
11. Click the **Tasks** icon located at the bottom-right of the web interface.



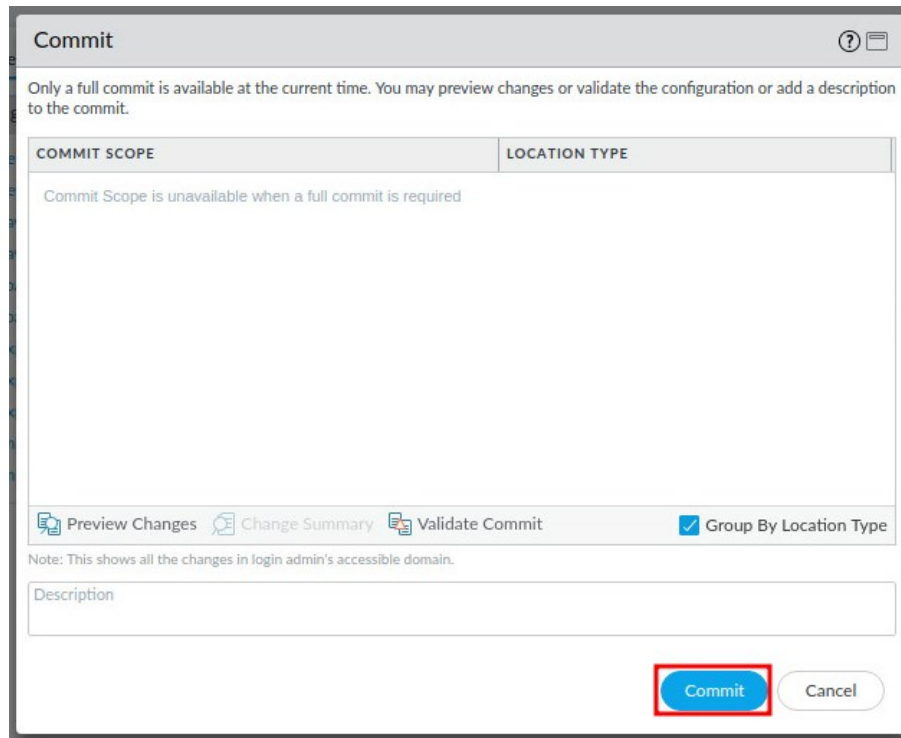
12. In the *Task Manager – All Tasks* window, verify the *Load* type has successfully completed. Click **Close**.



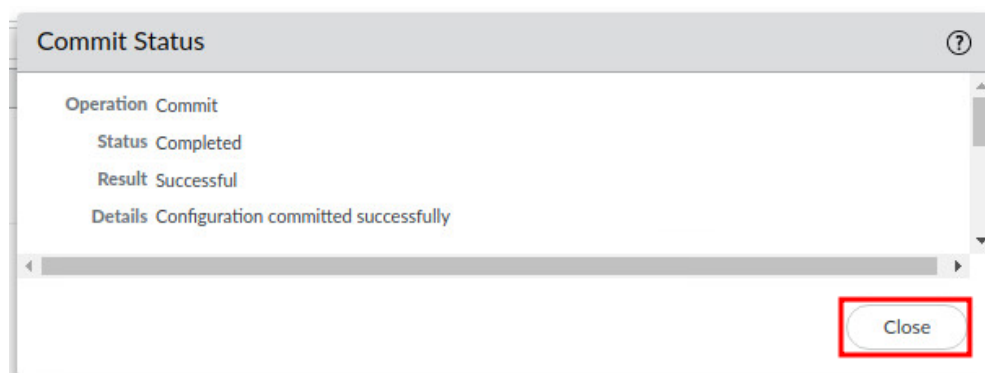
13. Click the **Commit** link located at the top-right of the web interface.



14. In the *Commit* window, click **Commit** to proceed with committing the changes.



15. When the commit operation successfully completes, click **Close** to continue.

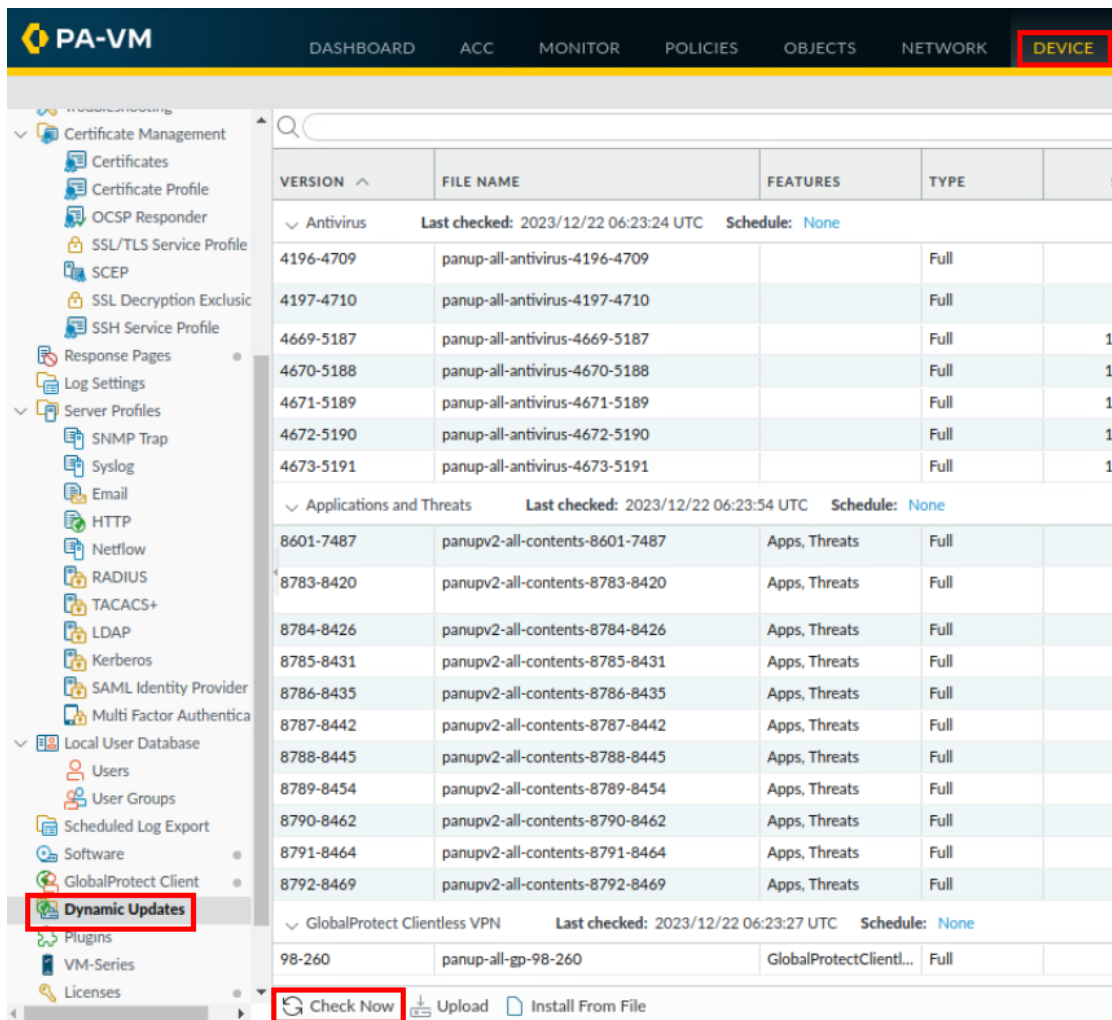


The commit process takes changes made to the Firewall and copies them to the running configuration, which will activate all configuration changes since the last commit.

1.1 Install the Latest Dynamic Updates of Antivirus

In this section, you will perform Dynamic Updates. Dynamic Updates ensure policy enforcement on a Palo Alto Networks Firewall of new threat signatures and applications.

1. Navigate to **Device > Dynamic Updates > Check Now**. You may need to scroll down in the left pane.



The screenshot shows the PA-VM web interface. The left sidebar contains a tree view with 'Dynamic Updates' highlighted. The main content area displays a table of updates. The table has columns: VERSION, FILE NAME, FEATURES, TYPE, and a status column. The updates are grouped by category: Antivirus, Applications and Threats, and GlobalProtect Clientless VPN. The 'Check Now' button is highlighted at the bottom of the table.

VERSION	FILE NAME	FEATURES	TYPE	
Antivirus Last checked: 2023/12/22 06:23:24 UTC Schedule: None				
4196-4709	panup-all-antivirus-4196-4709		Full	
4197-4710	panup-all-antivirus-4197-4710		Full	
4669-5187	panup-all-antivirus-4669-5187		Full	1
4670-5188	panup-all-antivirus-4670-5188		Full	1
4671-5189	panup-all-antivirus-4671-5189		Full	1
4672-5190	panup-all-antivirus-4672-5190		Full	1
4673-5191	panup-all-antivirus-4673-5191		Full	1
Applications and Threats Last checked: 2023/12/22 06:23:54 UTC Schedule: None				
8601-7487	panupv2-all-contents-8601-7487	Apps, Threats	Full	
8783-8420	panupv2-all-contents-8783-8420	Apps, Threats	Full	
8784-8426	panupv2-all-contents-8784-8426	Apps, Threats	Full	
8785-8431	panupv2-all-contents-8785-8431	Apps, Threats	Full	
8786-8435	panupv2-all-contents-8786-8435	Apps, Threats	Full	
8787-8442	panupv2-all-contents-8787-8442	Apps, Threats	Full	
8788-8445	panupv2-all-contents-8788-8445	Apps, Threats	Full	
8789-8454	panupv2-all-contents-8789-8454	Apps, Threats	Full	
8790-8462	panupv2-all-contents-8790-8462	Apps, Threats	Full	
8791-8464	panupv2-all-contents-8791-8464	Apps, Threats	Full	
8792-8469	panupv2-all-contents-8792-8469	Apps, Threats	Full	
GlobalProtect Clientless VPN Last checked: 2023/12/22 06:23:27 UTC Schedule: None				
98-260	panup-all-gp-98-260	GlobalProtectClientl...	Full	

Check Now Upload Install From File

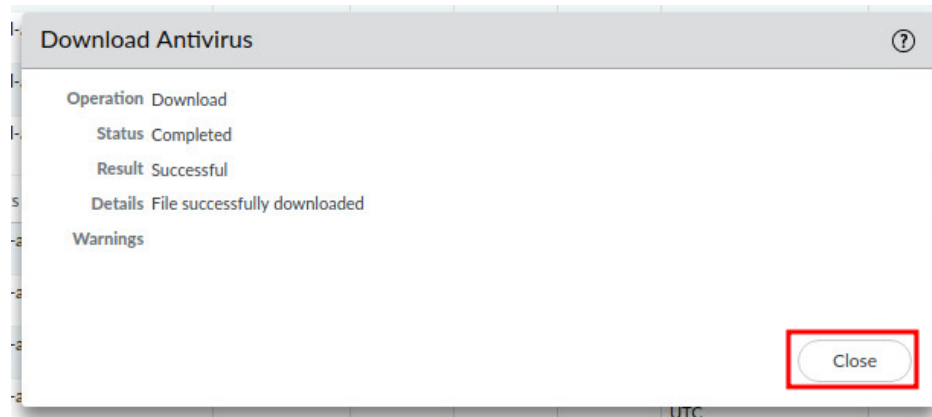
2. Click on **VERSION** to sort the entries such that the latest is at the top. Under the **Antivirus** update, click **Download** on the latest update.

