



# SECURITY OPERATIONS FUNDAMENTALS V2

## Lab 7: Threat Intelligence

Document Version: **2025-04-18**

Copyright © 2025 Network Development Group, Inc.  
[www.netdevgroup.com](http://www.netdevgroup.com)

NETLAB+ is a registered trademark of Network Development Group, Inc.

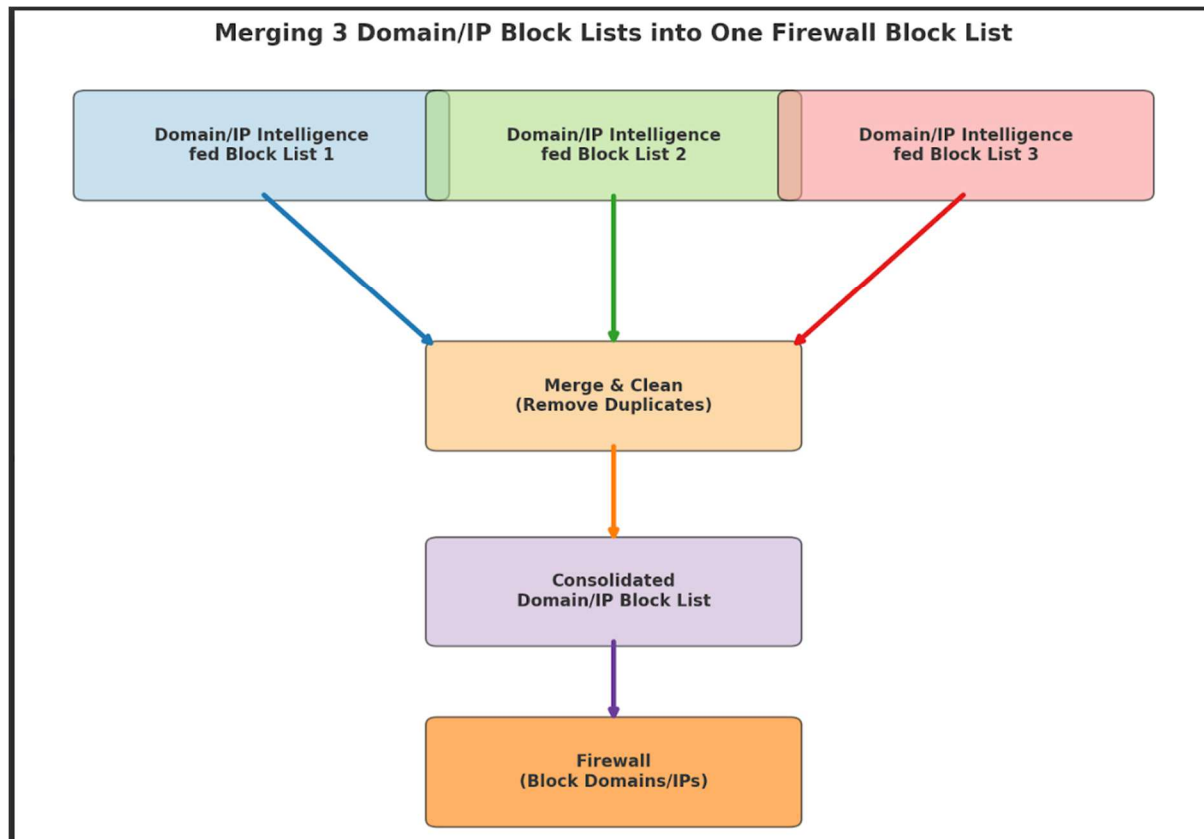
Palo Alto Networks and the Palo Alto Networks logo are trademarks or registered trademarks of Palo Alto Networks, Inc.

## Contents

Introduction .....	3
Objective .....	3
Lab Topology .....	4
Lab Settings .....	5
1 Threat Intelligence.....	6
1.0 Load Lab Configuration .....	6
1.1 Examine and Run the IP Blocking List Intelligence Script.....	11
1.2 Examine and Run the Domain Blocking List Intelligence Feed Script .....	16
1.3 Configure an External Dynamic List (EDL) on the Firewall Appliance Using the Python Script Blocklists .....	20

## Introduction

In this lab, you will use python scripts to create a domain block list and an IP address blocklist. The scripts will use intelligence feeds from 3 different sources and combine them into one domain blocklist and one IP address blocklist. The scripts will also create localhost websites to post the blocklists on. You will then configure your firewall to use the blocklists to block traffic sourced from the entries in the blocklists.

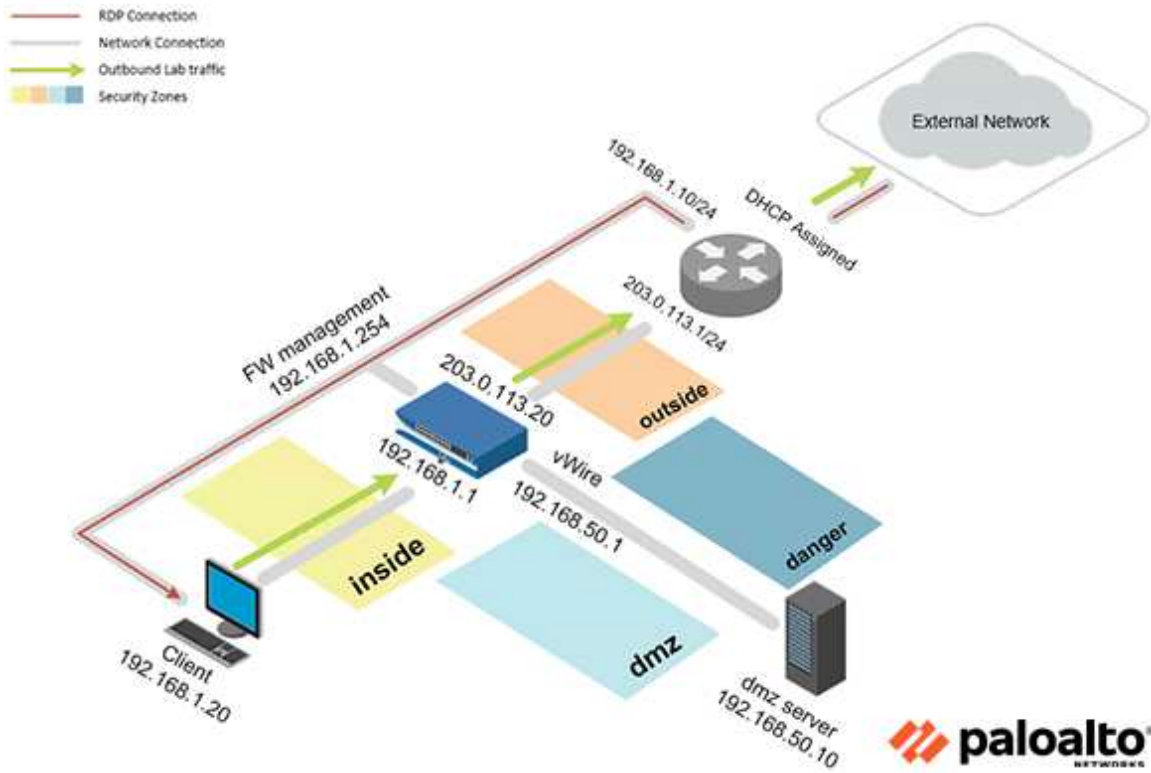


## Objective

In this lab, you will perform the following tasks:

- Explore and comprehend intelligence feed blocklists
- Understand how a python script can use intelligence feeds to create a domain blocklist and or IP blocklist from intelligence feeds
- Execute python scripts to create blocklists
- Configure the firewall appliance to use the blocklists to block traffic from malicious sites

## 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 Threat Intelligence

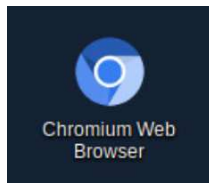
### 1.0 Load Lab Configuration

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

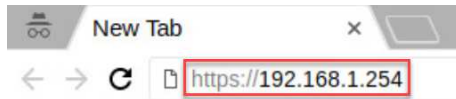
1. Click on the **Client** tab to access the client PC.



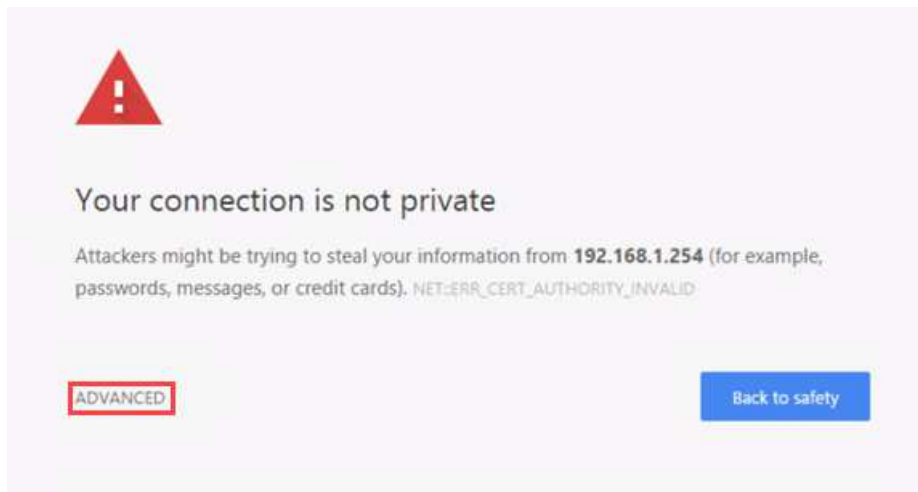
2. Log in to the client PC with the username `lab-user` and password `Pa10Alt0!`.
3. Double-click the **Chromium** icon located on the desktop.



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

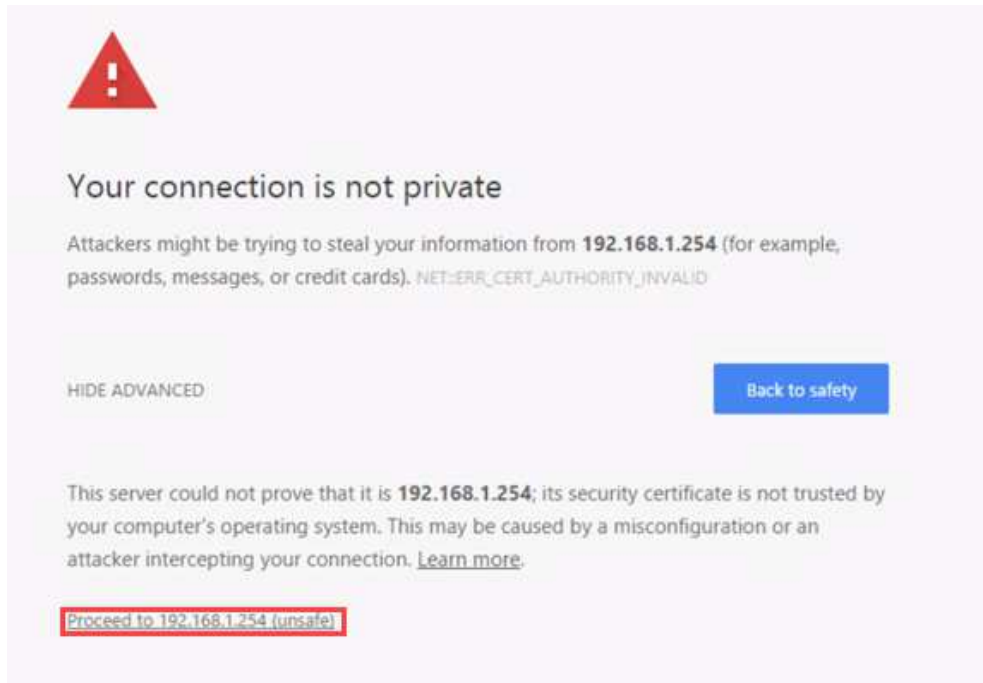


5. You will see a “Your connection is not private” message. Click on the **ADVANCED** link.



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.

