



# **PALO ALTO NETWORKS – EDU 210**

# **Lab 1: Connect to the Management Network**

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#### Introduction

Your organization has just received a new Palo Alto Networks firewall, and you have been tasked with deploying it. The first steps will be to connect to the firewall's management interface address and configure basic settings to provide the firewall with network access.

In this lab, you will connect to the Palo Alto Networks firewall management interface and configure basic settings to provide the firewall with network access.

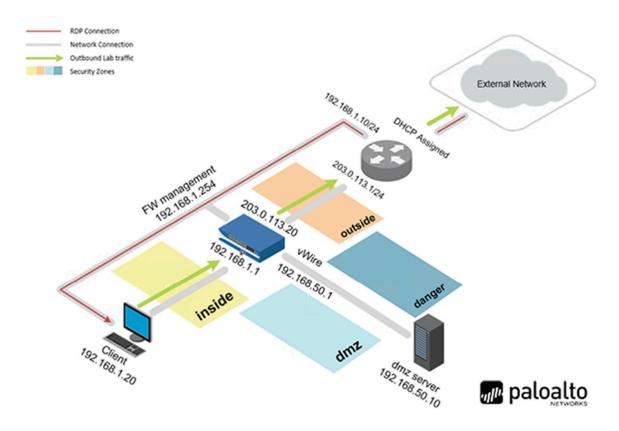
## **Objective**

In this lab, you will perform the following tasks:

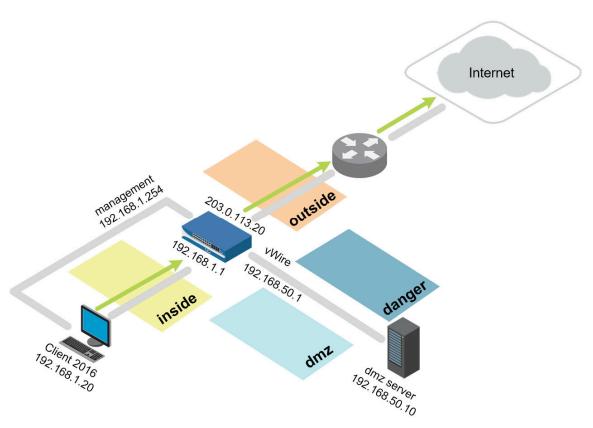
- Connect to the firewall web interface
- Load a starting lab configuration
- Set DNS servers for the firewall
- Set NTP servers for the firewall
- Configure a login banner for the firewall
- Configure permitted IP addresses for the firewall management
- Check for new PAN-OS software



#### **Lab Topology**



# **Theoretical Lab Topology**





## **Lab Settings**

The information in the table below will be needed 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	PalØAltØ!
VRouter	192.168.1.10	root	Pal0Alt0!



### 1 Connect to the Management Network

#### 1.1 Load Lab Configuration

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

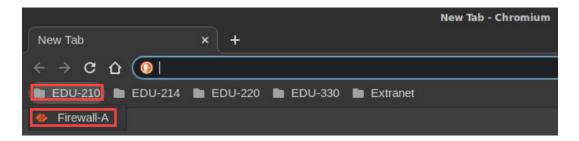
1. Click on the **Client** tab to access the Client PC.



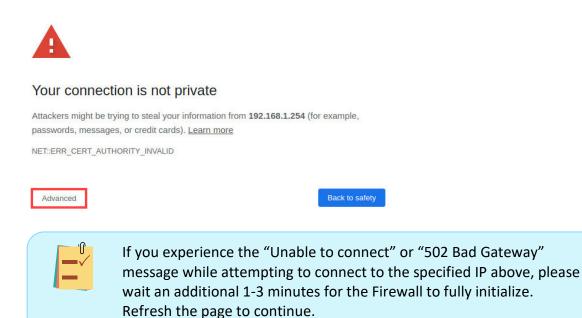
2. Double-click the **Chromium Web Browser** icon located on the desktop.



3. In the *Chromium* web browser, click on the **EDU-210** bookmark folder in the bookmarks bar and then click on **Firewall-A**.