26 items										
VERSION	FILE NAME	FEATURES	TYPE	SIZE	SHA256	RELEASE DATE	DOWNLO...	CURRENTLY INSTALLED	ACTION	DOCUMENTA...
Antivirus Last checked: 2022/09/25 23:16:39 UTC Schedule: None										
4217-4730	panup-all-antivirus-4217-4730		Full	104 MB	e36aff15...	2022/09/25 11:02:19 UTC			Download	Release Notes
4216-4729	panup-all-antivirus-4216-4729		Full	102 MB	fa60cec0f...	2022/09/24 11:00:57 UTC			Download	Release Notes
4215-4728	panup-all-antivirus-4215-4728		Full	102 MB	b51ae540...	2022/09/23 16:16:40 UTC			Download	Release Notes



This lab environment connects to a live update server. Therefore, screenshots are subject to change. Please select the latest update.

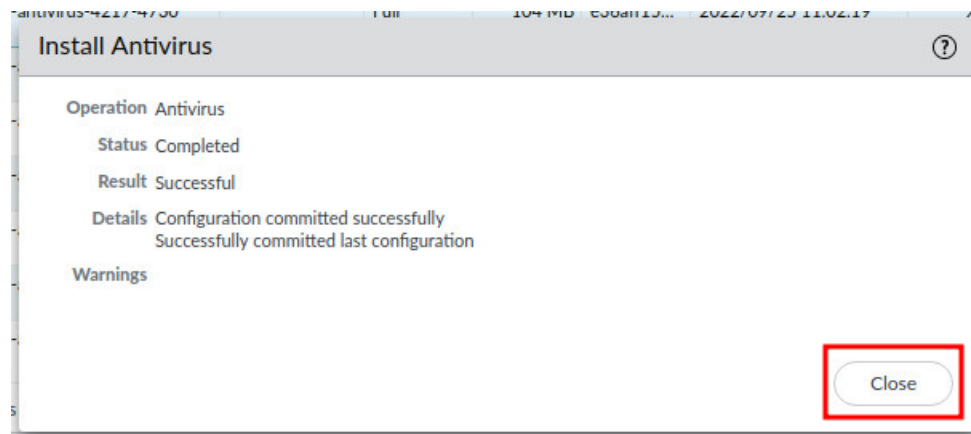
3. In the *Download Antivirus* window, after the download is completed, click the **Close** button.



4. Under the *Antivirus* update, click **Install** on the latest update.

VERSION	FILE NAME	FEATURES	TYPE	SIZE	SHA256	RELEASE DATE	DOWNLO...	CURRENTLY INSTALLED	ACTION
Antivirus Last checked: 2022/09/25 23:21:42 UTC Schedule: None									
4217-4730	panup-all-antivirus-4217-4730		Full	104 MB	e36aff15...	2022/09/25 11:02:19 UTC	✓		Install
4216-4729	panup-all-antivirus-4216-4729		Full	102 MB	fa60cec0f...	2022/09/24 11:00:57 UTC			Download

5. In the *Install Antivirus* window, after the update is successfully installed, click the **Close** button.



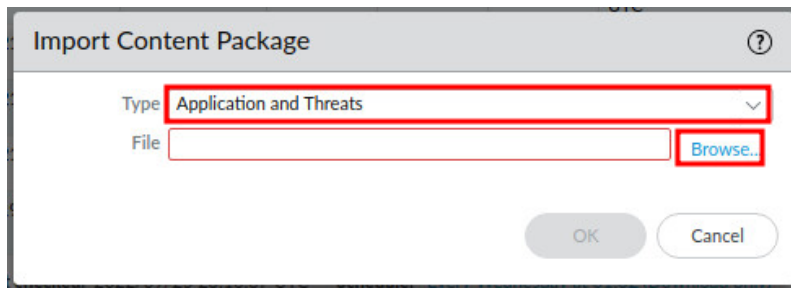
1.2 Install Manual Update of Applications and Threats

In this section, you will perform a Manual Update. There are times when the Firewall may not have Internet access to perform a Dynamic Update. Applications and Threats will be updated via a file that has been downloaded from the Palo Alto Networks Customer Support Portal.

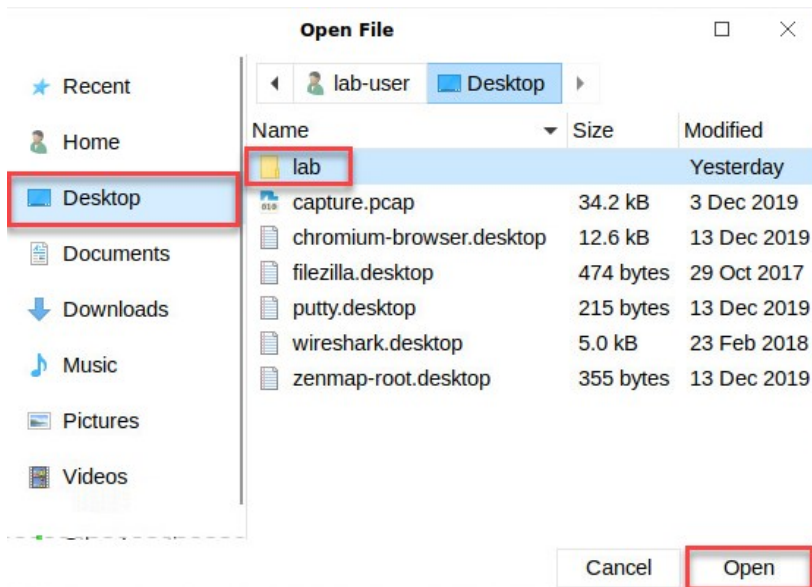
1. To upload the file from the Customer Support Portal, click on the **Upload** button at the bottom.



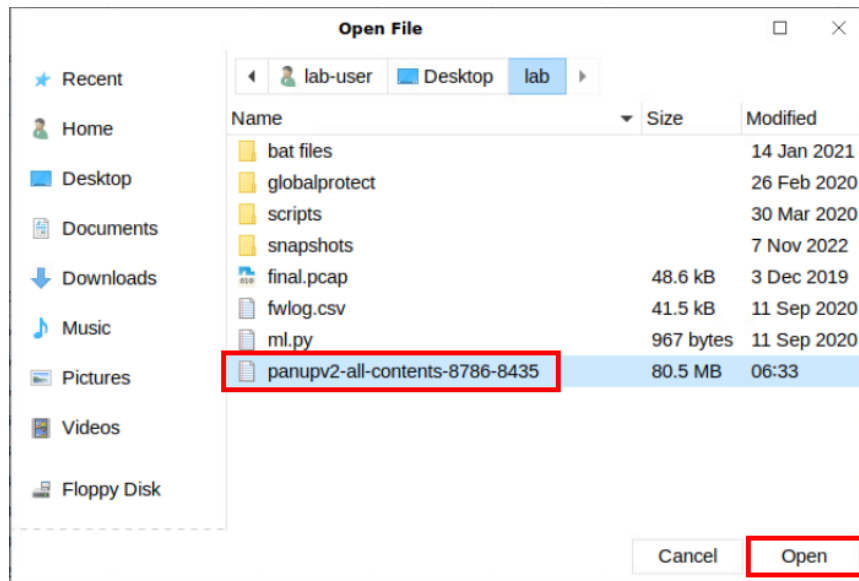
2. In the *Import Content Package* window, select **Application and Threats** from the *Type* dropdown. Then, click on **Browse...**



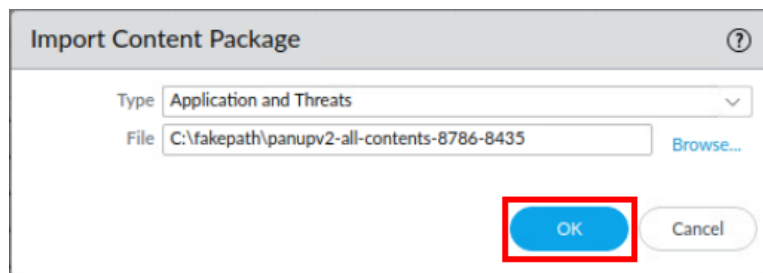
3. In the *Open File* window, select **Desktop**, and click the **lab** folder. Lastly, click **Open**.



4. Click on the **panupv2-all-contents-8786-8435** file. Lastly, click **Open**.

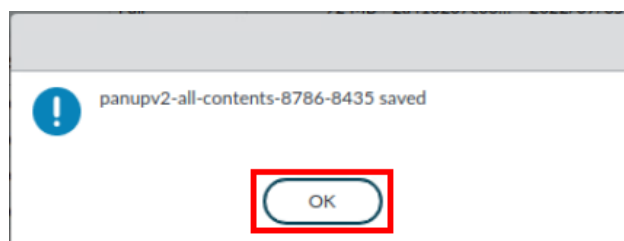


5. In the *Import Content Package* window, click on the **OK** button.



This may take several minutes to complete.