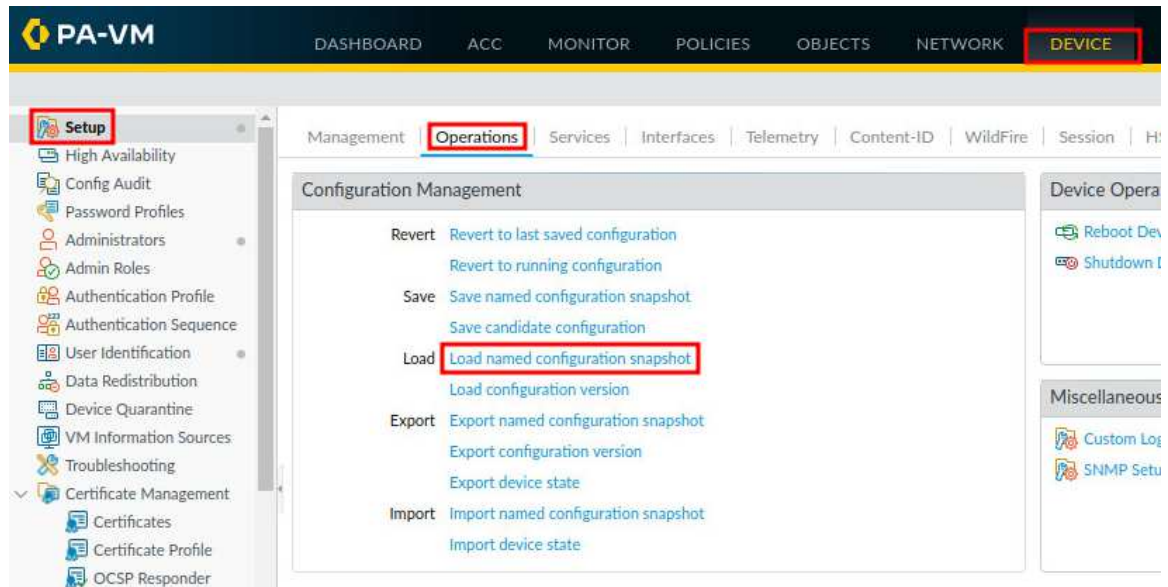
- Click on **Proceed to 192.168.1.254 (unsafe)**.



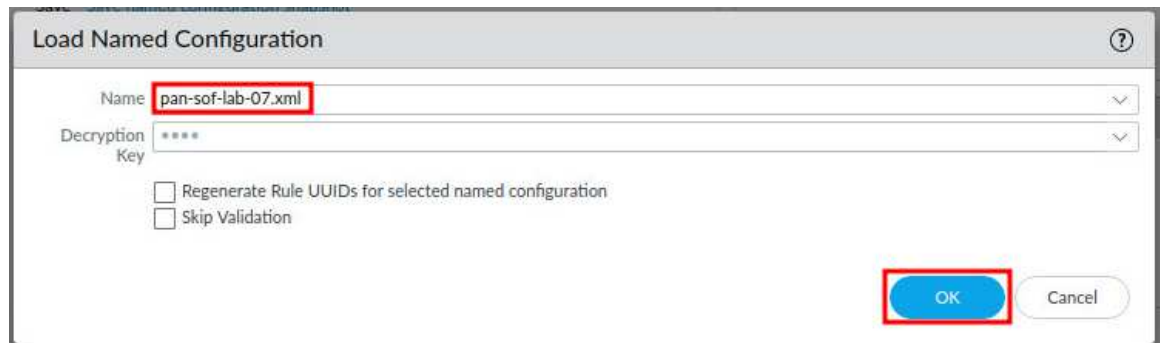
- Log in to the Firewall web interface as username admin, password Pal0Alt0!.



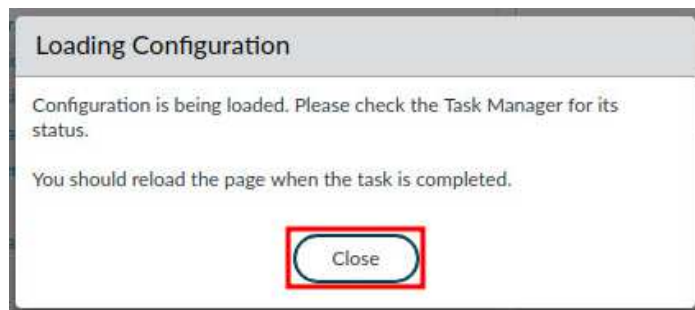
8. In the web interface, navigate to **Device > Setup > Operations** and click on **Load named configuration snapshot** in the *Configuration Management* section.



9. In the *Load Named Configuration* window, select **pan-sof-lab-07.xml** from the *Name* dropdown list 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.

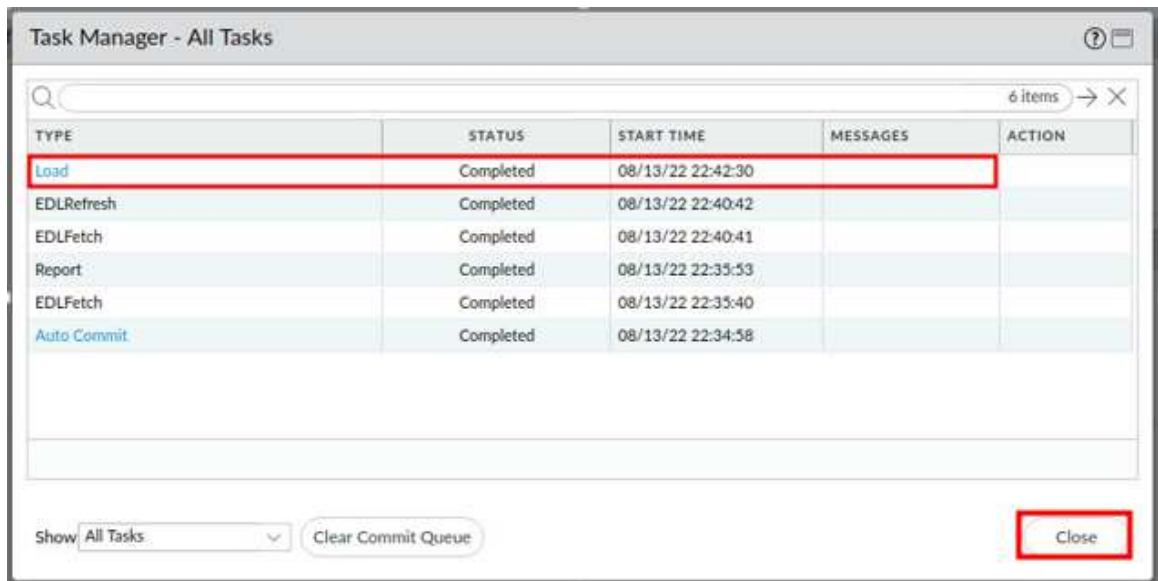




11. Click the **Tasks** icon located at the bottom-right of the web interface.



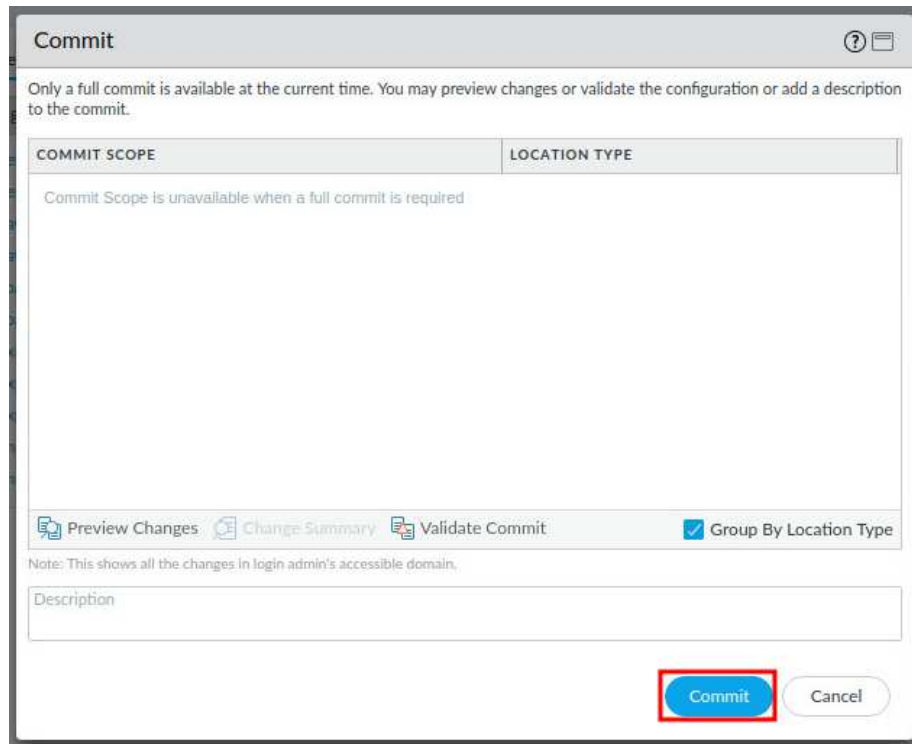
12. In the *Task Manager – All Tasks* window, verify that the *Load* type has successfully completed. Click **Close**.



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.

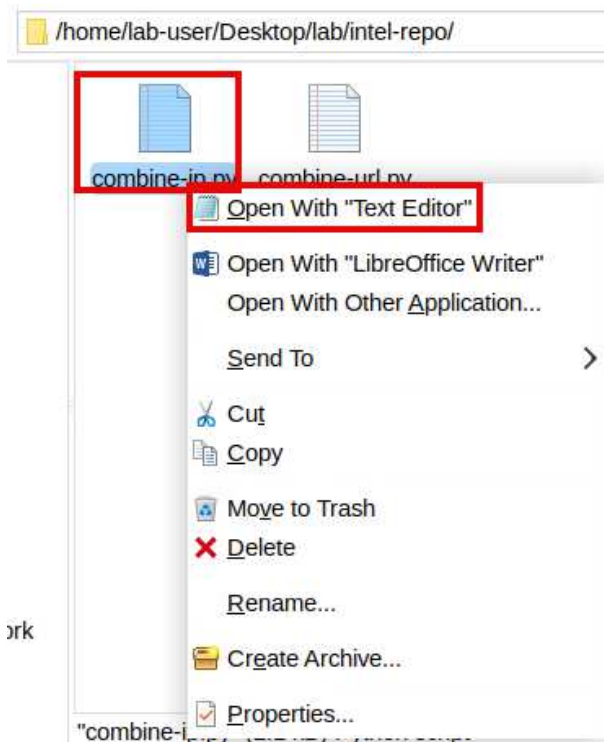
## 1.1 Examine and Run the IP Blocking List Intelligence Script

In this section, you will examine and run the *combine-ip.py* python script. This script will use three cybersecurity intelligence feeds to create one IP blocklist that will be posted on a localhost website.

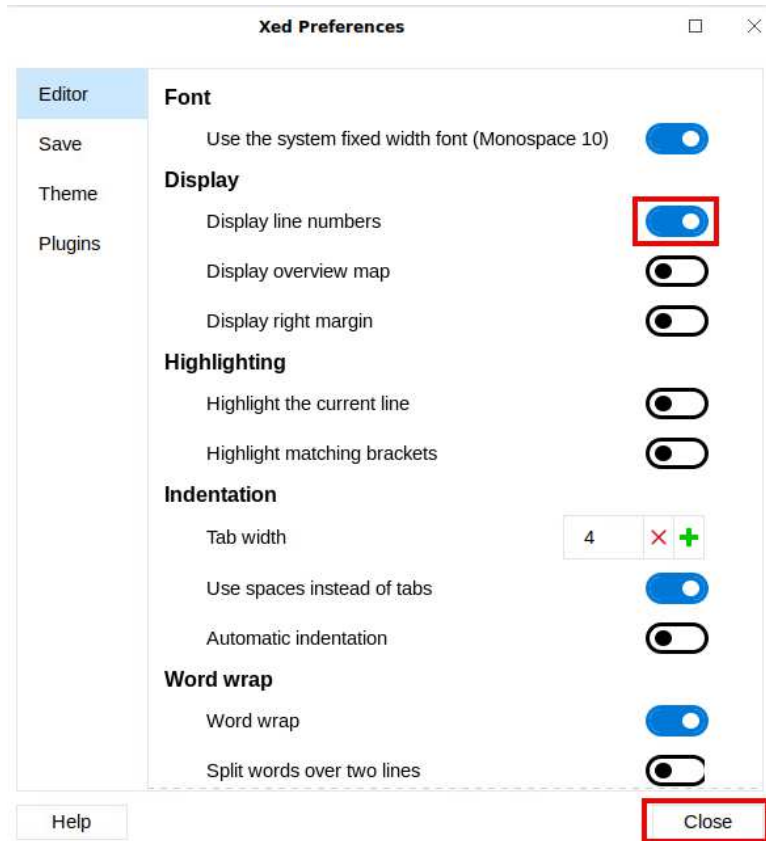
1. While on the *Client*, open the **lab** folder on the Desktop. Then, navigate to the **intel-repo** folder within it.



