

# **PALO ALTO NETWORKS - EDU-210**

Lab 8: WildFire

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#### Introduction

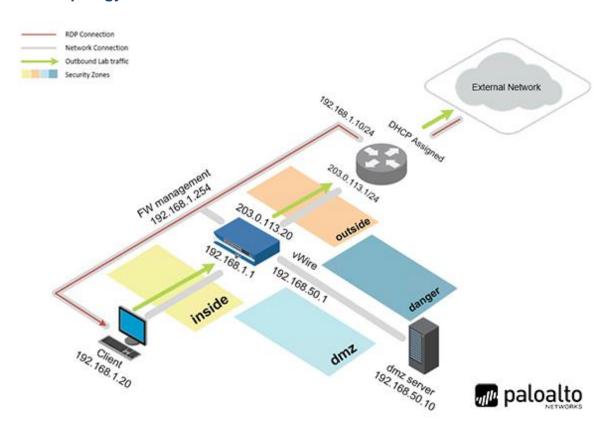
Today about 45% of all web sites are encrypted using SSL and about 90% of the applications used within an organization are web-based ssl or ssl enabled. To correctly identify the application or inspect the traffic for threats we first need to be able to decrypt that information. In this exercise you will begin testing ssl decryption, in order to evaluate how to implement decryption within your environment.

### **Objectives**

- Create Security zones two different ways and observe the time saved.
- Create Interface Management Profiles to allow ping and responses pages.
- Configure Ethernet interfaces to observe DHCP client options and static configuration.
- Create a virtual router and attach configured Ethernet interfaces.
- Test connectivity with automatic default route configuration and static configuration.



# **Lab Topology**





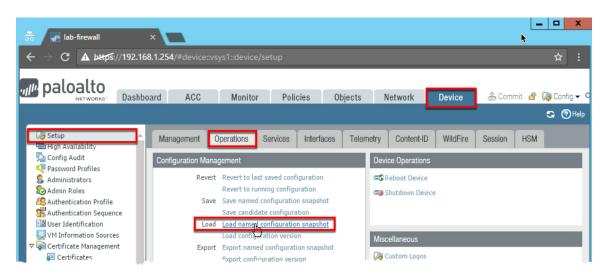
# **Lab Settings**

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 – Windows 2012 R2	192.168.1.20	lab-user	Pal0Alt0
Firewall – PA-VM	192.168.1.254	admin	admin



- 8 Lab: WildFire
- 8.0 Load Lab Configuration
  - 1. In the WebUI select **Device > Setup > Operations**.
  - 2. Click Load named configuration snapshot:



3. Select edu-210-lab-07 and click OK.

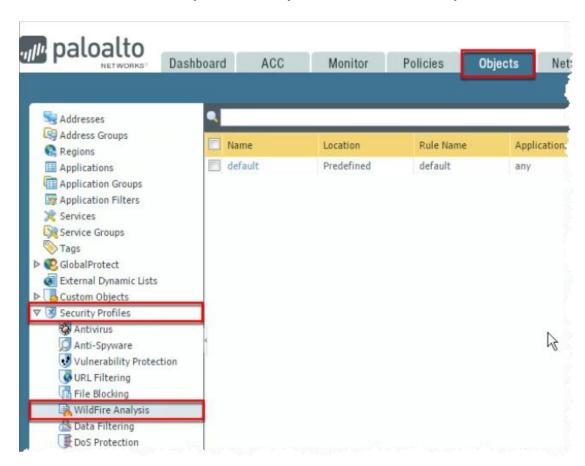


- 4. Click Close.
- 5. Commit all changes.

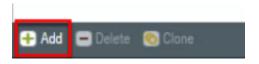


#### 8.1 Create a WildFire Analysis Profile

1. In the WebUI select **Objects > Security Profiles > WildFire Analysis**.



2. Click **Add** to open the WildFire Analysis Profile configuration window.



3. Configure the following:

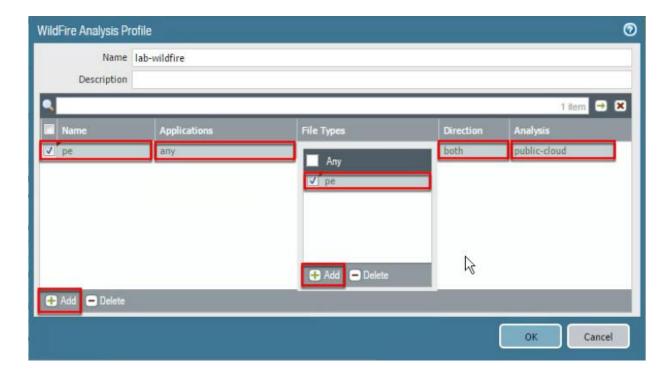
Parameter	Value
Name	lab-wildfire





4. Click **Add** and configure the following:

Parameter	Value
Name	pe
Applications	any
File Types	pe
Direction	both
Analysis	public-cloud



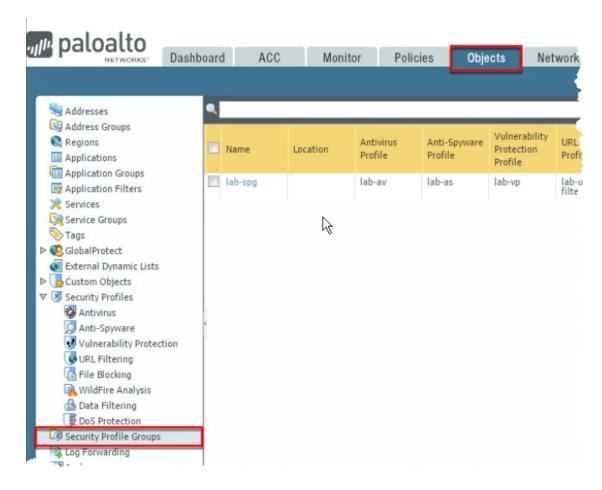
Note: The file type pe includes both .exe and .dll file types.