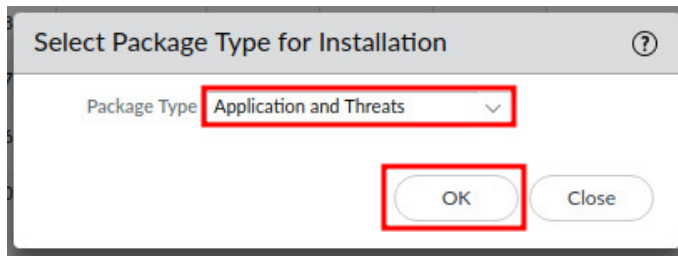
6. When completed, click on the **OK** button.



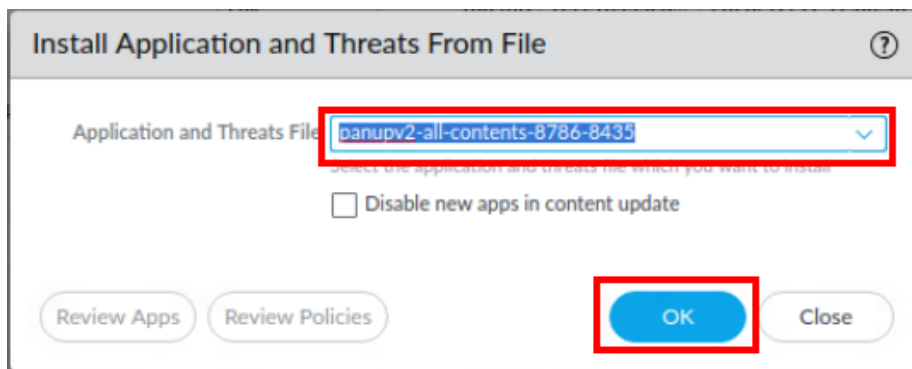
7. With the file uploaded, you can begin the install. Click on **Install From File** at the bottom.



8. In the *Select Package Type for Installation* window, select **Application and Threats** from the *Package Type* dropdown. Then, click on the **OK** button.

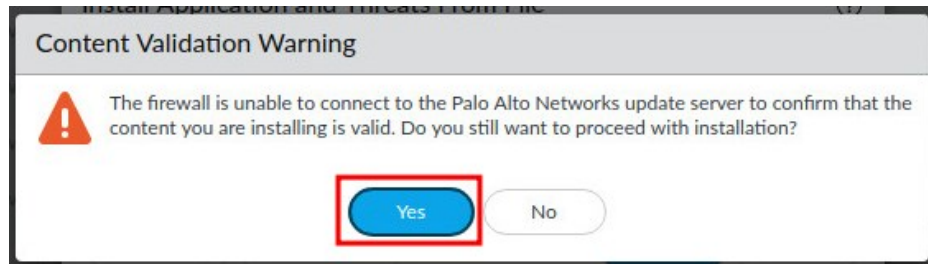


9. In the *Install Application and Threats From File* window, select **panupv2-all-contents-8786-8435** from the *Application and Threats File* dropdown. Then, click on the **OK** button.

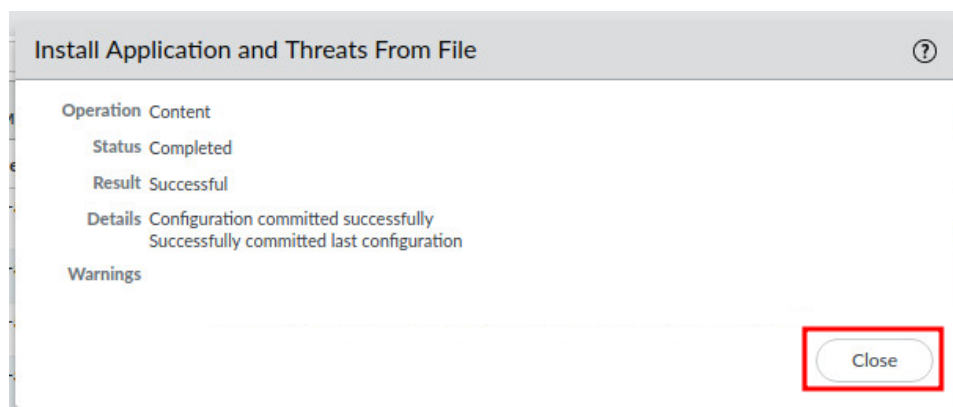


For the purpose of this lab, you will be manually installing the **Application and Threats** from a file already downloaded on the client machine. Normally you would download and install any updates from Palo Alto Networks via *Check Now*. Using *Check Now* retrieves the latest updates from Palo Alto Networks live update server.

10. If you see a *Content Validation Warning* window popup, please click the **Yes** button to proceed.



11. In the *Install Application and Threats From File* window, click on the **Close** button.



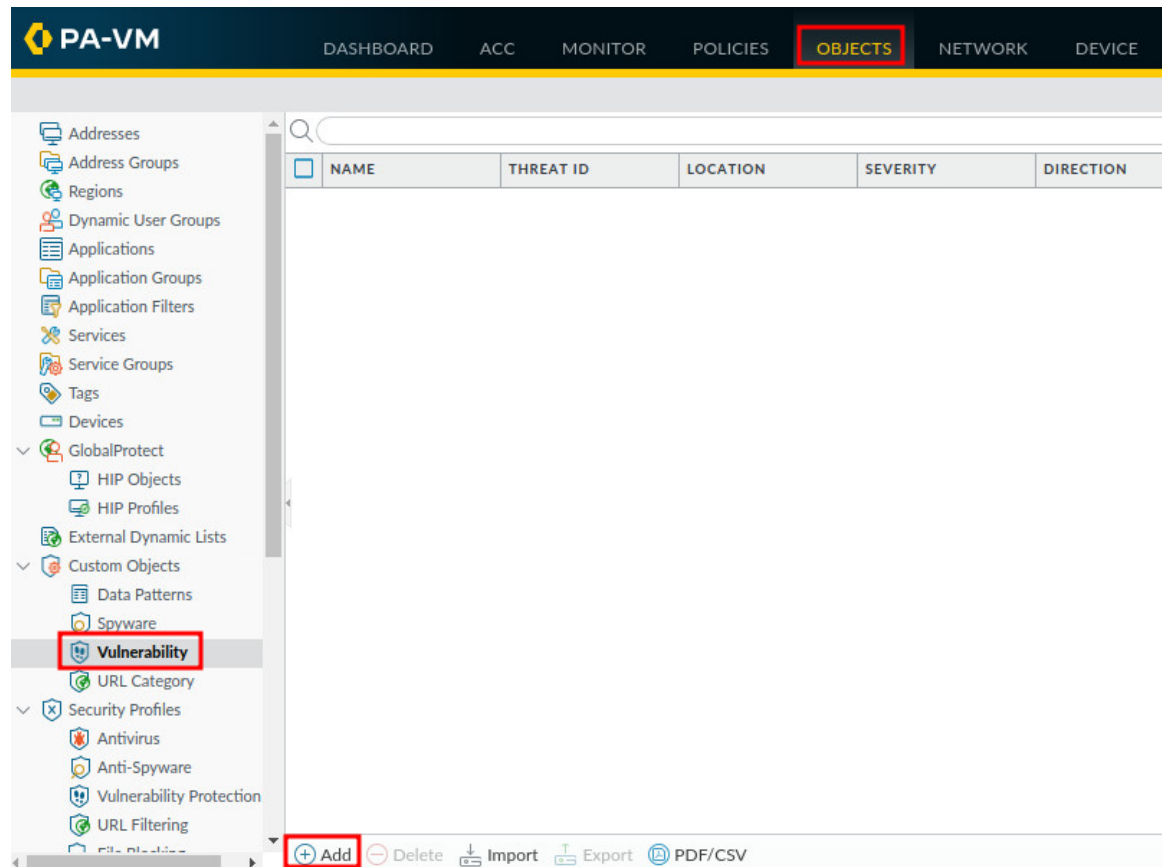
12. Verify that the **panupv2-all-contents-8786-8435** version is now active.

VERSION ▾	FILE NAME	FEATURES	TYPE	SIZE	SHA256	RELEASE DATE	DOWNLOADED	CURRENTLY INSTALLED
8787-8442	panupv2-all-contents-8787-8442	Apps, Threats	Full	76 MB	9f8a9c56934...	2023/12/06 19:21:08 UTC		
8786-8435	panupv2-all-contents-8786-8435	Apps, Threats	Full	76 MB	3c56e8b13c1...	2023/12/01 00:13:54 UTC		✓

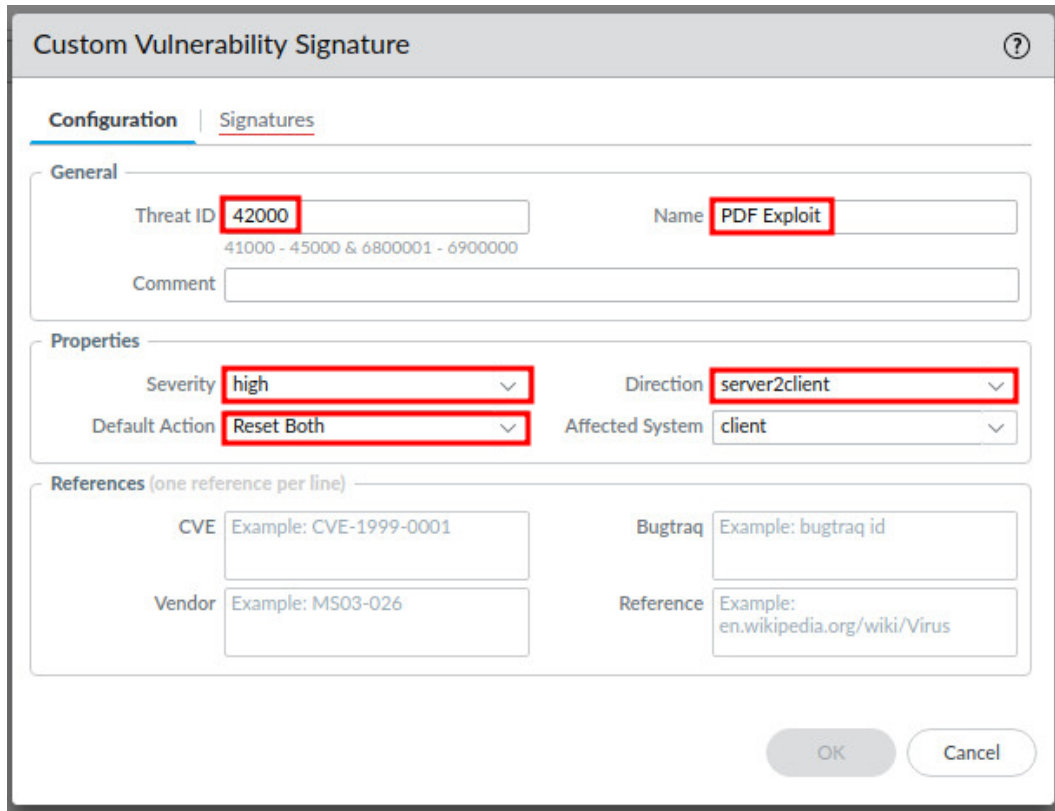
1.3 Create a Custom Vulnerability Signature

In this section, you will create a Custom Vulnerability Signature. Palo Alto Network Firewalls use Custom Vulnerability Signatures to identify vulnerability exploits by writing a custom regular expression. The Firewall then looks for the custom-defined pattern within the network traffic and takes the necessary action to identify and stop the vulnerability exploit.