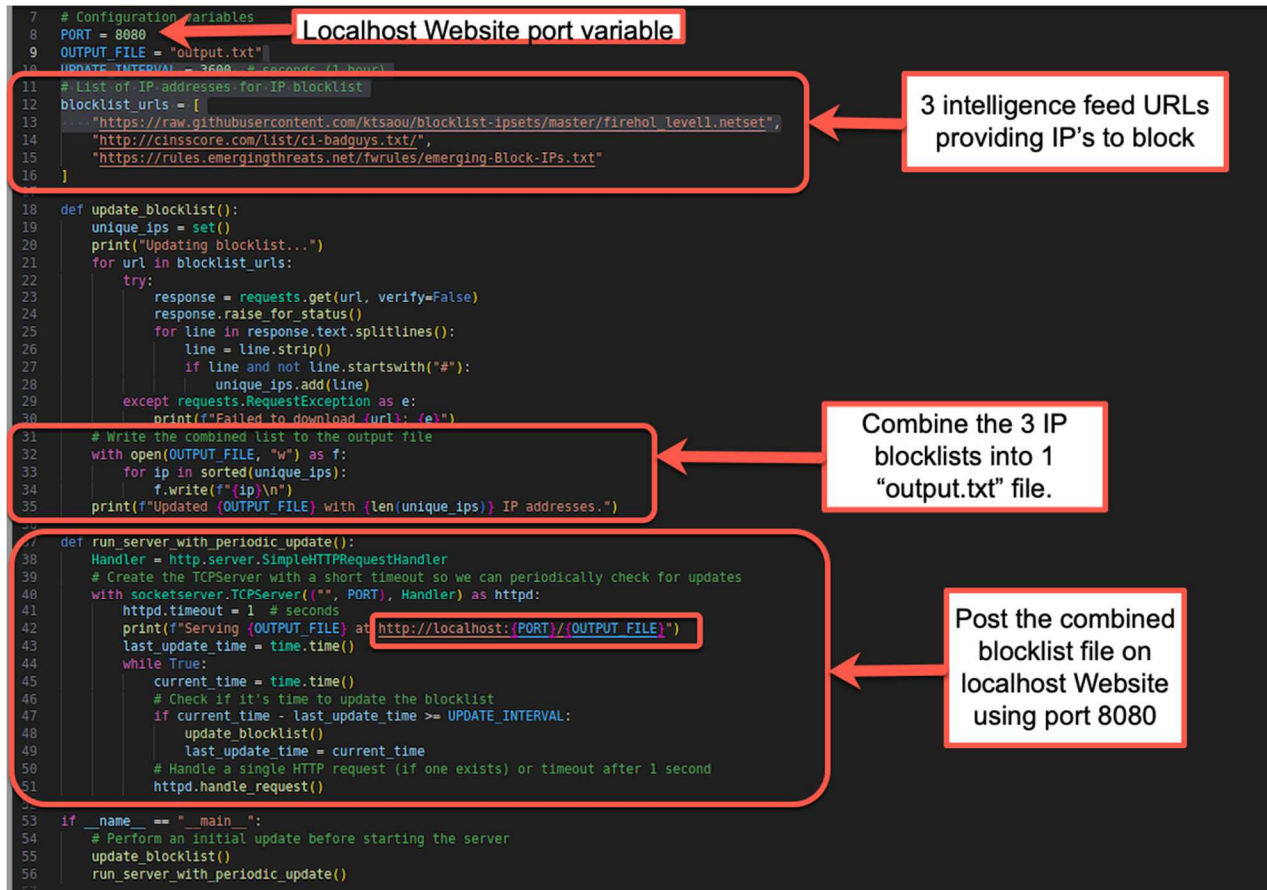
2. Right-click the **combine-ip.py** and open it with the text editor.



3. In the new text editor window, navigate to **Edit** and enable **Display line numbers** to help you examine the python script. Click **Close** in the *Xed Preferences* window.



4. Examine the *combine-ip.py* python script using the screenshot below as your guide. Lines 12-16 provide the URL addresses for the intelligence feeds that will provide the IP blocklists. These are IP addresses of known bad Internet hosts identified via the intelligence sources. Lines 31-35 combine the IP blocklists from the three intelligence repositories into one *output.txt* file. Lines 37-51 post the *output.txt* on a localhost website using port 8080, which was listed as a *PORT* variable in line 8 of the script.



```

7 # Configuration variables
8 PORT = 8080
9 OUTPUT_FILE = "output.txt"
10 UPDATE_INTERVAL = 3600 # seconds (1 hour)
11
12 # List of IP addresses for IP blocklist
13 blocklist_urls = [
14     "https://raw.githubusercontent.com/ktsaou/blocklist-ipsets/master/firehol_level1.netset",
15     "http://cinsscore.com/list/ci-badguys.txt/",
16     "https://rules.emergingthreats.net/fwrules/emerging-Block-IPs.txt"
17 ]
18
19 def update_blocklist():
20     unique_ips = set()
21     print("Updating blocklist...")
22     for url in blocklist_urls:
23         try:
24             response = requests.get(url, verify=False)
25             response.raise_for_status()
26             for line in response.text.splitlines():
27                 line = line.strip()
28                 if line and not line.startswith("#"):
29                     unique_ips.add(line)
30         except requests.RequestException as e:
31             print(f"Failed to download {url}: {e}")
32
33 # Write the combined list to the output file
34 with open(OUTPUT_FILE, "w") as f:
35     for ip in sorted(unique_ips):
36         f.write(f"{ip}\n")
37     print(f"Updated {OUTPUT_FILE} with {len(unique_ips)} IP addresses.")
38
39 def run_server_with_periodic_update():
40     Handler = http.server.SimpleHTTPRequestHandler
41     # Create the TCPServer with a short timeout so we can periodically check for updates
42     with socketserver.TCPServer(("", PORT), Handler) as httpd:
43         httpd.timeout = 1 # seconds
44         print(f"Serving {OUTPUT_FILE} at http://localhost:{PORT}/{OUTPUT_FILE}")
45         last_update_time = time.time()
46         while True:
47             current_time = time.time()
48             # Check if it's time to update the blocklist
49             if current_time - last_update_time >= UPDATE_INTERVAL:
50                 update_blocklist()
51                 last_update_time = current_time
52             # Handle a single HTTP request (if one exists) or timeout after 1 second
53             httpd.handle_request()
54
55 if __name__ == "__main__":
56     # Perform an initial update before starting the server
57     update_blocklist()
58     run_server_with_periodic_update()
59

```

**Localhost Website port variable**

**3 intelligence feed URLs providing IP's to block**

**Combine the 3 IP blocklists into 1 "output.txt" file.**

**Post the combined blocklist file on localhost Website using port 8080**

- Copy the first blacklist URL listed from line 13,  
**[https://raw.githubusercontent.com/ktsaou/blocklist-ipsets/master/firehol\\_level1.netset](https://raw.githubusercontent.com/ktsaou/blocklist-ipsets/master/firehol_level1.netset)**.

```

combine-ip.py x
1 import http.server
2 import socketserver
3 import threading
4 import requests
5 import time
6
7 # Configuration variables
8 PORT = 8080
9 OUTPUT_FILE = "output.txt"
10 UPDATE_INTERVAL = 3600 # seconds (1 hour)
11 # List of IP addresses for IP blacklist
12 blacklist_urls = [
13     "https://raw.githubusercontent.com/ktsaou/blocklist-ipsets/master/firehol_level1.netset",
14     "http://cisssec.com/list/c2_badguys.txt",
15     "https://rules.emergingthreats.net/fwrules/emerging-Block-IPs.txt"
16 ]
17
18 def update_blocklist():
19     unique_ips = set()
20     print("Updating blacklist...")
21     for url in blacklist_urls:
22         try:
23             response = requests.get(url, verify=False)
24             response.raise_for_status()
25             for line in response.text.splitlines():
26                 line = line.strip()
27                 if line and not line.startswith("#"):
28                     unique_ips.add(line)

```

Context menu options: Undo, Redo, Cut, **Copy**, Paste, Delete, Select All, Insert Emoji, Change Case

- Navigate to the *Chromium* web browser, paste the URL into a new open tab, and access the website with a list of bad IP addresses. Note the description of this blacklist:

```

← → ↻ 🔒 Secure https://raw.githubusercontent.com/ktsaou/blocklist-ipsets/master/firehol_level1.netset
#
# firehol_level1
#
# ipv4 hash:net ipset
#
# A firewall blacklist composed from IP lists, providing
# maximum protection with minimum false positives. Suitable
# for basic protection on all internet facing servers,
# routers and firewalls. (includes: bambenek_c2 dshield feodo
# fullbogons spamhaus_drop spamhaus_edrop sslbl ransomware_rw)
#

```

*"A firewall blacklist composed from IP lists, providing maximum protection with minimum false positives. Suitable for basic protection on all internet facing servers, routers and firewalls. (includes: bambenek\_c2 dshield feodo fullbogons spamhaus\_drop spamhaus\_edrop sslbl ransomware\_rw)"*

After you have completed your review, close the *combine-ip.py* text file and be sure not to save any accidental changes you may have made to this file.

7. Open the **Xfce Terminal** by clicking on the **Terminal** icon.



8. In the terminal, change to the *intel-repo* directory where the python scripts are located.

```
C:\home\lab-user> cd Desktop/lab/intel-repo
```

```
C:\home\lab-user> cd Desktop/lab/intel-repo  
C:\home\lab-user\Desktop\lab\intel-repo> █
```

9. Run the **combine-ip.py** python script. After entering the command, press the **Enter** key once more to return to the prompt. Keep the terminal window open and uninterrupted.

```
C:\home\lab-user\Desktop\lab\intel-repo> python3 combine-ip.py &
```

```
C:\home\lab-user\Desktop\lab\intel-repo> python3 combine-ip.py &  
[1] 19708  
C:\home\lab-user\Desktop\lab\intel-repo> Updating blocklist...  
/usr/lib/python3/dist-packages/urllib3/connectionpool.py:860: InsecureRequestWarning:  
Unverified HTTPS request is being made. Adding certificate verification is strongly  
advised. See: https://urllib3.readthedocs.io/en/latest/advanced-usage.html#ssl-  
warnings  
InsecureRequestWarning)  
Failed to download http://cinsscore.com/list/ci-badguys.txt/: 404 Client Error: Not  
Found for url: http://cinsscore.com/list/ci-badguys.txt/  
/usr/lib/python3/dist-packages/urllib3/connectionpool.py:860: InsecureRequestWarning:  
Unverified HTTPS request is being made. Adding certificate verification is strongly  
advised. See: https://urllib3.readthedocs.io/en/latest/advanced-usage.html#ssl-  
warnings  
InsecureRequestWarning)  
Updated output.txt with 4464 IP addresses.  
Serving output.txt at http://localhost:8080/output.txt  
C:\home\lab-user\Desktop\lab\intel-repo> █
```

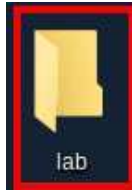
10. Navigate to the **Chromium** web browser, open a new tab, and enter the following URL to view the consolidated IP blocklist:  
`http://192.168.1.20:8080/output.txt`.