4. You will see a "Your connection is not private" message. Next, click on the ADVANCED link.





5. Click on Proceed to 192.168.1.254 (unsafe).



## Your connection is not private

Attackers might be trying to steal your information from **192.168.1.254** (for example, passwords, messages, or credit cards). <u>Learn more</u>

NET::ERR\_CERT\_AUTHORITY\_INVALID



Back to safety

This server could not prove that it is **192.168.1.254**; its security certificate is not trusted by your computer's operating system. This may be caused by a misconfiguration or an attacker intercepting your connection.

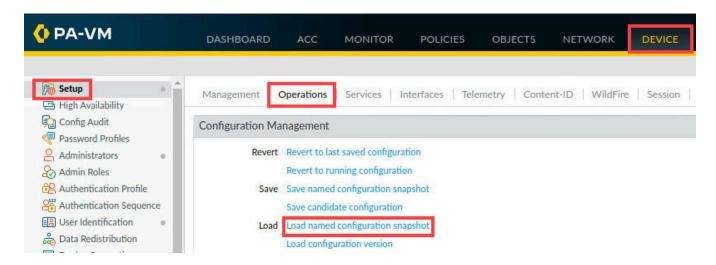
Proceed to 192.168.1.254 (unsafe)

6. Log in to the firewall web interface as username admin, password PalOAltO!.

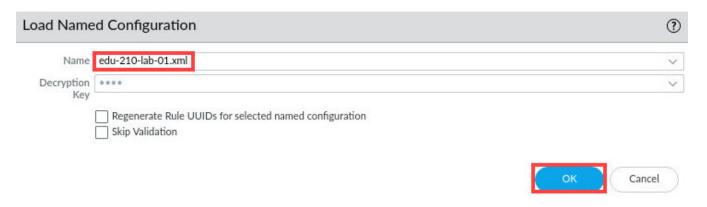




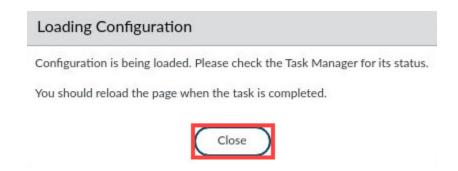
7. Navigate to **Device > Setup > Operations** in the web interface and click on **Load named configuration snapshot** underneath the *Configuration Management* section.



8. In the *Load Named Configuration* window, select **edu-210-lab-01.xml** from the *Name* dropdown box and click **OK**.



9. In the Loading Configuration window, a message will show 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.

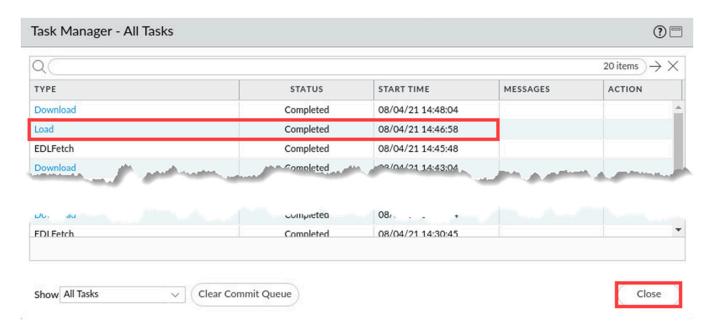


10. Click the **Tasks** icon located at the bottom-right of the web interface.





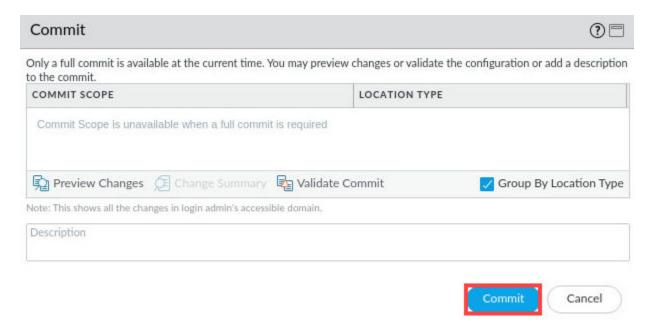
11. In the Task Manager – All Tasks window, verify the Load type has been completed. Click Close