1. Navigate to **Objects > Custom Objects > Vulnerability > Add**.



2. In the *Custom Vulnerability Signature* window, type 42000 in the *Threat ID* field. Then, type PDF Exploit in the *Name* field. Next, select **high** from the *Severity* dropdown. Then, select **server2client** from the *Direction* dropdown. Finally, select **Reset Both** from the *Default Action* dropdown.

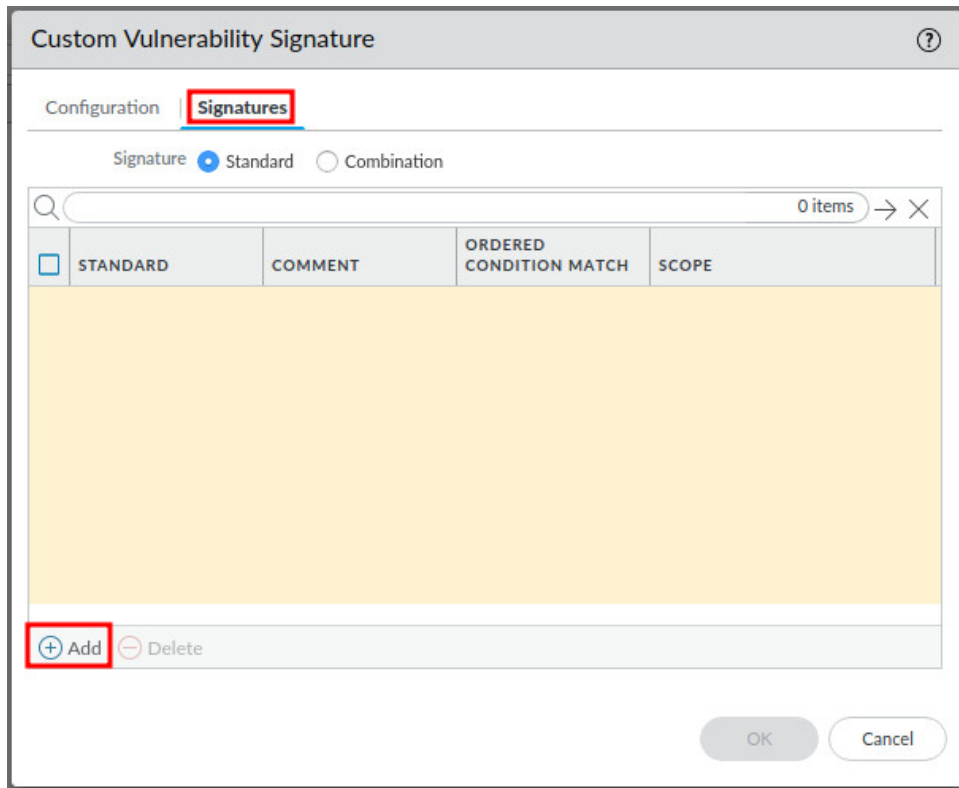


The screenshot shows the 'Custom Vulnerability Signature' window with the 'Signatures' tab selected. The 'General' section contains the 'Threat ID' field with the value '42000' and the 'Name' field with the value 'PDF Exploit'. The 'Properties' section shows the 'Severity' dropdown set to 'high', the 'Direction' dropdown set to 'server2client', and the 'Default Action' dropdown set to 'Reset Both'. The 'References' section has four input fields: 'CVE' (Example: CVE-1999-0001), 'Bugtraq' (Example: bugtraq id), 'Vendor' (Example: MS03-026), and 'Reference' (Example: en.wikipedia.org/wiki/Virus). The 'OK' and 'Cancel' buttons are at the bottom right.



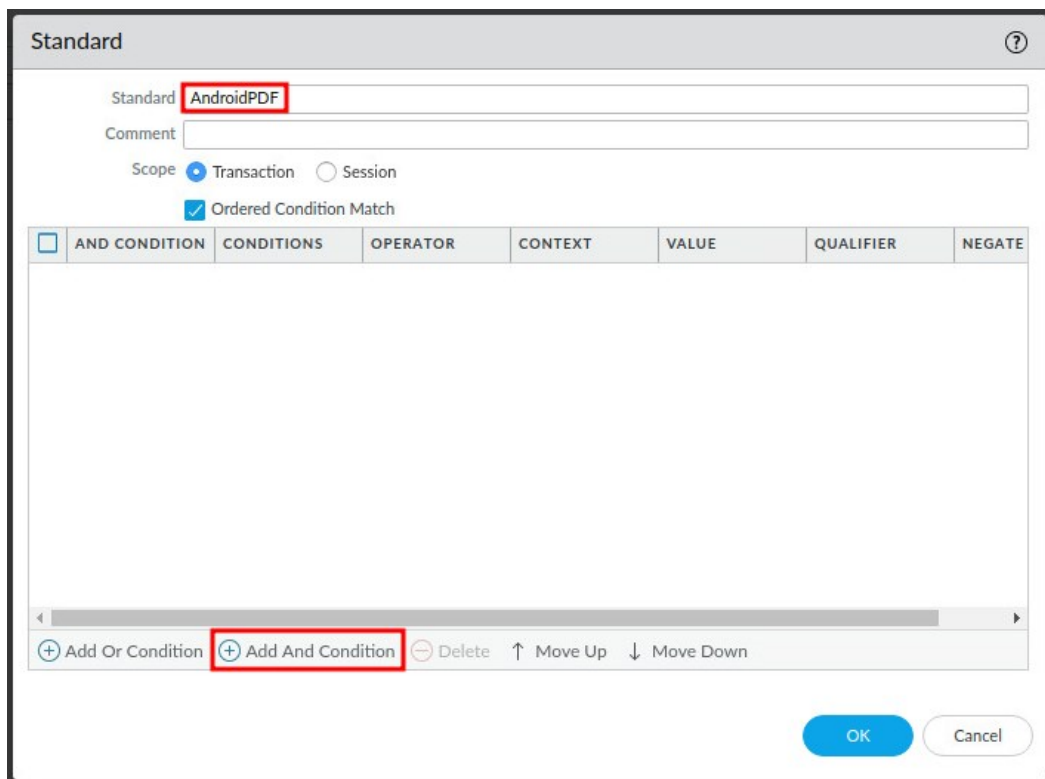
The Default Action, **Reset Both**, will be triggered when a match is detected to this Vulnerability Signature. For TCP, this will reset the connections on both the client and server ends. For UDP, the connection is dropped. This will effectively stop the traffic.

3. In the *Custom Vulnerability Signature* window, click on the **Signatures** tab. Then, click the **Add** button.



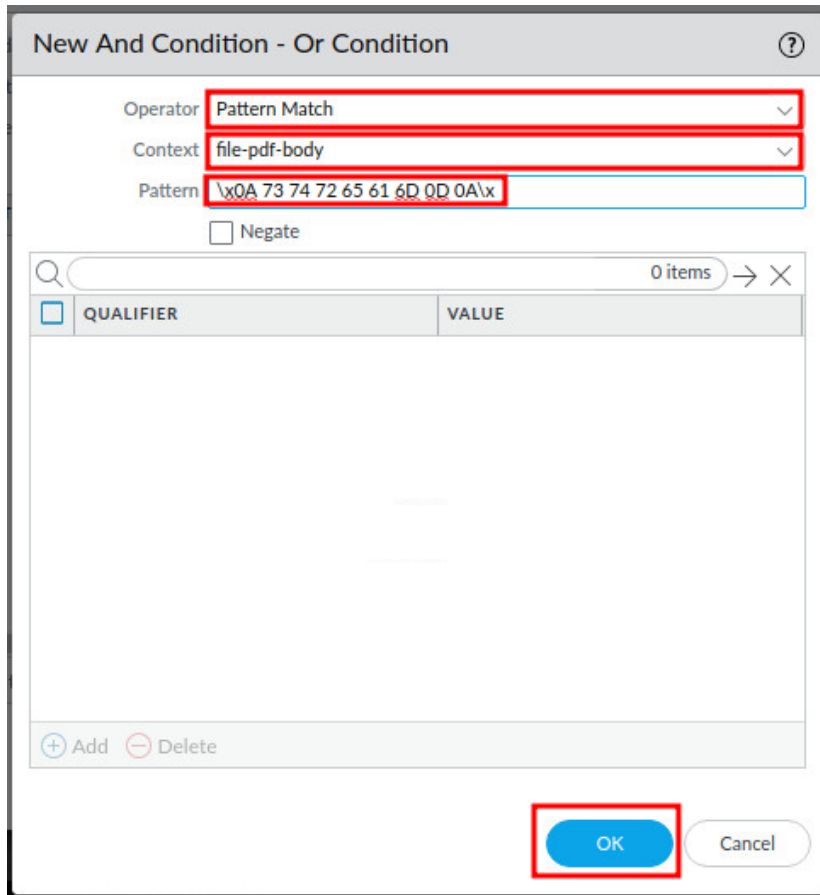
The screenshot shows the 'Custom Vulnerability Signature' window. The 'Signatures' tab is selected and highlighted with a red box. Below the tabs, there are radio buttons for 'Standard' (selected) and 'Combination'. A search bar shows '0 items'. Below the search bar is a table with columns: STANDARD, COMMENT, ORDERED CONDITION MATCH, and SCOPE. The table is currently empty. At the bottom left, there is a red box around the '+ Add' button. At the bottom right, there are 'OK' and 'Cancel' buttons.