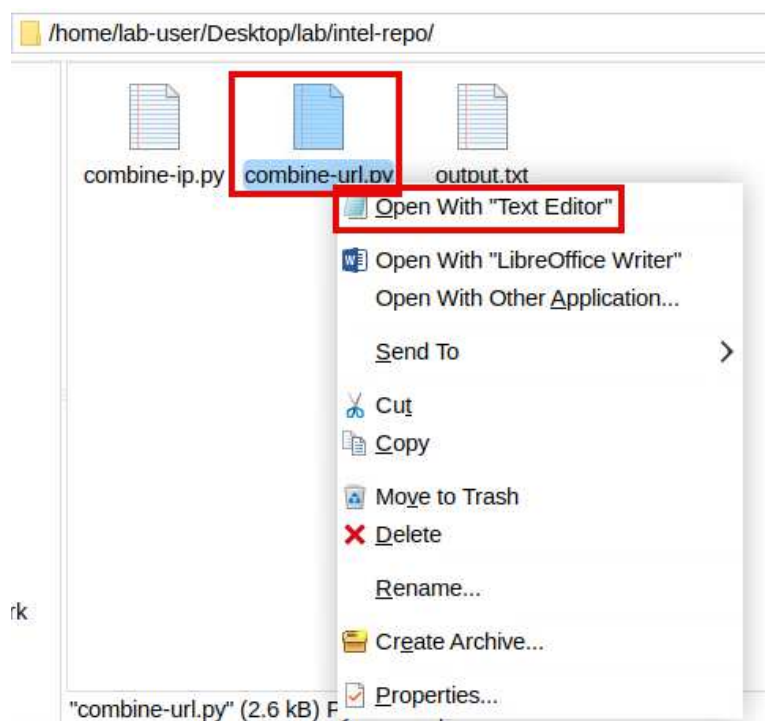


## 1.2 Examine and Run the Domain Blocking List Intelligence Feed Script

1. While on the *Client*, open the **lab** folder on the Desktop. Then, navigate to the **intel-repo** folder.

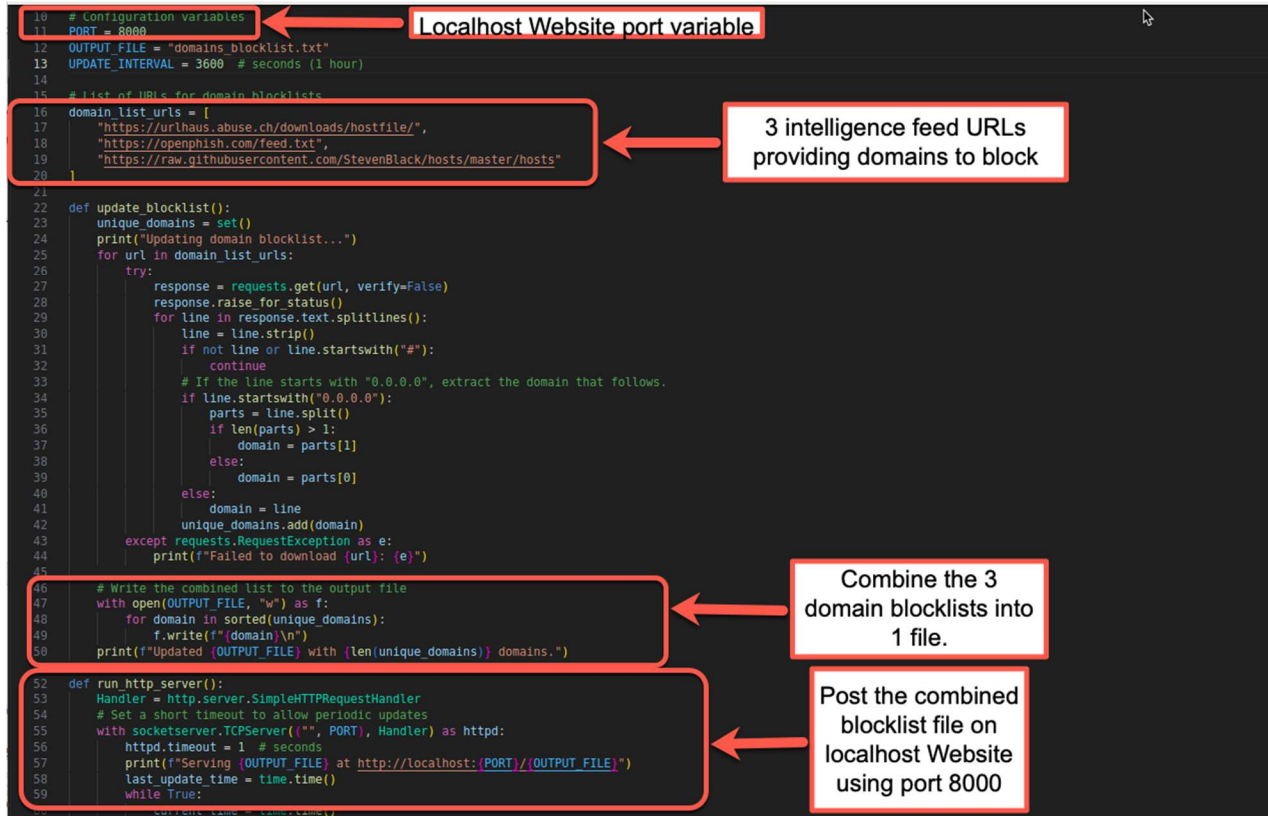


2. Right-click the **combine-url.py** and open it with the text editor.





- Examine the *combine-url.py* python script using the screenshot below as your guide. Note that the format for this domain name blocklist script is almost identical to the IP blocklist script. The main difference is that this script will post the domain blocklist on a localhost website using port 8000 instead of port 8080.



```

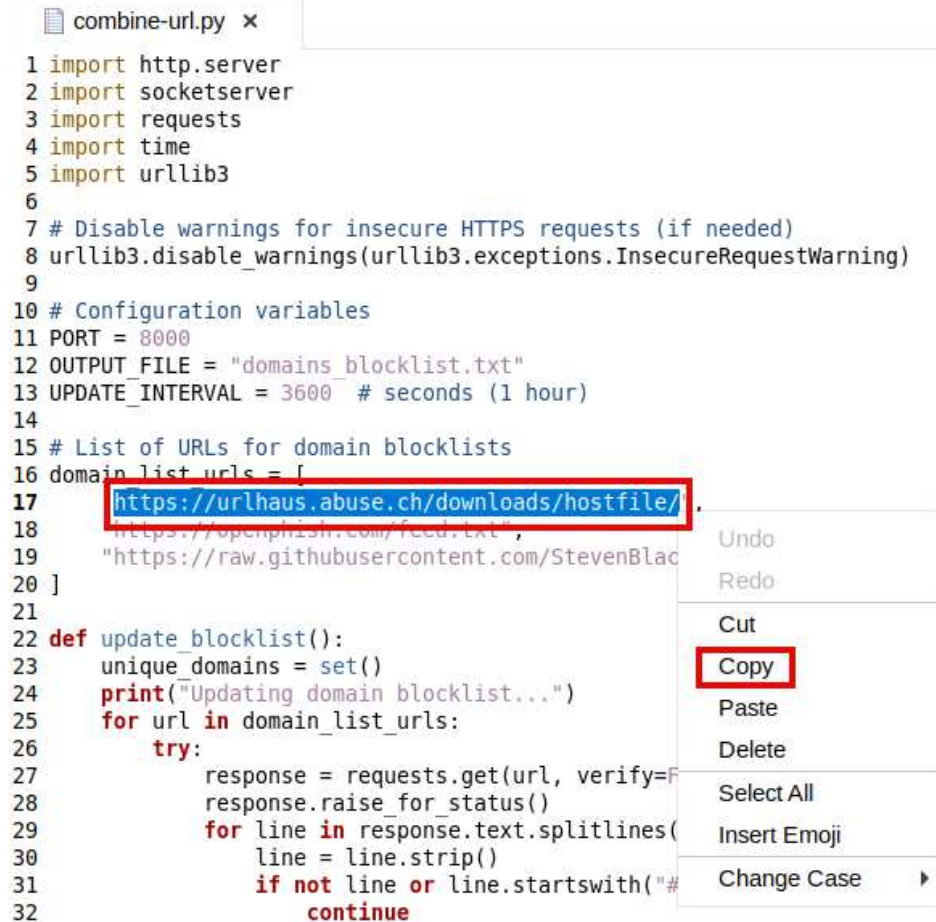
10 # Configuration variables
11 PORT = 8000
12 OUTPUT_FILE = "domains_blocklist.txt"
13 UPDATE_INTERVAL = 3600 # seconds (1 hour)
14
15 # List of URLs for domain blocklists
16 domain_list_urls = [
17     "https://urlhaus.abuse.ch/downloads/hostfile/",
18     "https://openphish.com/feed.txt",
19     "https://raw.githubusercontent.com/StevenBlack/hosts/master/hosts"
20 ]
21
22 def update_blocklist():
23     unique_domains = set()
24     print("Updating domain blocklist...")
25     for url in domain_list_urls:
26         try:
27             response = requests.get(url, verify=False)
28             response.raise_for_status()
29             for line in response.text.splitlines():
30                 line = line.strip()
31                 if not line or line.startswith("#"):
32                     continue
33                 # If the line starts with "0.0.0.0", extract the domain that follows.
34                 if line.startswith("0.0.0.0"):
35                     parts = line.split()
36                     if len(parts) > 1:
37                         domain = parts[1]
38                     else:
39                         domain = parts[0]
40                 else:
41                     domain = line
42                 unique_domains.add(domain)
43         except requests.RequestException as e:
44             print(f"Failed to download {url}: {e}")
45
46 # Write the combined list to the output file
47 with open(OUTPUT_FILE, "w") as f:
48     for domain in sorted(unique_domains):
49         f.write(f"{domain}\n")
50     print(f"Updated {OUTPUT_FILE} with {len(unique_domains)} domains.")
51
52 def run_http_server():
53     Handler = http.server.SimpleHTTPRequestHandler
54     # Set a short timeout to allow periodic updates
55     with socketserver.TCPServer(("", PORT), Handler) as httpd:
56         httpd.timeout = 1 # seconds
57         print(f"Serving {OUTPUT_FILE} at http://localhost:{PORT}/{OUTPUT_FILE}")
58         last_update_time = time.time()
59         while True:

```

Annotations:

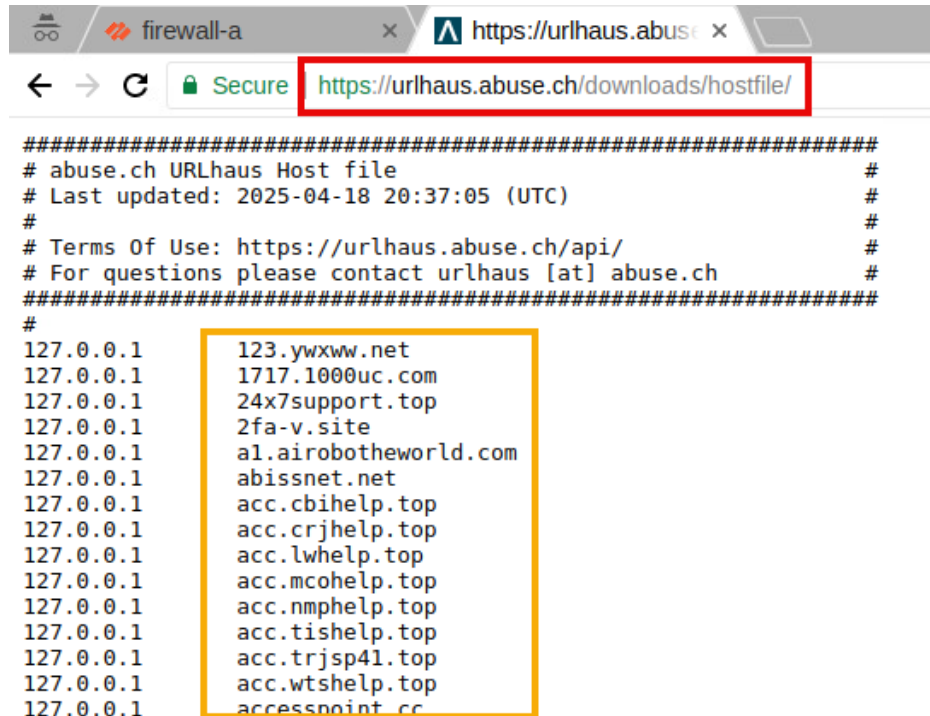
- Localhost Website port variable (points to `PORT = 8000`)
- 3 intelligence feed URLs providing domains to block (points to `domain_list_urls`)
- Combine the 3 domain blocklists into 1 file. (points to the file writing section)
- Post the combined blocklist file on localhost Website using port 8000 (points to the `run_http_server` function)

4. Copy the first blocklist URL listed in line 17,  
**<https://urlhaus.abuse.ch/downloads/hostfile/>**.



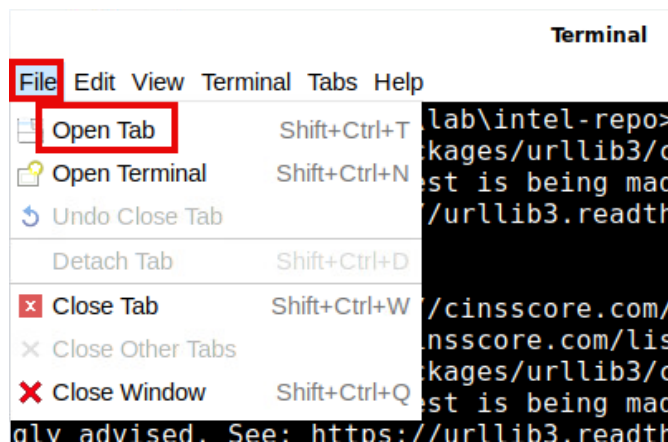
```
combine-url.py x
1 import http.server
2 import socketserver
3 import requests
4 import time
5 import urllib3
6
7 # Disable warnings for insecure HTTPS requests (if needed)
8 urllib3.disable_warnings(urllib3.exceptions.InsecureRequestWarning)
9
10 # Configuration variables
11 PORT = 8000
12 OUTPUT_FILE = "domains_blocklist.txt"
13 UPDATE_INTERVAL = 3600 # seconds (1 hour)
14
15 # List of URLs for domain blocklists
16 domain_list_urls = [
17     "https://urlhaus.abuse.ch/downloads/hostfile/",
18     "https://openphish.com/feed.txt",
19     "https://raw.githubusercontent.com/StevenBlack/hosts/master/hosts"
20 ]
21
22 def update_blocklist():
23     unique_domains = set()
24     print("Updating domain blocklist...")
25     for url in domain_list_urls:
26         try:
27             response = requests.get(url, verify=False)
28             response.raise_for_status()
29             for line in response.text.splitlines():
30                 line = line.strip()
31                 if not line or line.startswith("#"):
32                     continue
```

5. Navigate to the **Chromium** web browser, paste the URL into a new open tab, and access the website with a list of bad domains. Note that this blocklist contains domain names.



After you have completed your review, close the *combine-url.py* text file and be sure not to save any accidental changes you may have made to this file.