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

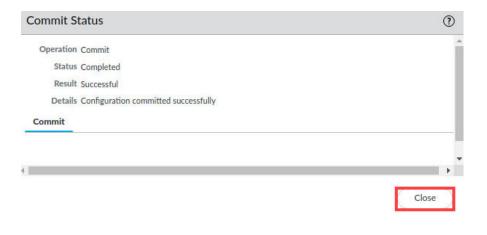


13. In the Commit window, click Commit to proceed with committing the changes.





14. When the *Commit* operation completes, click **Close** to continue.





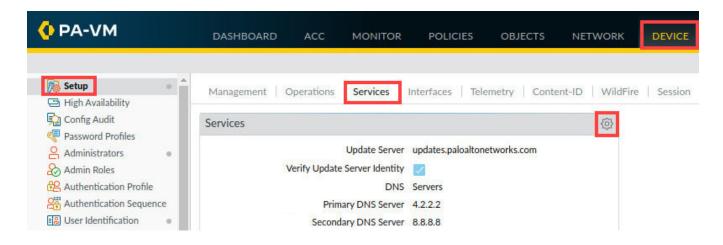
The commit process takes changes made to the Firewall and copies them to the running configuration, which will activate all configuration changes since the last commit.



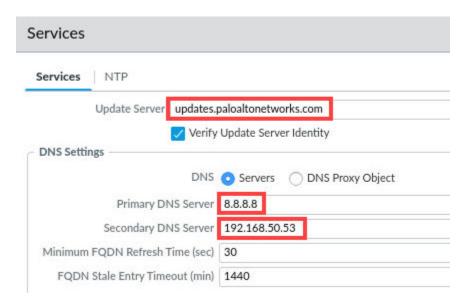
#### 1.2 Configure the Update Server and DNS Server

In this section, you will configure the DNS and Update Server settings. The DNS server configuration settings are used for all DNS queries that the firewall initiates in support of FQDN Address objects, logging, and firewall management.

1. In the web interface, select **Device > Setup > Services**. Click the **Services gear** icon to open the *Services* window.

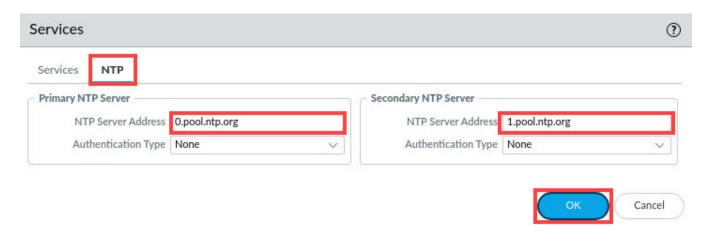


2. In the Services window, verify that the Update Server is set to updates.paloaltonetworks.com. Set the Primary DNS Server to 8.8.8.8 and the Secondary DNS Server to 192.168.50.53.





3. Select the **NTP** tab. Set the *Primary NTP Server* to **0.pool.ntp.org** and the *Secondary NTP Server* to **1.pool.ntp.org**. Click **OK**.



4. Verify the settings have been updated in the Services window.

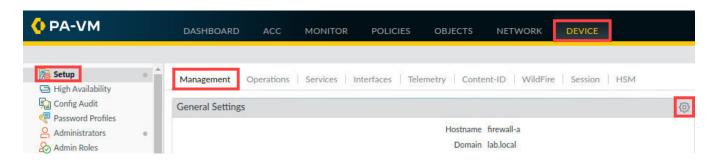




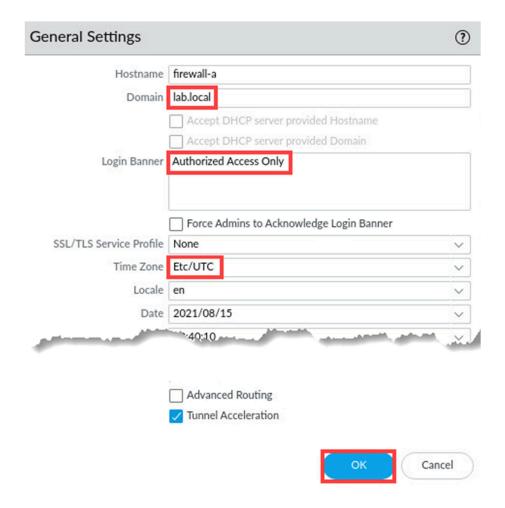
#### 1.3 Configure General Settings of the Firewall