4. In the *Standard* window box, type AndroidPDF in the *Standard* field. Then, click **Add And Condition**.



The screenshot shows the 'Standard' window. The 'Standard' field contains 'AndroidPDF' and is highlighted with a red box. Below it is a 'Comment' field. There are radio buttons for 'Transaction' (selected) and 'Session'. A checkbox for 'Ordered Condition Match' is checked. Below these is a table with columns: AND CONDITION, CONDITIONS, OPERATOR, CONTEXT, VALUE, QUALIFIER, and NEGATE. The table is currently empty. At the bottom, there is a red box around the '+ Add And Condition' button. Other buttons at the bottom include '+ Add Or Condition', '- Delete', '↑ Move Up', '↓ Move Down', 'OK', and 'Cancel'.

5. In the *New And Condition – Or Condition* window, select **Pattern Match** from the *Operator* dropdown. Then, select **file-pdf-body** from the *Context* dropdown. Next, type `\x0A 73 74 72 65 61 6D 0D 0A\x` in the *Pattern* field. Finally, click the **OK** button.



New And Condition - Or Condition

Operator: **Pattern Match**

Context: **file-pdf-body**

Pattern: `\x0A 73 74 72 65 61 6D 0D 0A\x`

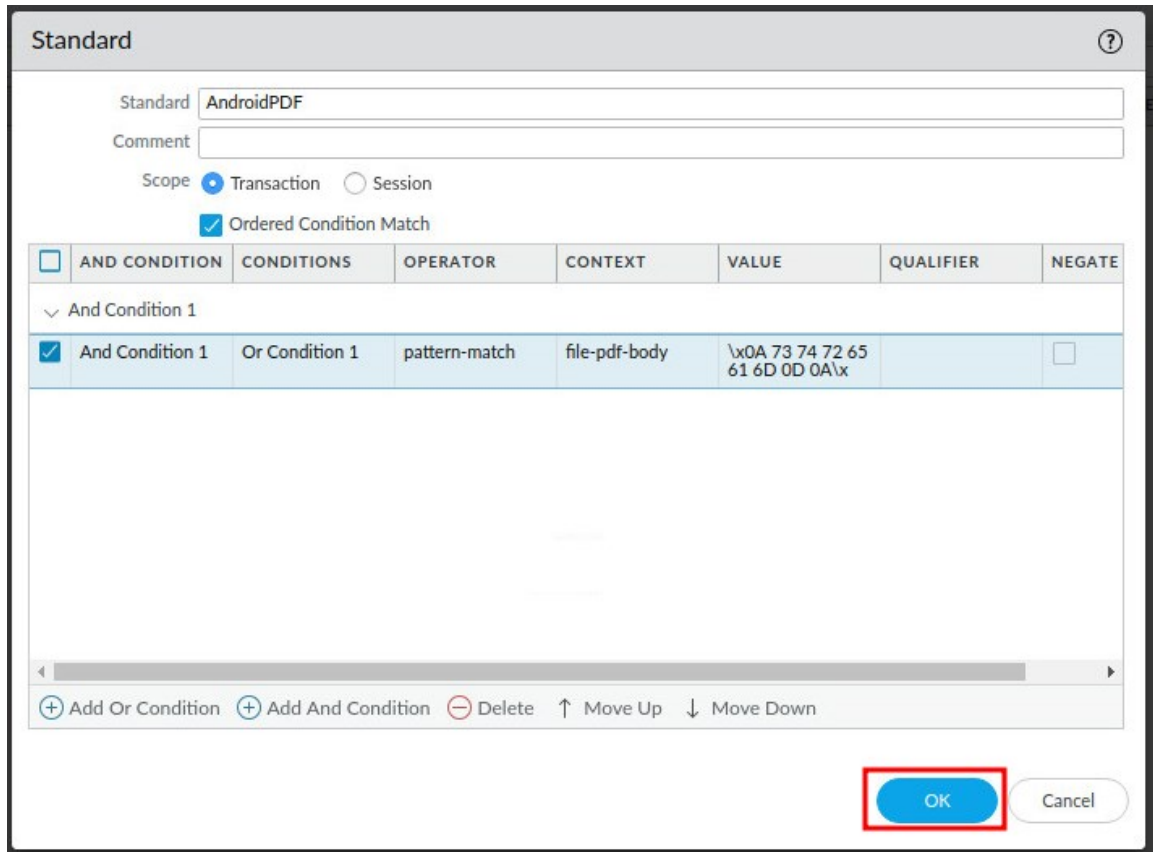
☐ Negate

QUALIFIER	VALUE
-----------	-------

+ Add - Delete

OK Cancel

6. In the *Standard* window, click the **OK** button.

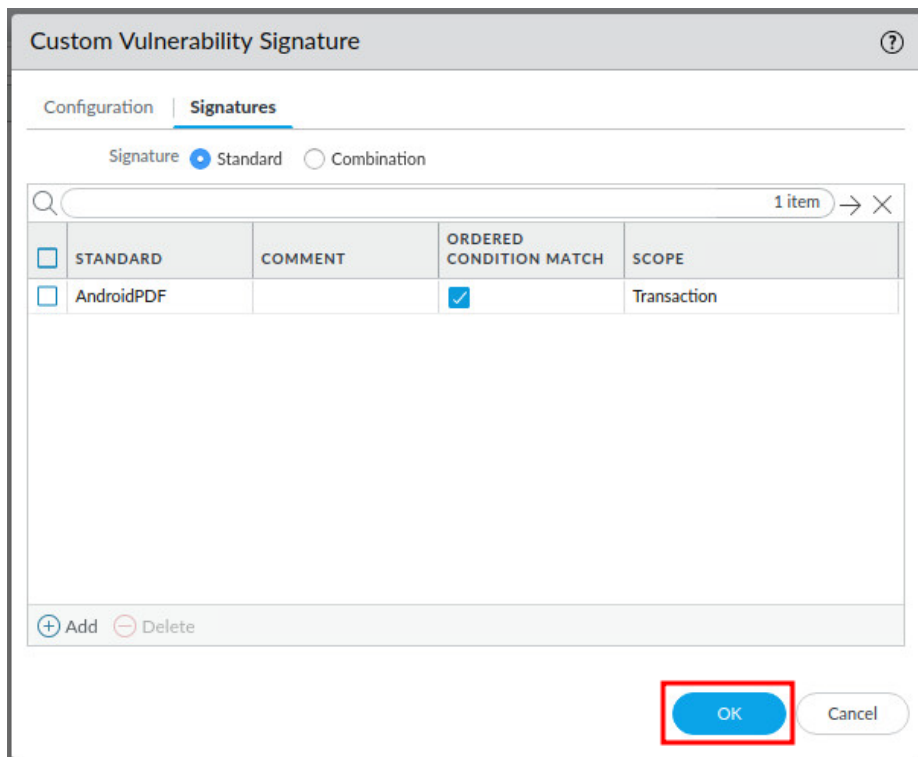


The **Standard** window is used to configure a vulnerability profile. It includes fields for **Standard** (set to **AndroidPDF**) and **Comment**. The **Scope** is set to **Transaction**, and **Ordered Condition Match** is checked. A table lists conditions for **And Condition 1**.

	AND CONDITION	CONDITIONS	OPERATOR	CONTEXT	VALUE	QUALIFIER	NEGATE
And Condition 1	<input checked="" type="checkbox"/>	And Condition 1	Or Condition 1	pattern-match	file-pdf-body	\x0A 73 74 72 65 61 6D 0D 0A\x	<input type="checkbox"/>

Buttons at the bottom include **OK** (highlighted with a red box) and **Cancel**.

7. In the *Custom Vulnerability Signature* window, click the **OK** button.



The **Custom Vulnerability Signature** window shows the **Signatures** tab. It includes a search bar and a table listing signatures.

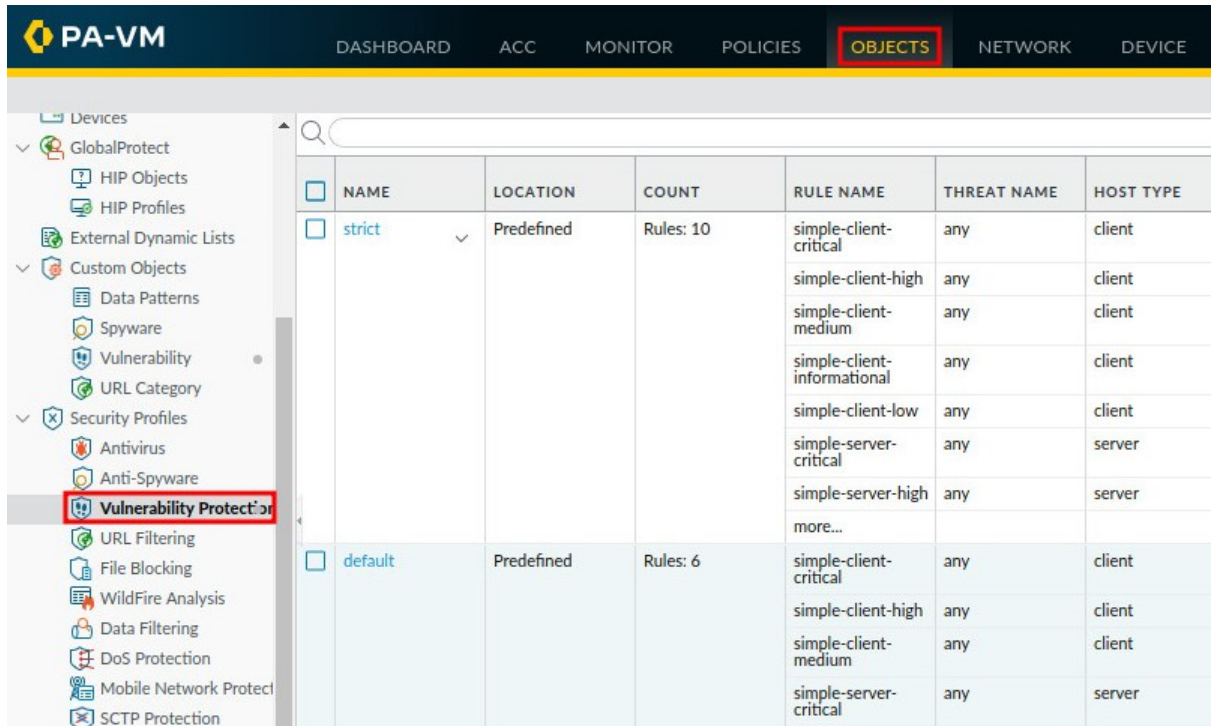
	STANDARD	COMMENT	ORDERED CONDITION MATCH	SCOPE
	<input type="checkbox"/>	AndroidPDF	<input checked="" type="checkbox"/>	Transaction

Buttons at the bottom include **OK** (highlighted with a red box) and **Cancel**.