11. Navigate to your previously opened terminal and select **File > Open Tab**.

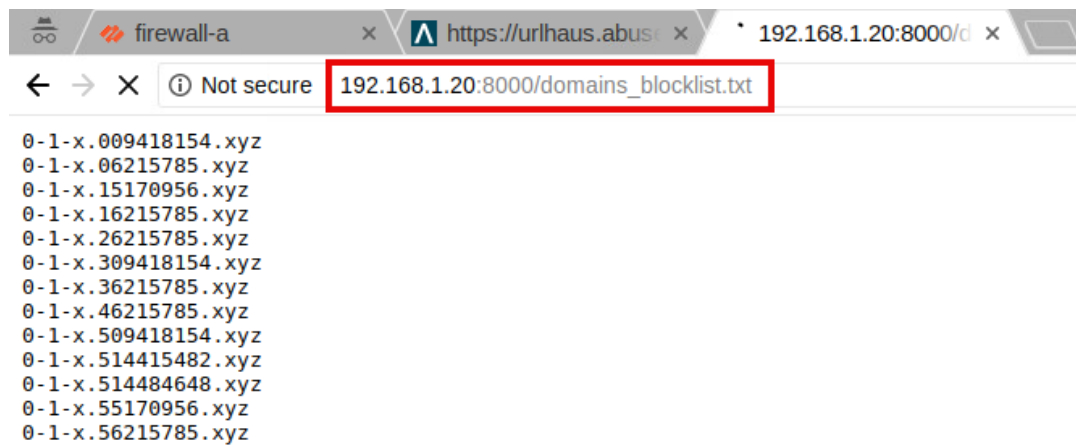


- Run the **combine-url.py** python script. After entering the command, press the **Enter** key once more to return to the prompt. Keep the terminal window open and uninterrupted.

```
C:\home\lab-user\Desktop\lab\intel-repo> python3 combine-url.py &
```

```
C:\home\lab-user\Desktop\lab\intel-repo> python3 combine-url.py &
[1] 20203
C:\home\lab-user\Desktop\lab\intel-repo> Updating domain blocklist...
Updated domains_blocklist.txt with 144655 domains.
Serving domains_blocklist.txt at http://localhost:8000/domains_blocklist.txt
C:\home\lab-user\Desktop\lab\intel-repo> █
```

- Navigate to the **Chromium** web browser, open a new tab, and enter the following URL to view the consolidated domain name blocklist:  
[http://192.168.1.20:8000/domains\\_blocklist.txt](http://192.168.1.20:8000/domains_blocklist.txt).



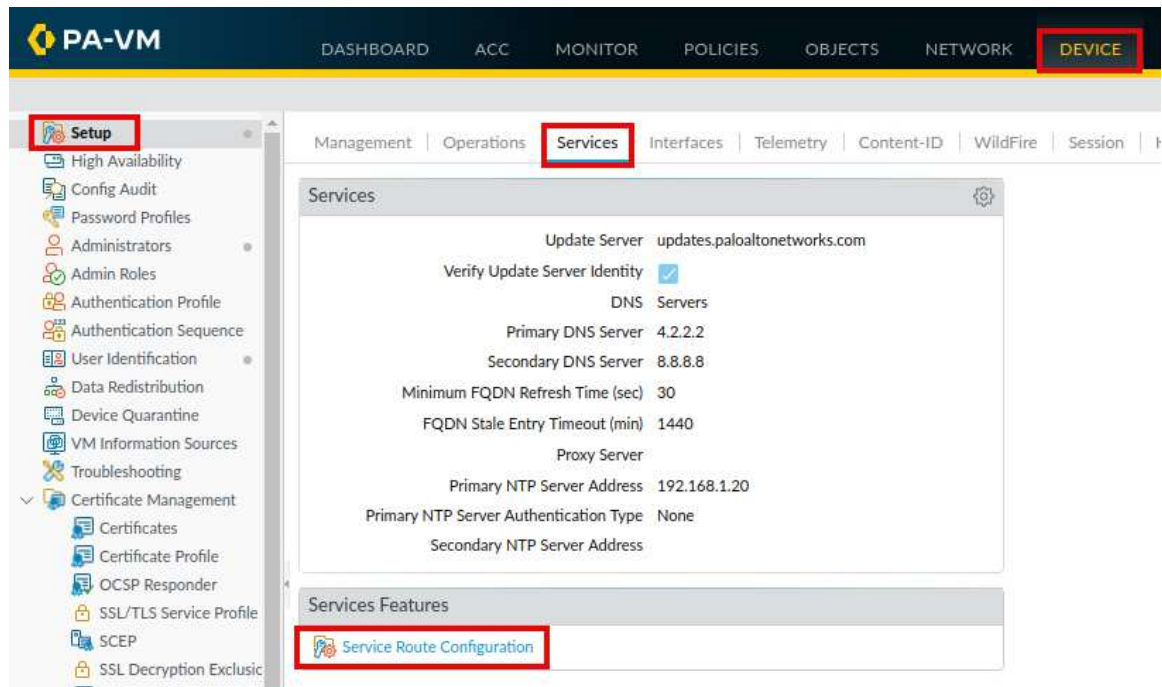
### 1.3 Configure an External Dynamic List (EDL) on the Firewall Appliance Using the Python Script Blocklists

In this section, you will configure an *External Dynamic List (EDL)* on the firewall to use the python-scripted blocklists and then use the EDL in a security policy rule to block incoming traffic.

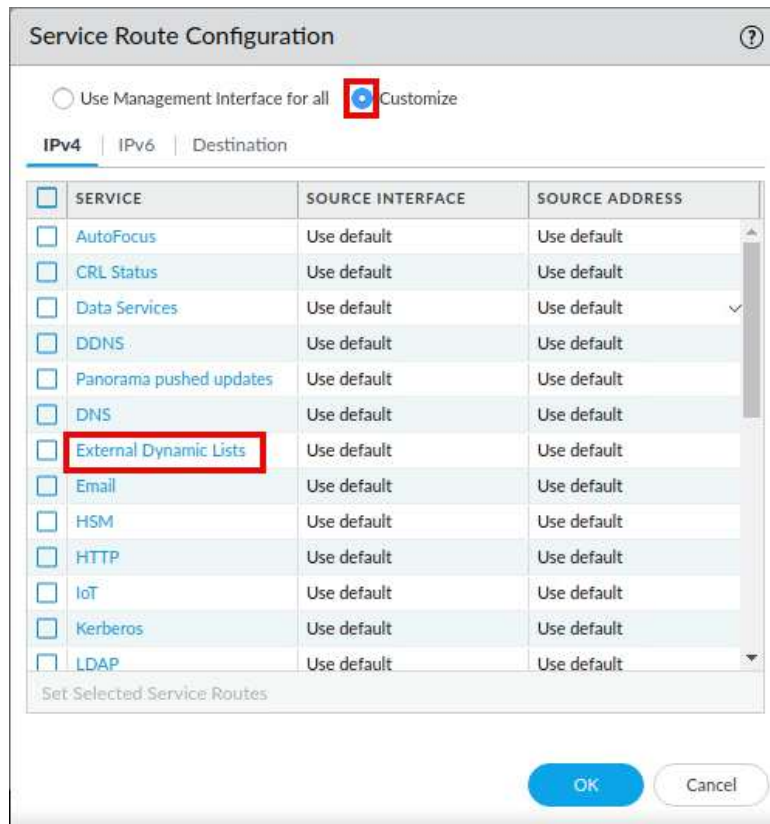
- In the *Chromium* web browser, click on the **firewall-a** tab to return to the firewall web interface..



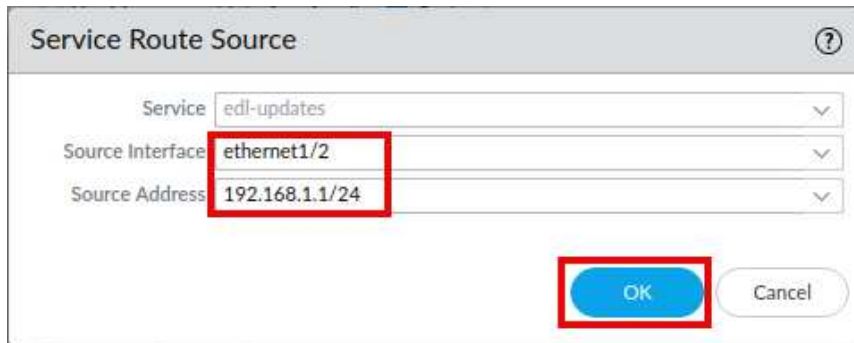
2. Navigate to **Device > Setup > Services** and select **Service Route Configuration**.



3. In the *Service Route Configuration* dialog box, select **Customize**. Click on **External Dynamic Lists**.

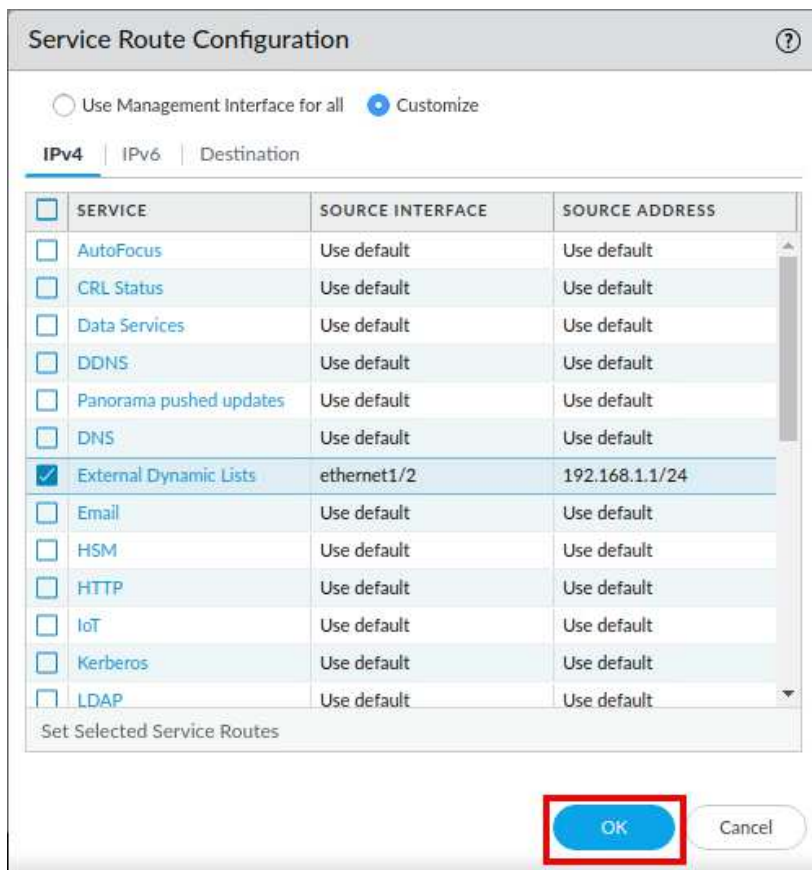


4. In the *Service Route Source* dialog box, select **ethernet1/2** for the *Source Interface* and verify **192.168.1.1/24** for the *Source Address*. Click **OK**.



The *Service Route Source* dialog box is shown. It has a title bar with a question mark icon. Inside, there are three dropdown menus: *Service* (set to 'edl-updates'), *Source Interface* (set to 'ethernet1/2'), and *Source Address* (set to '192.168.1.1/24'). The 'ethernet1/2' and '192.168.1.1/24' values are highlighted with red boxes. At the bottom right, there are two buttons: 'OK' (highlighted with a red box) and 'Cancel'.