In this section, you will configure the general settings of the Palo Alto Networks Firewall. You will verify the Domain, set your location's time zone, and set a login banner.

1. Navigate **Device > Setup > Management**. Click on the **General Settings gear** icon to open the *General Settings* window.



 In the General Settings window, verify the Domain listed is lab.local. For the Login Banner, enter Authorized Access Only. Choose the Time Zone of your location. For this lab, we chose to use Etc/UTC as the Time Zone. Click OK.

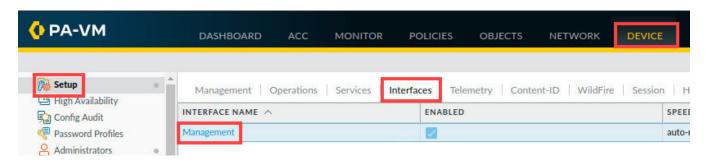




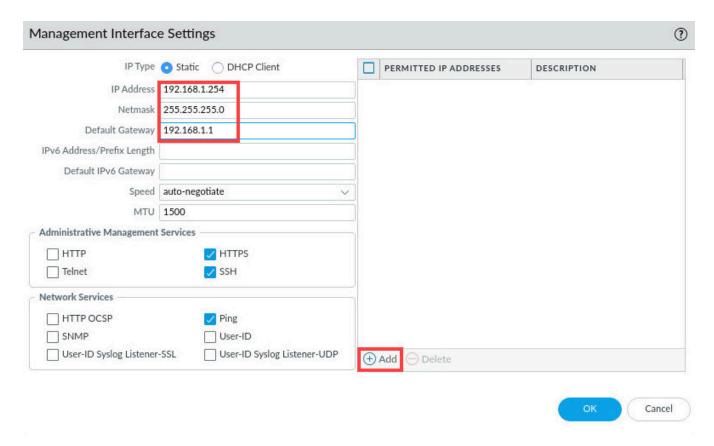
#### 1.4 Modify the Management Interface

In this section, you will modify the management interface of the firewall.

1. Navigate to **Device > Setup > Interfaces** and click on interface name **Management**.

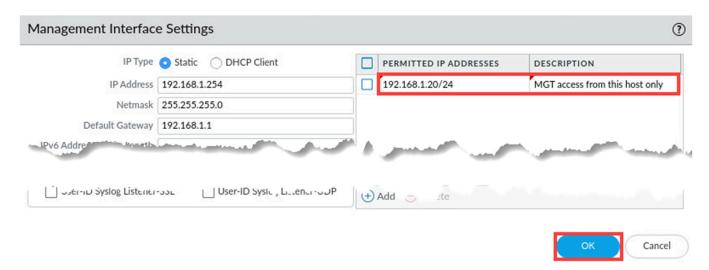


2. In the *Management Interface Settings* window, verify **192.168.1.254** for the *IP Address*, **255.255.26** for the *Netmask*, and **192.168.1.1** for the *Default Gateway*. At the bottom of the *Permitted IP Addresses* area, click **Add**.





3. In the *Permitted IP Addresses*, type **192.168.1.20/24** for the *IP Address* and **MGT access from this host only** for the *description*. Click **OK**.