5. Click **OK** to close the WildFire Analysis Profile configuration window.

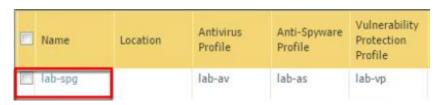
# 8.2 Modify Security Profile Group

1. In the WebUI select **Objects > Security Profile Groups**.





2. Click to open the **lab-spg** Security Profile Group.



3. Add the newly created lab-wildfire WildFire Analysis Profile:





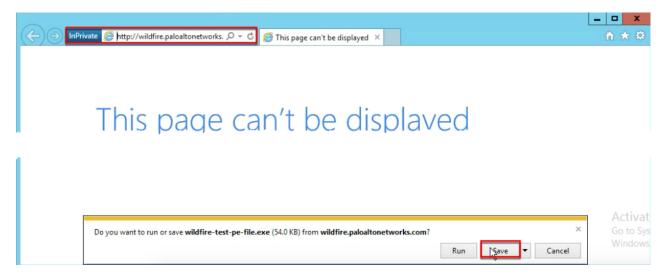
- 4. Click OK.
- 5. **Commit** all changes.



#### 8.3 Test the WildFire Analysis Profile

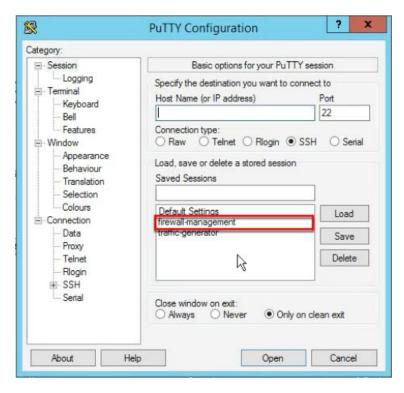
- Open a new browser in private/incognito mode and browse to http://wildfire.paloaltonetworks.com/publicapi/test/pe.
   This site generates an attack file with a unique signature, which simulates a zero-day attack.
- 2. Without opening the file, save it to the Downloads directory.





3. To verify that the file was uploaded to the public WildFire cloud, open **PuTTY** and double-click firewall-management to log in to the firewall with admin/admin.







```
login as: admin
Using keyboard-interactive authentication.
Password:
Last login: Fri Aug 18 20:57:21 2017 from 192.168.1.20
Number of failed attempts since last successful login: 0
admin@lab-firewall>
```

4. When you are logged in, enter the debug wildfire upload-log show command to display the output log: 0, filename: wildfire-test-pe-file.exe processed.... This output verifies that the file was uploaded to the WildFire public cloud. The message might take a minute or two to appear:

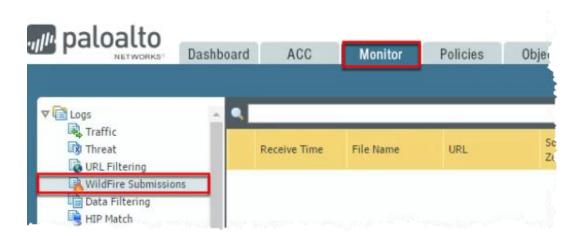
```
Upload Log disk log rotation size: 2.000 MB.

Public Cloud upload logs:

log: 0, filename: wildfire-test-pe-file.exe
processed 149 seconds ago, action: upload success
vsys_id: 1, session_id: 1184, transaction_id: 1
file_len: 55296, flag: 0x801c, file_type: per
threat id: 52020, user_id: 0, app_id: 109
from 192.168.1.20/9498 to 52.20.176.145/80
SHA256: 9244f592ec0eca79bcdle4f75090c2ccc91604fe1773d5c0fa99f675d01f5ccc
Private Cloud upload logs:

admin@lab-firewall>
```

5. Select **Monitor > Logs > WildFire Submissions**. After five minutes have passed, find the entry for wildfire-test-pe-file.exe that has been submitted to WildFire and identified as malicious.

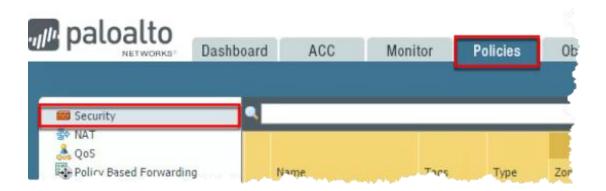




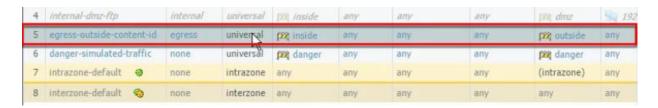
- 6. Click the **magnifying glass** icon next to the entry to see the Detailed Log View of the WildFire entry:
- 7. On the Log Info tab, check the information within the General, Details, and Destination panels. Then look at the information in the WildFire Analysis Report tab.
- 8. Log out and close the **PuTTY** session.

#### 8.4 Disable Security Policy Rule

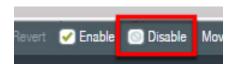
1. Select Policies > Security.



2. Select but do not open egress-outside-content-id.

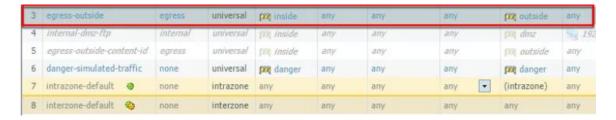


3. Click Disable.



4. Select but do not open egress-outside.





5. Click **Enable**.



6. Commit all changes.



**Stop**. This is the end of the WildFire lab.