5. In the *Service Route Configuration* window, click **OK**.



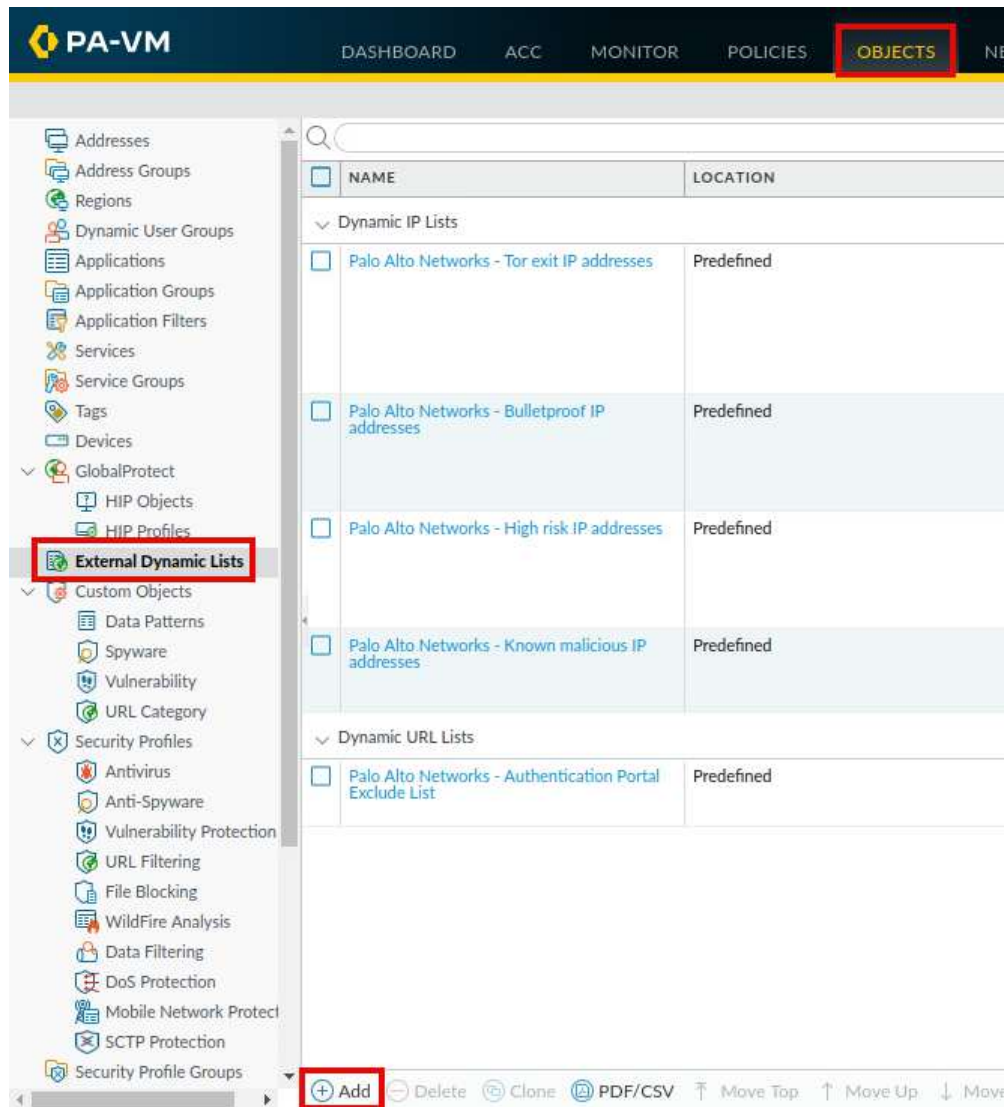
The *Service Route Configuration* window is shown. It has a title bar with a question mark icon. Below the title bar, there are two radio buttons: 'Use Management Interface for all' (unselected) and 'Customize' (selected). Below the radio buttons, there are three tabs: 'IPv4' (selected), 'IPv6', and 'Destination'. Below the tabs, there is a table with the following columns: *SERVICE*, *SOURCE INTERFACE*, and *SOURCE ADDRESS*. The table contains the following rows:

SERVICE	SOURCE INTERFACE	SOURCE ADDRESS
<input type="checkbox"/> AutoFocus	Use default	Use default
<input type="checkbox"/> CRL Status	Use default	Use default
<input type="checkbox"/> Data Services	Use default	Use default
<input type="checkbox"/> DDNS	Use default	Use default
<input type="checkbox"/> Panorama pushed updates	Use default	Use default
<input type="checkbox"/> DNS	Use default	Use default
<input checked="" type="checkbox"/> External Dynamic Lists	ethernet1/2	192.168.1.1/24
<input type="checkbox"/> Email	Use default	Use default
<input type="checkbox"/> HSM	Use default	Use default
<input type="checkbox"/> HTTP	Use default	Use default
<input type="checkbox"/> IoT	Use default	Use default
<input type="checkbox"/> Kerberos	Use default	Use default
<input type="checkbox"/> LDAP	Use default	Use default

Below the table, there is a button labeled 'Set Selected Service Routes'. At the bottom right, there are two buttons: 'OK' (highlighted with a red box) and 'Cancel'.

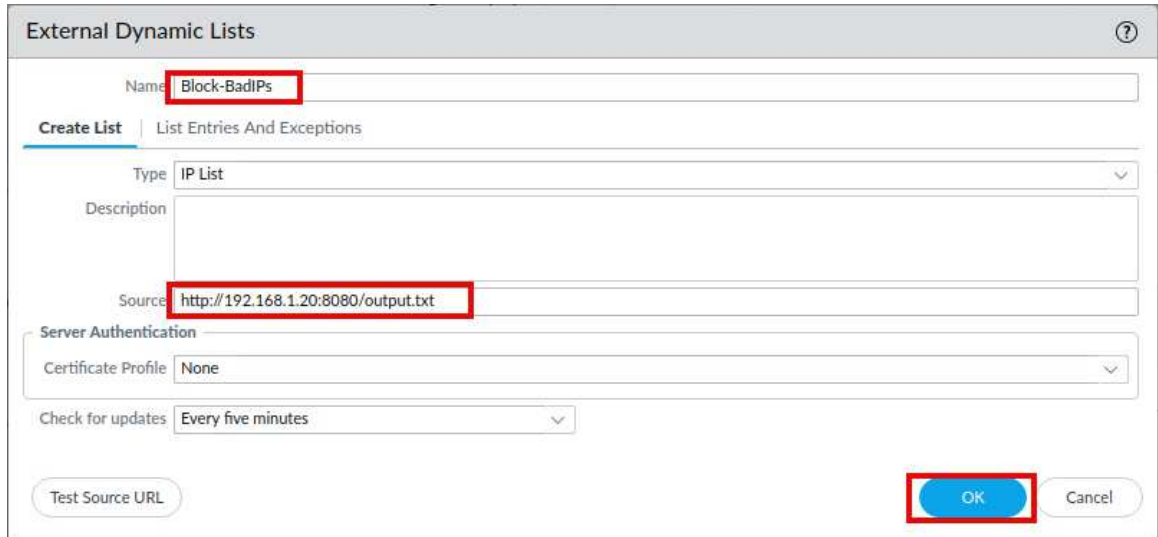


6. Navigate to **Objects > External Dynamic Lists** and click **Add**.



7. If a notice appears regarding appending ending tokens to entries, select **Do not show this message again** and click **Cancel** to continue.

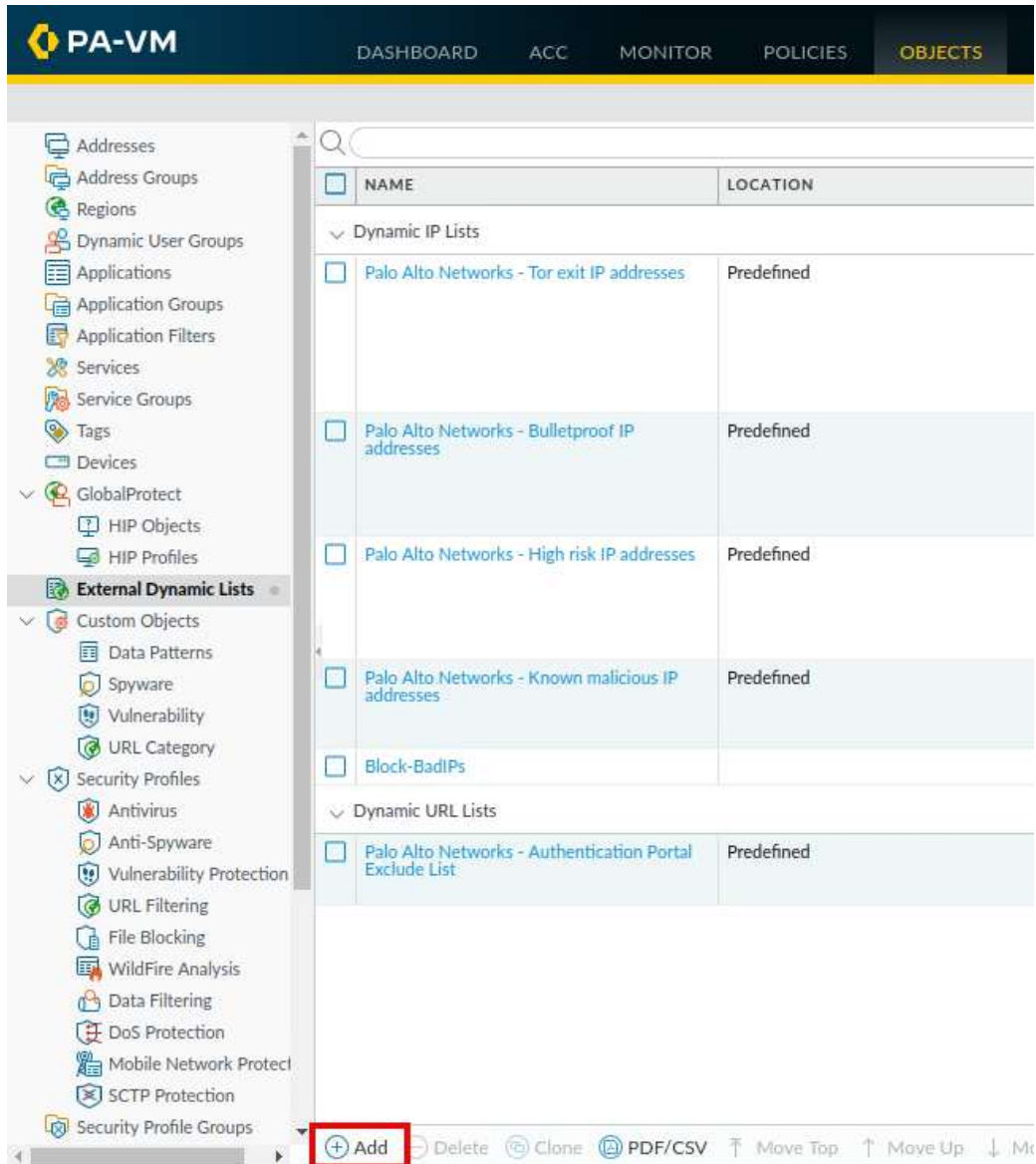
8. In the *External Dynamic Lists* window, type Block-BadIPs in the *Name* field, and enter `http://192.168.1.20:8080/output.txt` for the *Source*. Click **OK**.



The screenshot shows the 'External Dynamic Lists' window. The 'Name' field contains 'Block-BadIPs'. The 'Type' dropdown is set to 'IP List'. The 'Source' field contains 'http://192.168.1.20:8080/output.txt'. The 'Server Authentication' section shows 'Certificate Profile' set to 'None'. The 'Check for updates' dropdown is set to 'Every five minutes'. At the bottom, there is a 'Test Source URL' button, a blue 'OK' button, and a 'Cancel' button. The 'OK' button is highlighted with a red box.



9. On the *External Dynamic Lists* page, click **Add** again.

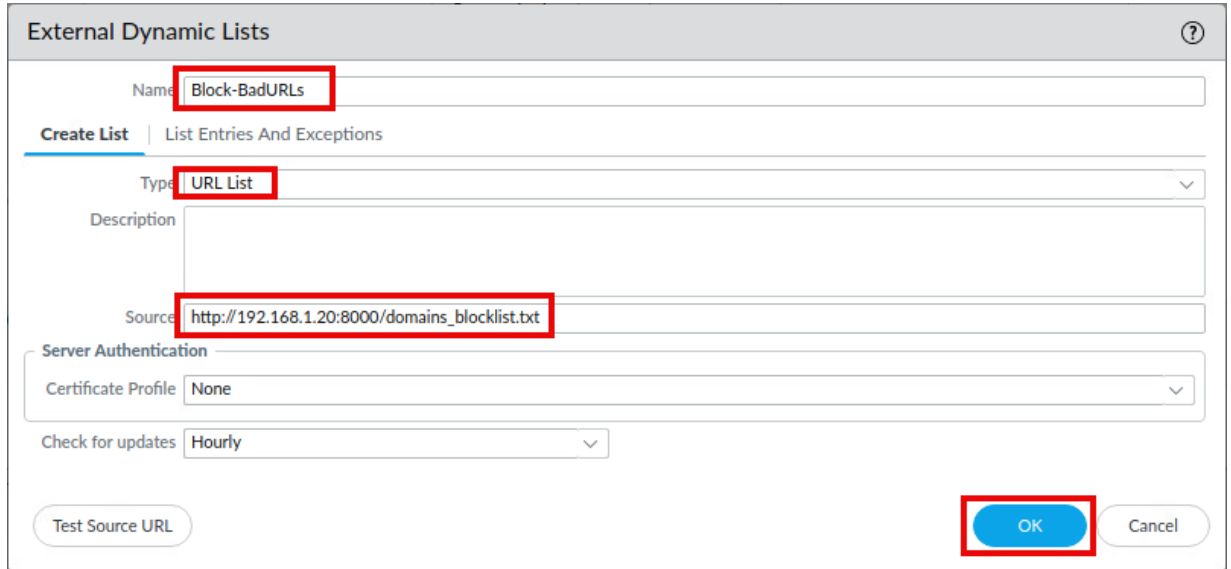


The screenshot shows the PA-VM web interface. The top navigation bar includes DASHBOARD, ACC, MONITOR, POLICIES, and OBJECTS. The left sidebar lists various object categories, with 'External Dynamic Lists' selected. The main content area displays a table of predefined dynamic lists. At the bottom, a red box highlights the '+ Add' button.