1.4 Clone a Vulnerability Protection Profile

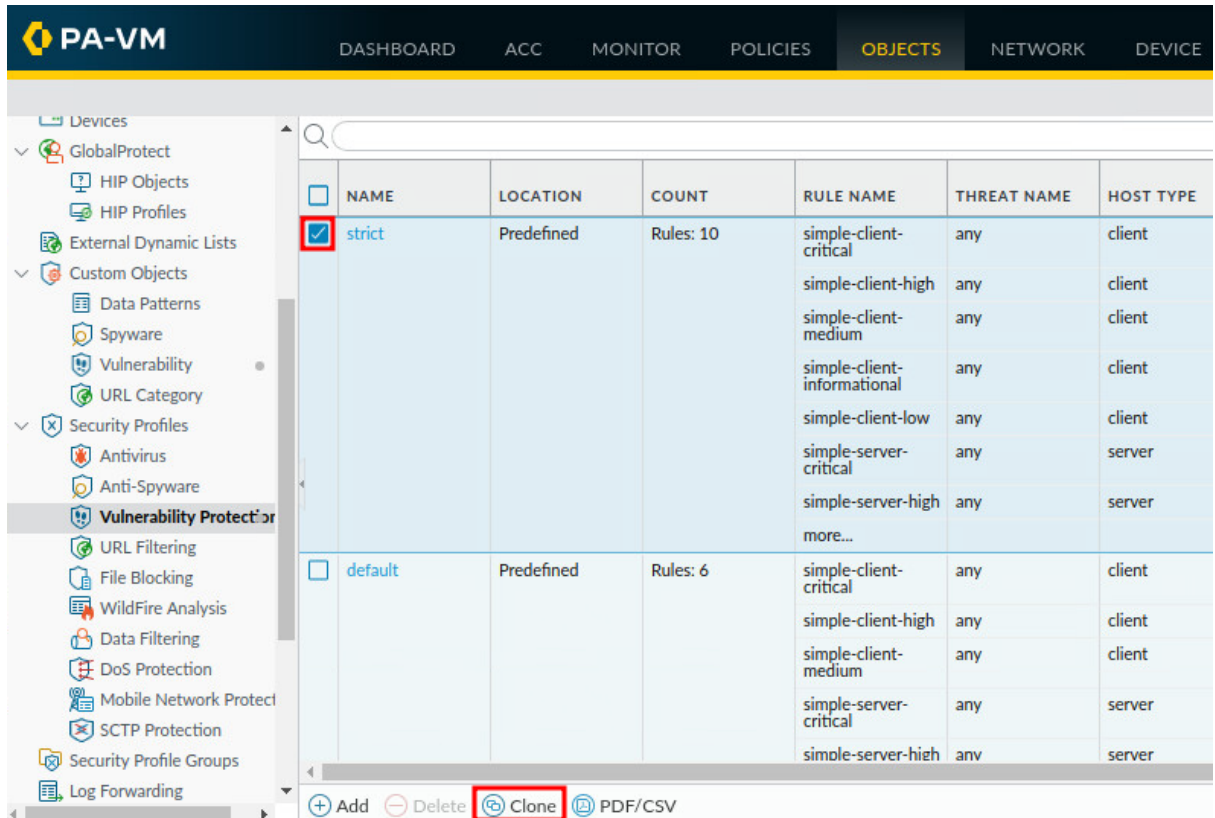
In this section, you will clone the **strict** Vulnerability Protection Profile. By creating a customized profile, you can minimize vulnerability-checking for traffic between trusted security zones, and maximize protection for traffic received from untrusted zones, such as the Internet. The **strict** profile applies the block response to all client and server critical, high, and medium severity events and uses the Default Action for low and informational vulnerability protection events.

1. Navigate to **Objects > Security Profiles > Vulnerability Protection**.



NAME	LOCATION	COUNT	RULE NAME	THREAT NAME	HOST TYPE
strict	Predefined	Rules: 10	simple-client-critical	any	client
			simple-client-high	any	client
			simple-client-medium	any	client
			simple-client-informational	any	client
			simple-client-low	any	client
			simple-server-critical	any	server
			simple-server-high	any	server
more...					
default	Predefined	Rules: 6	simple-client-critical	any	client
			simple-client-high	any	client
			simple-client-medium	any	client
			simple-server-critical	any	server

- Click the checkbox on the **strict** profile. Then, click the **Clone** button.

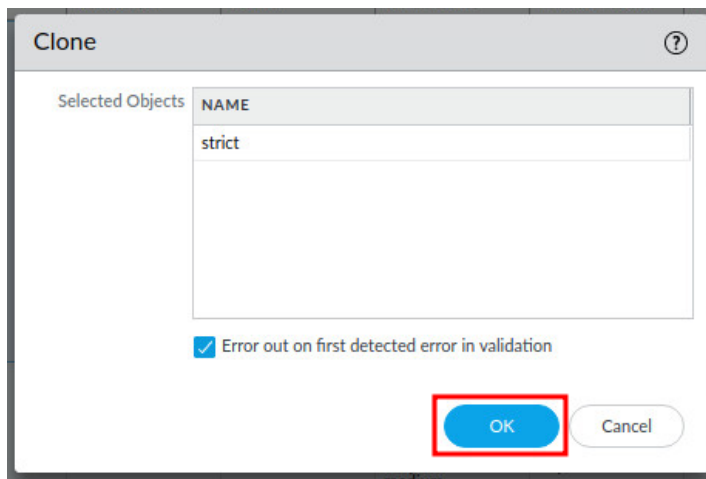


The screenshot shows the PA-VM interface with the 'OBJECTS' tab selected. The left sidebar lists various security features, with 'Vulnerability Protection' expanded. The main table displays a list of objects. The 'strict' profile is selected, and the 'Clone' button at the bottom is highlighted with a red box.

NAME	LOCATION	COUNT	RULE NAME	THREAT NAME	HOST TYPE
<input checked="" type="checkbox"/> strict	Predefined	Rules: 10	simple-client-critical	any	client
			simple-client-high	any	client
			simple-client-medium	any	client
			simple-client-informational	any	client
			simple-client-low	any	client
			simple-server-critical	any	server
			simple-server-high	any	server
			more...		
<input type="checkbox"/> default	Predefined	Rules: 6	simple-client-critical	any	client
			simple-client-high	any	client
			simple-client-medium	any	client
			simple-server-critical	any	server
			simple-server-high	any	server

Buttons: + Add, - Delete, **Clone**, PDF/CSV

- In the *Clone* window, click the **OK** button.



The screenshot shows the 'Clone' dialog box. The 'Selected Objects' list contains 'strict'. The 'Error out on first detected error in validation' checkbox is checked. The 'OK' button is highlighted with a red box.

Clone

Selected Objects

NAME
strict

☒ Error out on first detected error in validation

OK Cancel

4. Click on **strict-1**.

<input type="checkbox"/>	NAME	LOCATION	COUNT	RULE NAME	THREAT NAME	HOST TYPE	SEVERITY	ACTION	PACKET CAPTURE
<input checked="" type="checkbox"/>	strict	Predefined	Rules: 10	simple-client-critical	any	client	critical	reset-both	disable
				simple-client-high	any	client	high	reset-both	disable
				simple-client-medium	any	client	medium	reset-both	disable
				simple-client-informational	any	client	informational	default	disable
				simple-client-low	any	client	low	default	disable
				simple-server-critical	any	server	critical	reset-both	disable
				simple-server-high	any	server	high	reset-both	disable
				more...					
<input type="checkbox"/>	default	Predefined	Rules: 6	simple-client-critical	any	client	critical	default	disable
				simple-client-high	any	client	high	default	disable
				simple-client-medium	any	client	medium	default	disable
				simple-server-critical	any	server	critical	default	disable
				simple-server-high	any	server	high	default	disable
				simple-server-medium	any	server	medium	default	disable
<input type="checkbox"/>	strict-1		Rules: 10	simple-client-critical	any	client	critical	reset-both	disable