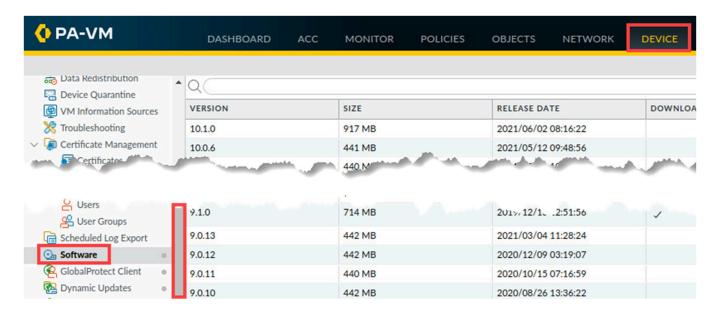




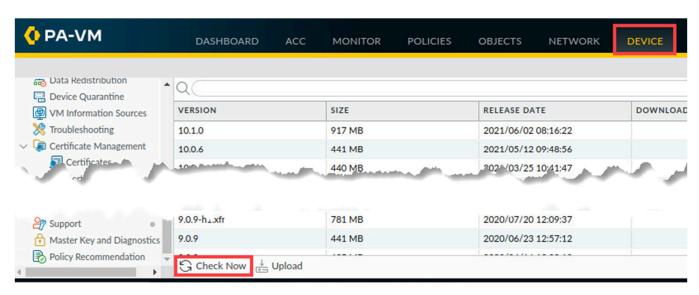
#### 1.5 Check for New PAN-OS Software

In this section, you will check for new PAN-OS software and commit your changes.

1. In the *PA-VM* web interface, navigate to **Device > Software**. If needed, use the scroll bar to find Software.



2. In the Software window, click Check Now in the bottom-left corner.





3. The Palo Alto Networks Firewall will complete a *software check*. Monitor the *software check*, and when the process is complete, the firewall will display an updated list of available software.



40								
VERSION	SIZE	RELEASE DATE	DOWNLOADED	CURRENTLY INSTALLED	ACTION			
10.1.1	297 MB	2021/07/21 09:33:46			Download			
10.1.0	917 MB	2021/06/02 08:16:22			Download			
10.0.6	441 MB	2021/05/12 09:48:56			Download			
10.0.5	440 MB	2021/03/25 10:41:47			Download			
10.0.4	431 MB	2021/02/01 17:09:54			Download			
10.0.3	431 MB	2020/12/09 19:38:09			Download			
10.0.2	430 MB	2020/10/28 11:33:33			Download			
10.0.1	332 MB	2020/09/03 09:32:34			Download			
10.0.0	806 MB	2020/07/16 20:15:10	~	✓	Reinstall			
9.1.10	398 MB	2021/06/10 11:28:23			Download			



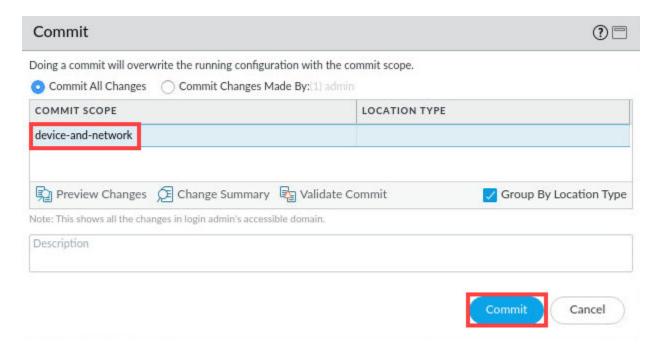
The list you see will vary from this example. Also, newer versions of PAN-OS software may be available at the time you carry out these steps. Do not upgrade your firewall.

4. Commit your changes to the firewall by clicking the **Commit** button at the upper-right of the *PA-VM* web interface.

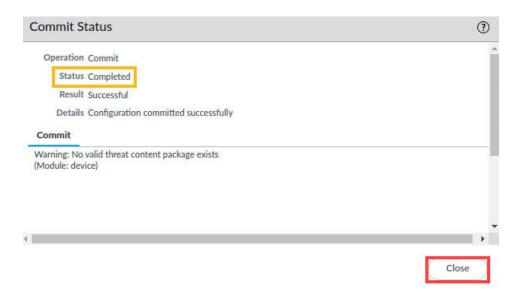




5. In the *Commit* window, view the commit scope. Click **Commit**.



6. Wait until the Commit process is complete. Click Close.



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