NAME	LOCATION
Dynamic IP Lists	
<input type="checkbox"/> Palo Alto Networks - Tor exit IP addresses	Predefined
<input type="checkbox"/> Palo Alto Networks - Bulletproof IP addresses	Predefined
<input type="checkbox"/> Palo Alto Networks - High risk IP addresses	Predefined
<input type="checkbox"/> Palo Alto Networks - Known malicious IP addresses	Predefined
<input type="checkbox"/> Block-BadIPs	
Dynamic URL Lists	
<input type="checkbox"/> Palo Alto Networks - Authentication Portal Exclude List	Predefined

+ Add Delete Clone PDF/CSV Move Top Move Up Move Down

10. In the *External Dynamic Lists* window, type **Block-BadURLs** in the *Name* field, select **URL List** from the *Type* drop-down list, and enter `http://192.168.1.20:8000/domains_blocklist.txt` for the *Source*. Click **OK**.



**External Dynamic Lists**

Name: **Block-BadURLs**

Create List | List Entries And Exceptions

Type: **URL List**

Description:

Source: **http://192.168.1.20:8000/domains\_blocklist.txt**

Server Authentication

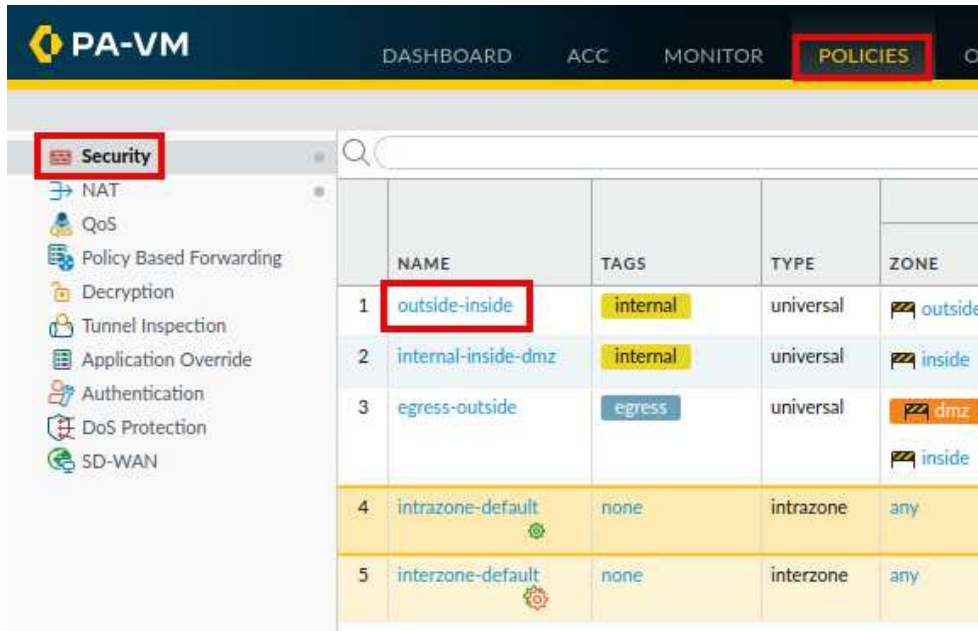
Certificate Profile: **None**

Check for updates: **Hourly**

Test Source URL

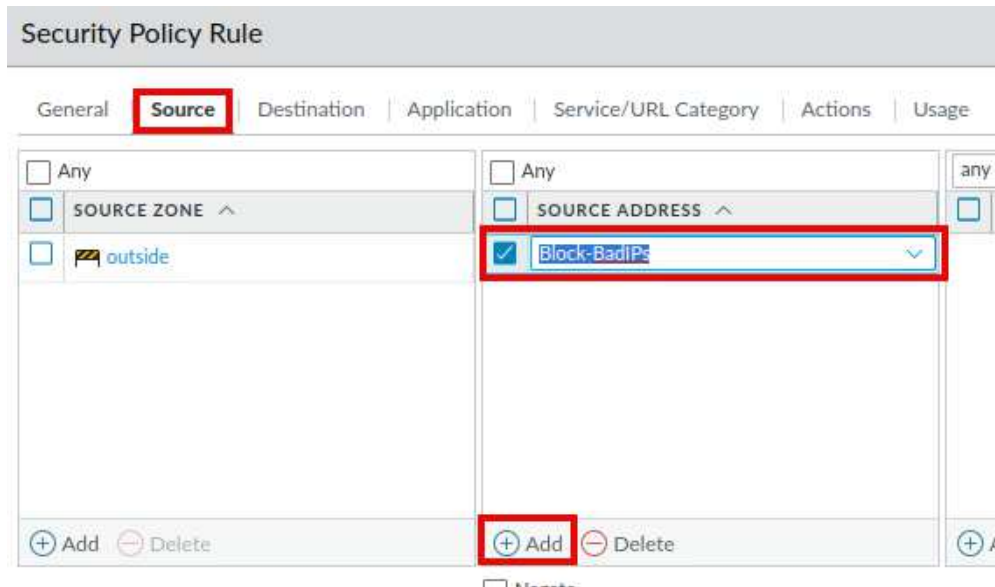
**OK** Cancel

11. Navigate to **Policies > Security** and select the **outside-inside** policy.

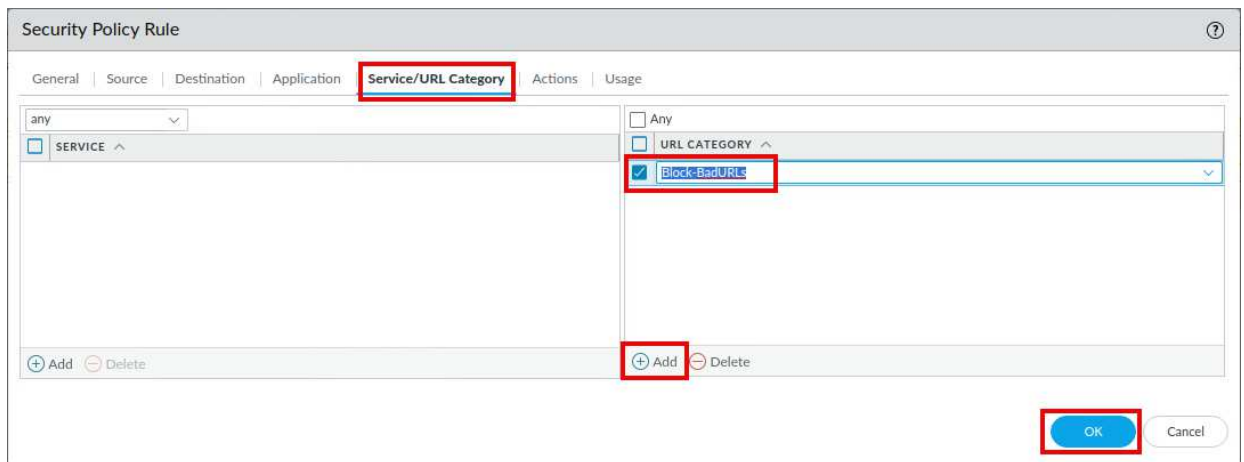


	NAME	TAGS	TYPE	ZONE
1	<b>outside-inside</b>	internal	universal	outside
2	internal-inside-dmz	internal	universal	inside
3	egress-outside	egress	universal	dmz
4	intrazone-default	none	intrazone	any
5	interzone-default	none	interzone	any

12. In the *Security Policy Rule* window, select the **Source** tab. In the *Source Address* box, click **Add** and select **Block-BadIPs** from the dropdown menu.



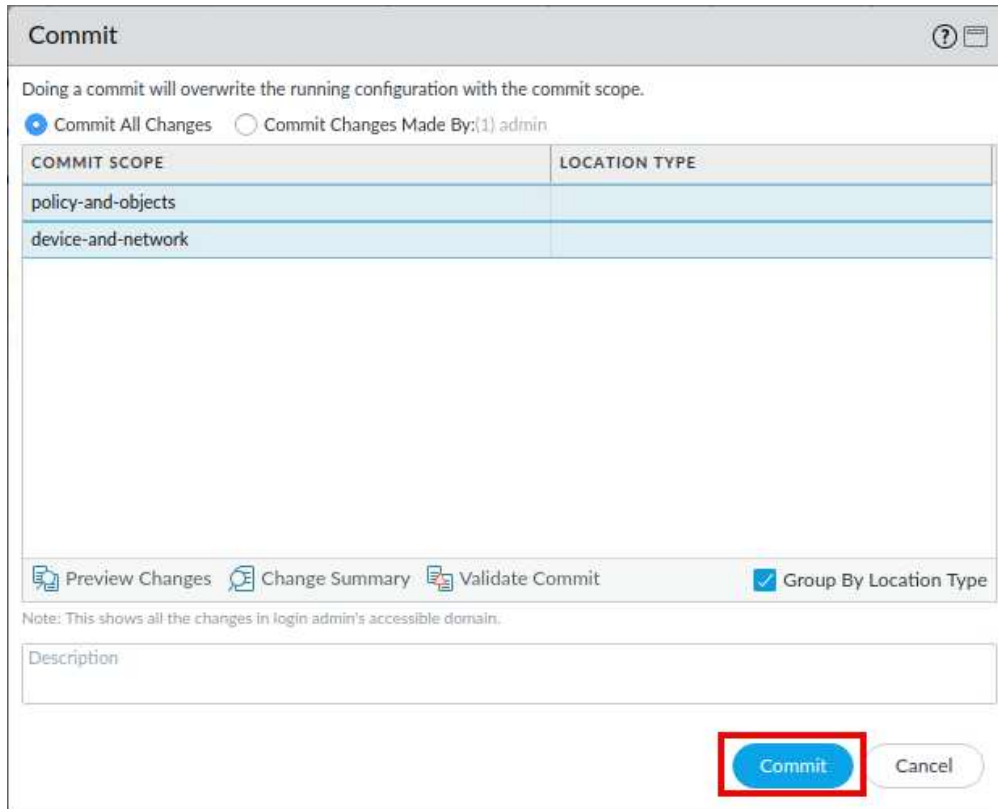
13. In the *Security Policy Rule* window, select the **Service/URL Category** tab. In the *URL Category* box, click **Add** and select **Block-BadURLs** from the dropdown menu. Click **OK** to save changes and to close the window.



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



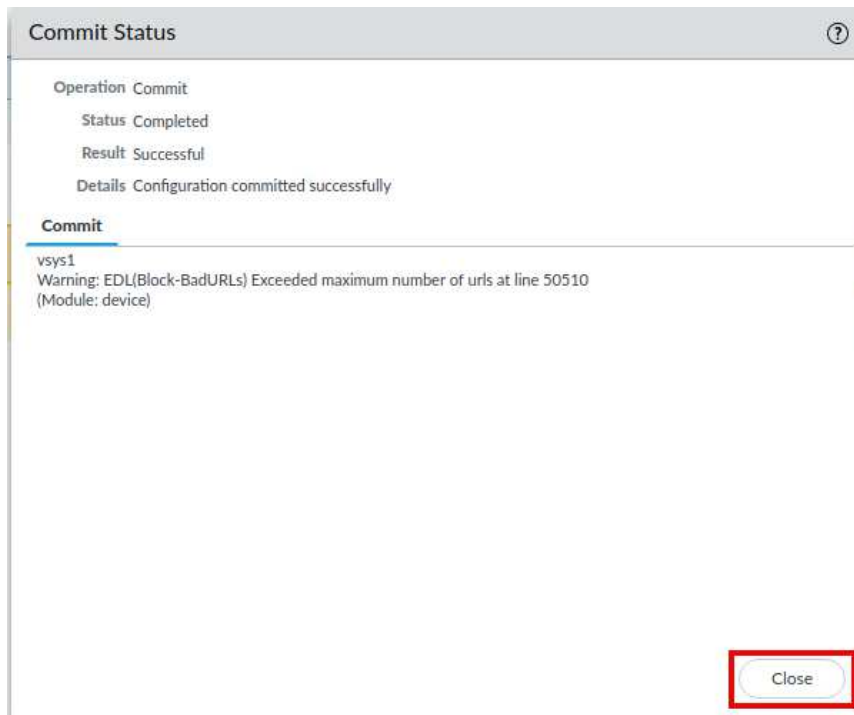
15. In the *Commit* window, click **Commit**.



The **Commit** window displays a confirmation message: "Doing a commit will overwrite the running configuration with the commit scope." Below this, there are two radio buttons: "Commit All Changes" (selected) and "Commit Changes Made By: {1} admin". A table with two columns, "COMMIT SCOPE" and "LOCATION TYPE", lists "policy-and-objects" and "device-and-network". At the bottom, there are icons for "Preview Changes", "Change Summary", and "Validate Commit", along with a checked "Group By Location Type" checkbox. A note states: "Note: This shows all the changes in login admin's accessible domain." A text input field for "Description" is present. The **Commit** button is highlighted with a red rectangle.