5. In the *Vulnerability Protection Profile* window, type PDF Vulnerability Protection in the *Name* field.

Vulnerability Protection Profile

Name **PDF Vulnerability Protection**

Description

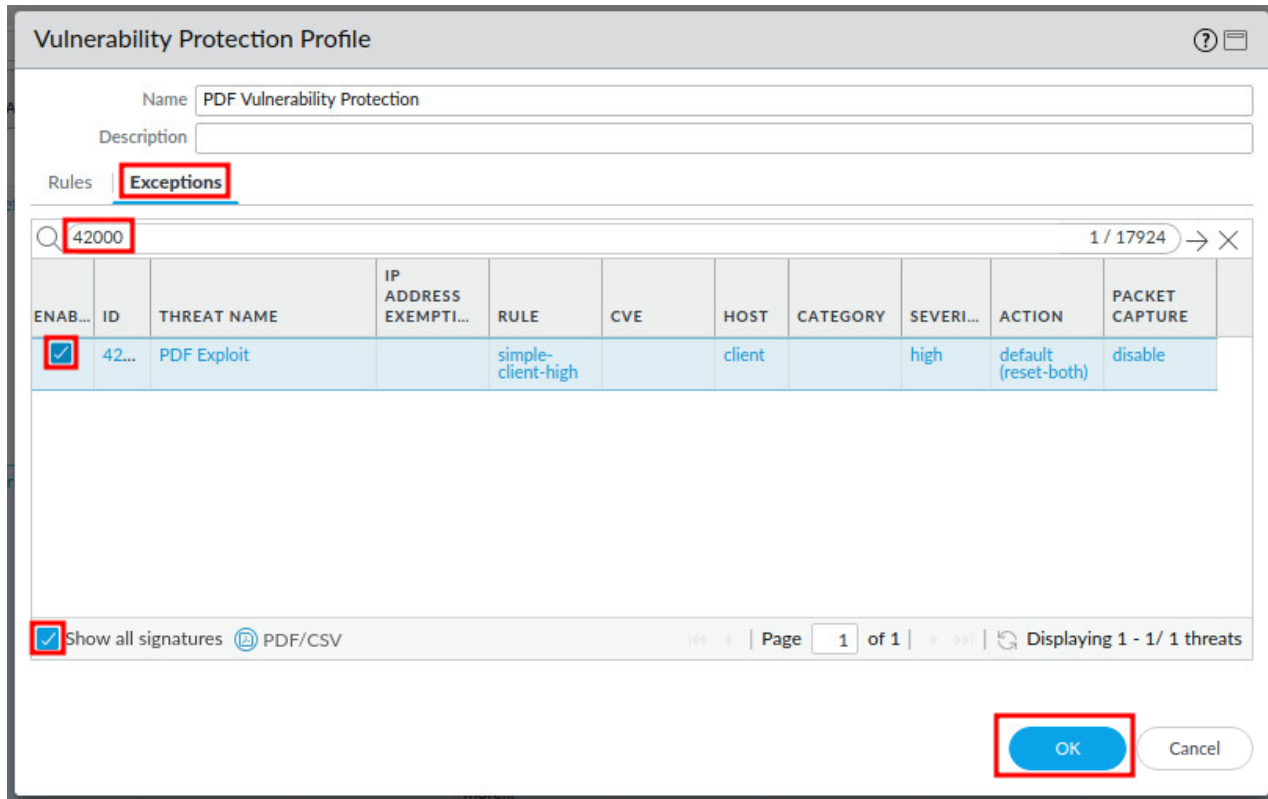
Rules | Exceptions

<input type="checkbox"/>	RULE NAME	THREAT NAME	CVE	HOST TYPE	SEVERITY	ACTION	PACKET CAPTURE
<input type="checkbox"/>	simple-client-critical	any	any	client	critical	reset-both	disable
<input type="checkbox"/>	simple-client-high	any	any	client	high	reset-both	disable
<input type="checkbox"/>	simple-client-medium	any	any	client	medium	reset-both	disable
<input type="checkbox"/>	simple-client-informational	any	any	client	informational	default	disable
<input type="checkbox"/>	simple-client-low	any	any	client	low	default	disable
<input type="checkbox"/>	simple-server-critical	any	any	server	critical	reset-both	disable
<input type="checkbox"/>	simple-server-high	any	any	server	high	reset-both	disable

+ Add - Delete ↑ Move Up ↓ Move Down ↺ Clone 🔍 Find Matching Signatures

OK Cancel

- In the *Vulnerability Protection Profile* window, click the **Exceptions** tab. Type 42000 in the search box. Then, click the checkbox for **Show all signatures**. Next, click the **Enable** checkbox for the **PDF Exploit** signature. Finally, click the **OK** button.



Vulnerability Protection Profile

Name: PDF Vulnerability Protection

Description:

Rules: **Exceptions**

Search: 42000 1 / 17924

ENAB...	ID	THREAT NAME	IP ADDRESS EXEMPTI...	RULE	CVE	HOST	CATEGORY	SEVERI...	ACTION	PACKET CAPTURE
<input checked="" type="checkbox"/>	42...	PDF Exploit		simple-client-high		client		high	default (reset-both)	disable

☒ Show all signatures PDF/CSV

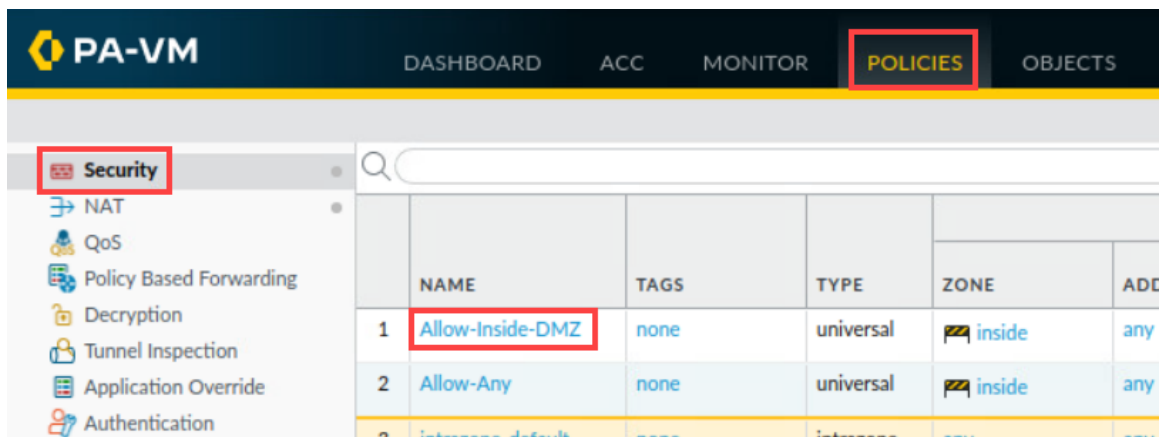
Page 1 of 1 | Displaying 1 - 1/ 1 threats

OK Cancel

1.5 Apply Custom Vulnerability Protection Profile to a Security Policy

In this section, you will apply the Custom Vulnerability Protection Profile, **PDF Vulnerability Protection**, to the **Allow-Inside-DMZ** security policy for enforcement.

- Navigate to **Policies > Security > Allow-Inside-DMZ**.



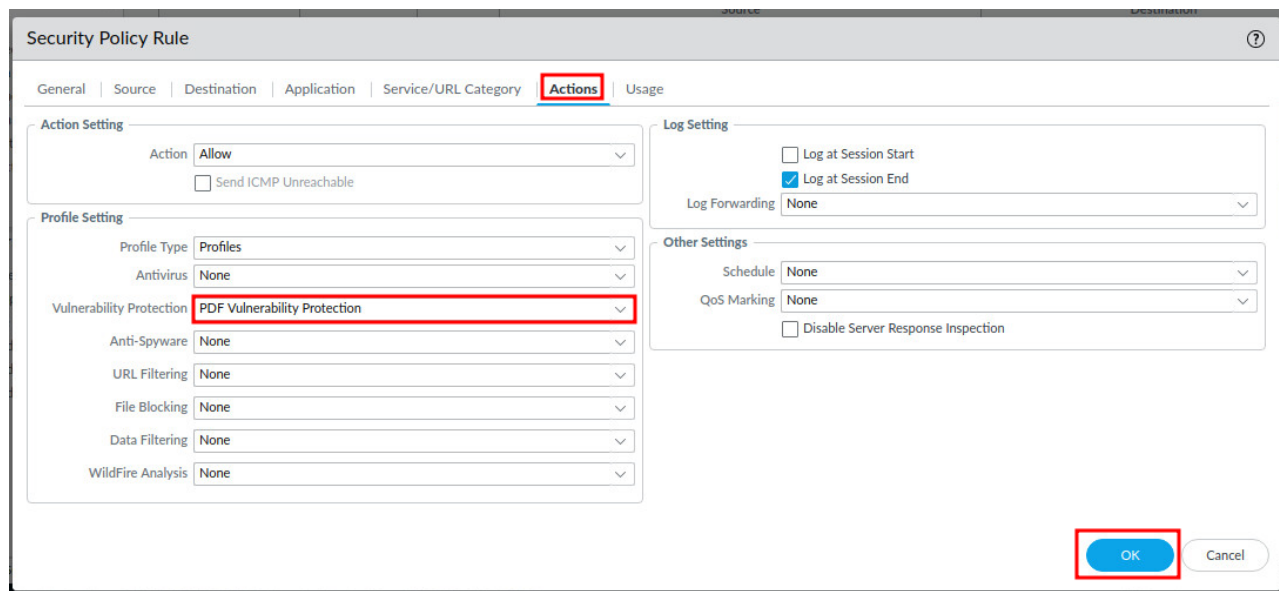
PA-VM DASHBOARD ACC MONITOR **POLICIES** OBJECTS

Security

- NAT
- QoS
- Policy Based Forwarding
- Decryption
- Tunnel Inspection
- Application Override
- Authentication

	NAME	TAGS	TYPE	ZONE	ADD
1	Allow-Inside-DMZ	none	universal	inside	any
2	Allow-Any	none	universal	inside	any
3	intrazone-default	none	intrazone	any	any

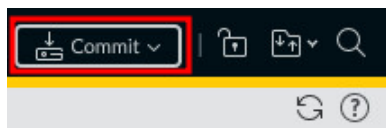
2. In the *Security Policy Rule* window, select the **Actions** tab. Then, select **Profiles** from the *Profile Type* dropdown. Next, select **PDF Vulnerability Protection** from the *Vulnerability Protection* dropdown. Finally, click on the **OK** button.