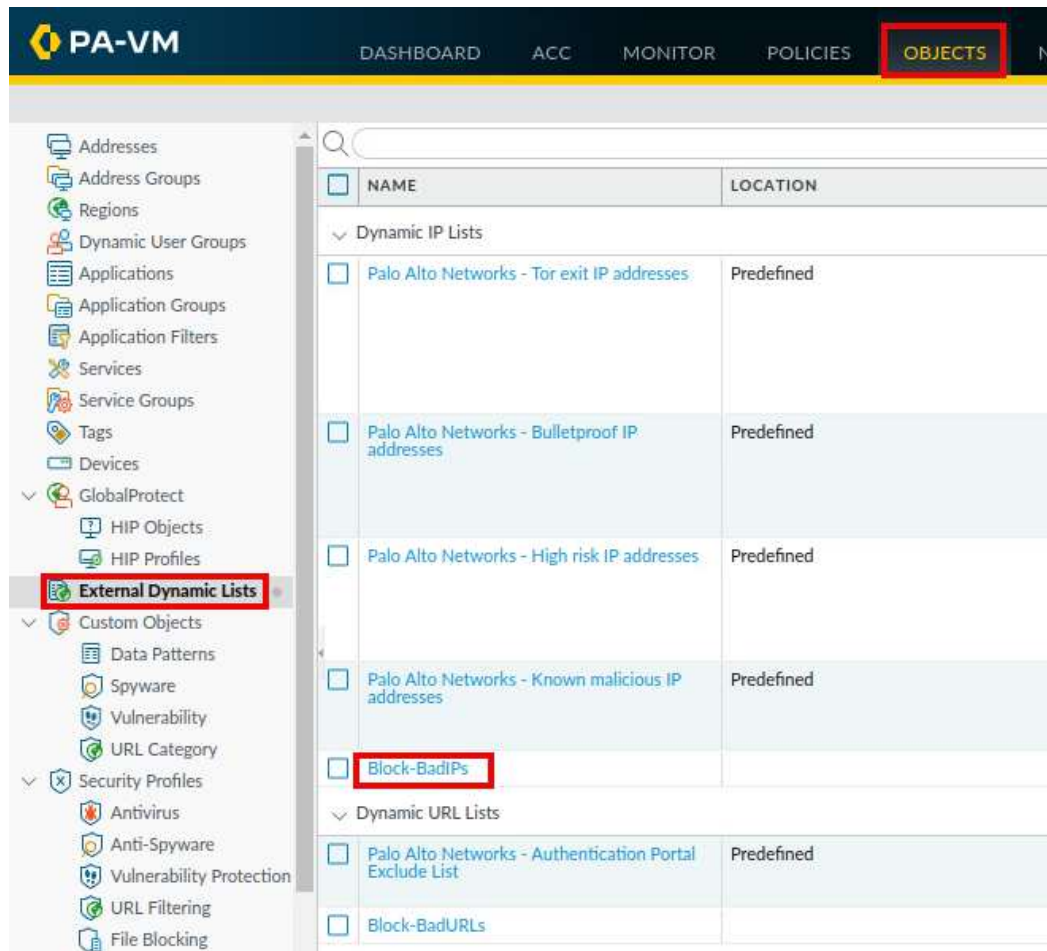
COMMIT SCOPE	LOCATION TYPE
policy-and-objects	
device-and-network	

16. Once the commit finishes, click **Close**.

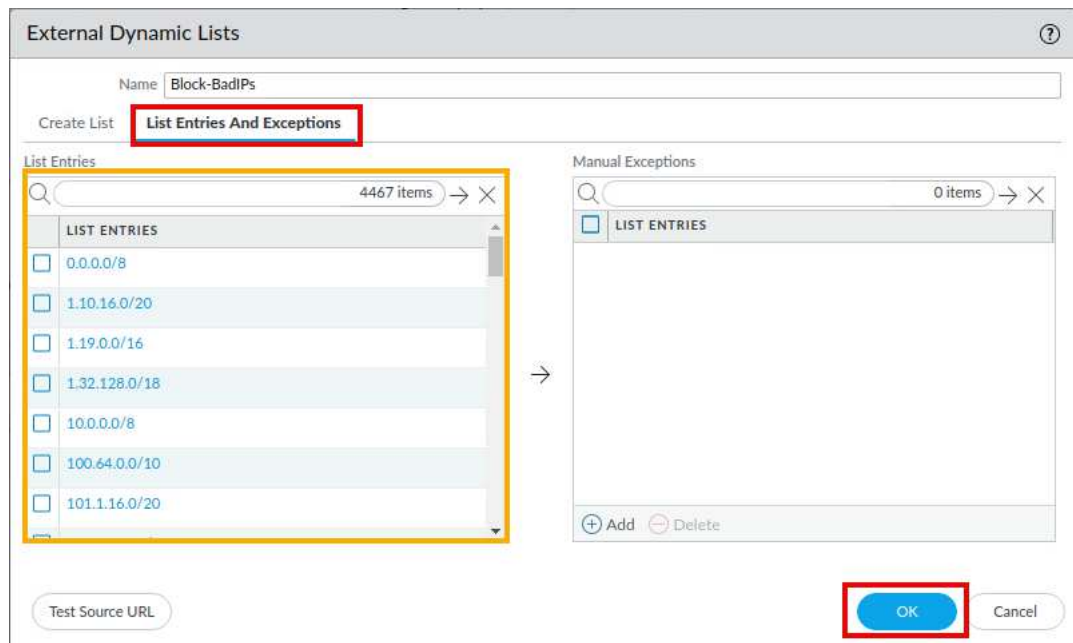


The **Commit Status** window shows the results of the commit operation. It displays: "Operation: Commit", "Status: Completed", "Result: Successful", and "Details: Configuration committed successfully". Below this, a section titled **Commit** shows a warning: "Warning: EDL(Block-BadURLs) Exceeded maximum number of urls at line 50510 (Module: device)". The **Close** button is highlighted with a red rectangle.

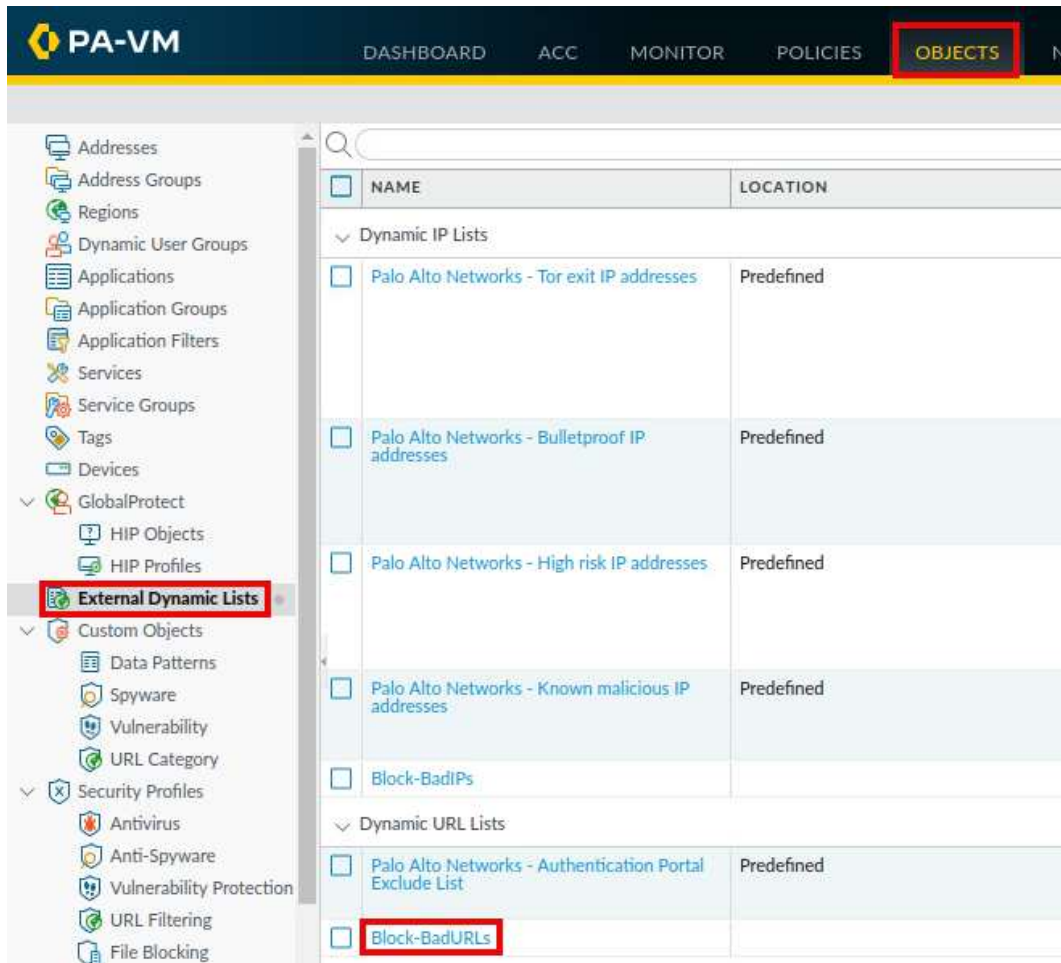
17. Navigate to **Objects > External Dynamic Lists** and click the **Block-BadIPs** list.



18. In the *External Dynamic Lists* window, select **List Entries and Exceptions** and observe the *IP block list indicators* feeding the *Firewall*. Click **OK**.



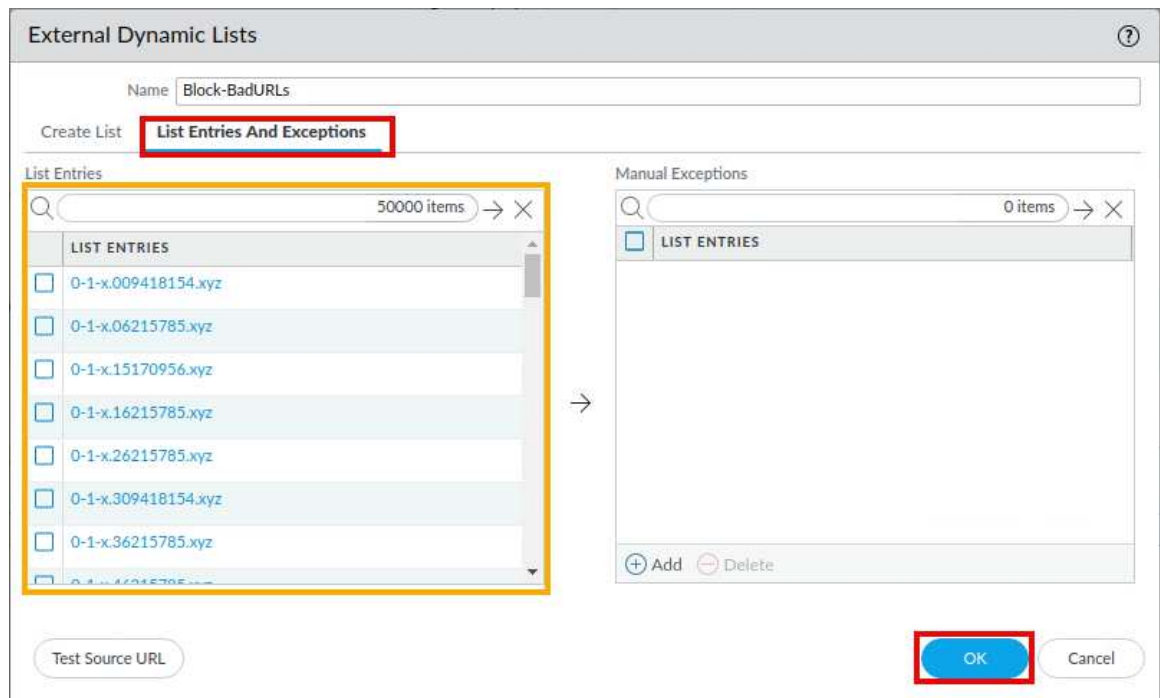
19. Navigate to **Objects > External Dynamic Lists** and click the **Block-BadURLs** list.



The screenshot shows the PA-VM interface with the **OBJECTS** tab selected in the top navigation bar. The left sidebar contains a tree view of objects, with **External Dynamic Lists** highlighted. The main content area displays a table of dynamic lists.

<input type="checkbox"/>	NAME	LOCATION
Dynamic IP Lists		
<input type="checkbox"/>	Palo Alto Networks - Tor exit IP addresses	Predefined
<input type="checkbox"/>	Palo Alto Networks - Bulletproof IP addresses	Predefined
<input type="checkbox"/>	Palo Alto Networks - High risk IP addresses	Predefined
<input type="checkbox"/>	Palo Alto Networks - Known malicious IP addresses	Predefined
<input type="checkbox"/>	Block-BadIPs	
Dynamic URL Lists		
<input type="checkbox"/>	Palo Alto Networks - Authentication Portal Exclude List	Predefined
<input type="checkbox"/>	Block-BadURLs	

20. In the *External Dynamic Lists* window, select **List Entries and Exceptions** and observe the *URL block list indicators* feeding the *Firewall*. Click **OK**.



21. The lab is now complete; you may end your reservation.