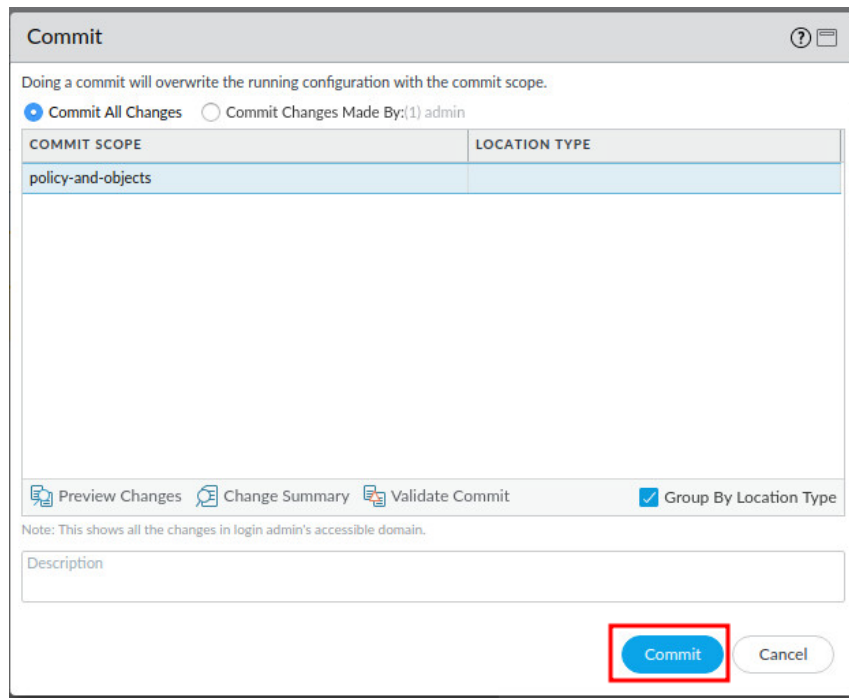
1.6 Commit and Test Vulnerability Protection

In this section, you will commit your changes to the Firewall. Then, you will attempt to download an infected PDF file and test the Vulnerability Protection. Next, you will verify it in the Threat Logs of the Palo Alto Networks Firewall.

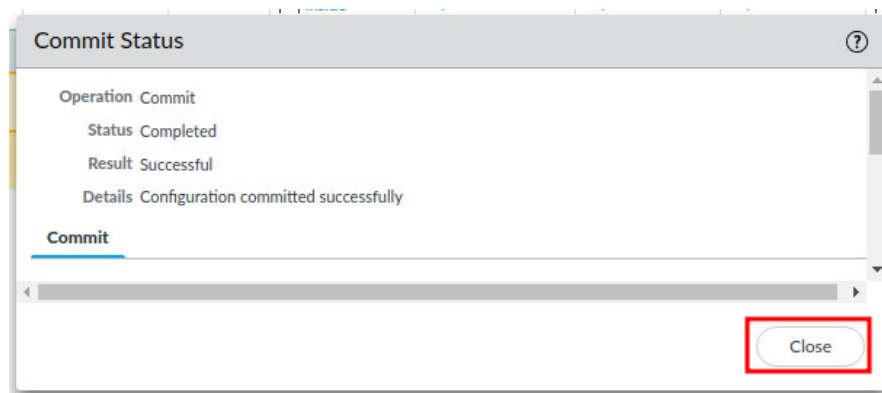
1. Click the **Commit** link located at the top-right of the web interface.



2. In the *Commit* window, click **Commit** to proceed with committing the changes.



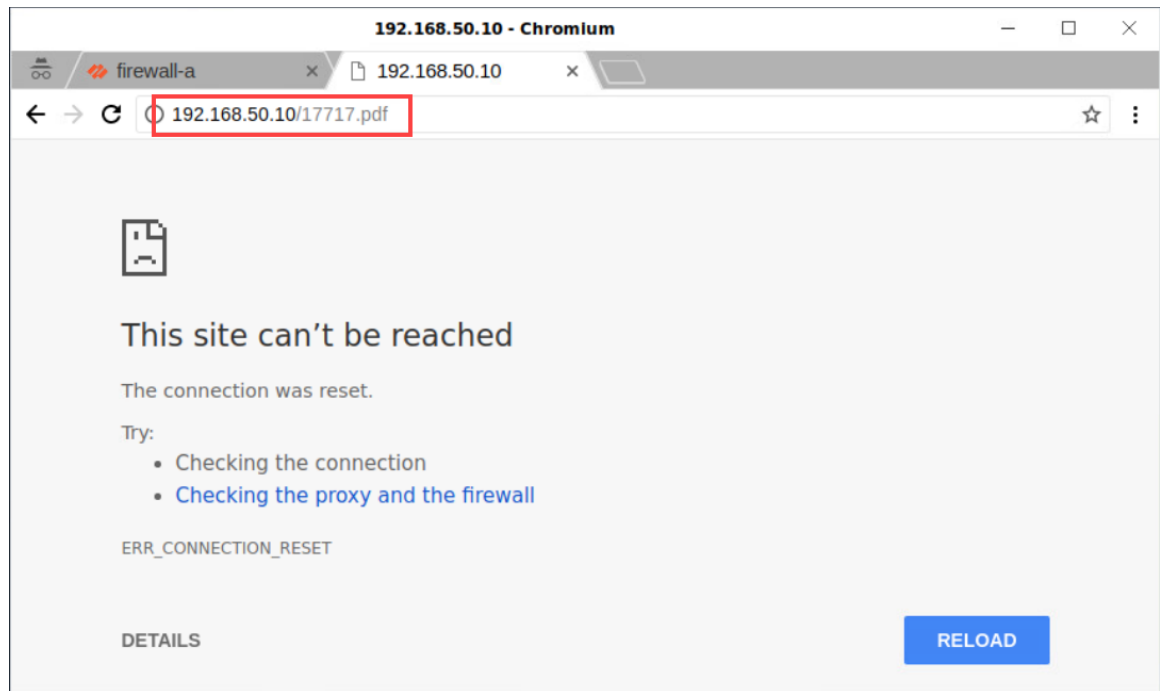
3. When the commit operation successfully completes, click **Close** to continue.



4. Click on the **New tab** button in the upper-left.

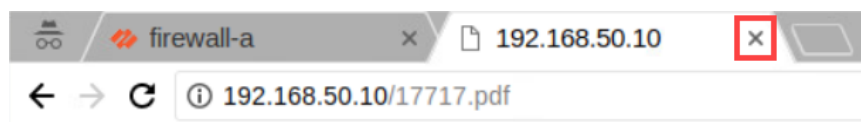


5. In the address bar, type `http://192.168.50.10/17717.pdf` and press **Enter**.

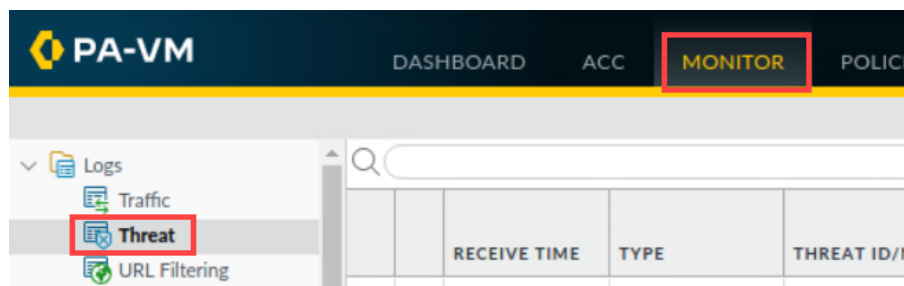


Notice the error message, *This site can't be reached*. This is because the connection was reset by the Firewall to stop the exploit.


6. Click the **X** on the `192.168.50.10` tab.



7. Navigate to **Monitor > Logs > Threat**.



- Notice the threats listed (make sure that the search filter is cleared). Click on the **Detailed Log View** button.

	RECEIVE TIME	TYPE	THREAT ID/NAME	FROM ZONE	TO ZONE	SOURCE ADDRESS
	10/16 23:00:49	vulnerability	PDF Exploit	inside	dmz	192.168.1.20
	10/16 22:59:49	vulnerability	PDF Exploit	inside	dmz	192.168.1.20
	10/16 22:59:14	vulnerability	PDF Exploit	inside	dmz	192.168.1.20
	10/16 22:26:21	spyware	Suspicious TLS Evasion	inside	outside	192.168.1.20

- In the *Detailed Log View* window, analyze the threat, reviewing the information. In the *General* section, notice the *Action* taken. Scroll down and in the *Details* section, notice the *Threat Type*, *Threat Name*, and *ID*. At the bottom, you can see a list of all the sessions related to this log entry.

Detailed Log View

Session ID 500

Action **reset-both**

Host ID

Application web-browsing

Rule Allow-Inside-DMZ

Rule UUID 504513ce-1998-409e-adbf-209e1887d271

Device SN

IP Protocol tcp

Log Action

Source User

Source **192.168.1.20**

Source DAG

Country 192.168.0.0-192.168.255.255

Port 50200

Zone inside

Interface ethernet1/2

X-Forwarded-For IP 0.0.0.0

Destination User

Destination **192.168.50.10**

Destination DAG

Country 192.168.0.0-192.168.255.255

Port 80

Zone dmz

Interface ethernet1/3

Flags

PCAP	RECEIVE TIME	TYPE	APPLICAT...	ACTION	RULE	RULE UUID	BY...	SEVERI...	CATEG...	URL CATEG... LIST	VERDI...	URL	FILE NAME
	2023/10/16 23:02:14	end	web-browsing	allow	Allow-Inside-DMZ	50451...	15...		any				
	2023/10/16 23:00:49	vulnera...	web-browsing	reset-both	Allow-Inside-DMZ	50451...		high	any				17717....

Close

Detailed Log View

tunnel type N/A

Details

Threat Type vulnerability

Threat ID/Name PDF Exploit

ID 42000 ([View in Threat Vault](#))

Category unknown

Content Version AppThreat-0-0

Severity high

Repeat Count 1

File Name 17717.pdf

URL

Decrypted ☐

Packet Capture ☐

Client to Server ☐

Server to Client ☒

Tunnel Inspected ☐

DeviceID

Source Device Category

Source Device Profile

Source Device Model

PCAP	RECEIVE TIME	TYPE	APPLICAT...	ACTION	RULE	RULE UUID	BY...	SEVERI...	CATEG...	URL CATEG... LIST	VERDI...	URL	FILE NAME
	2023/10/16 23:02:14	end	web-browsing	allow	Allow-Inside-DMZ	50451...	15...		any				
	2023/10/16 23:00:49	vulnera...	web-browsing	reset-both	Allow-Inside-DMZ	50451...		high	any				17717....

Close

10. The lab is now complete; you may end the reservation.