



# **PAN9 CYBERSECURITY GATEWAY**

## **Lab 11: Backing up Firewall Logs**

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## Introduction

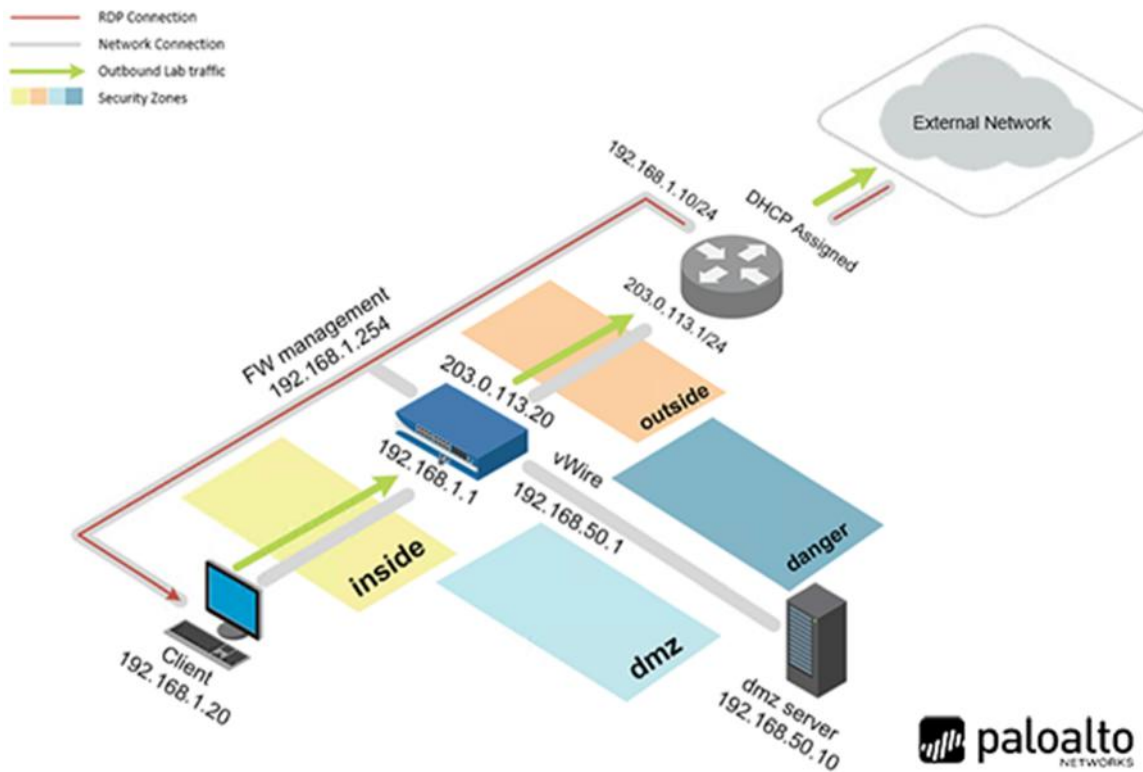
In this lab, you will back up your Firewall logs using both FTP and SCP protocols.

## Objective

In this lab, you will perform the following tasks:

- 1. Back up Firewall Logs

## 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.

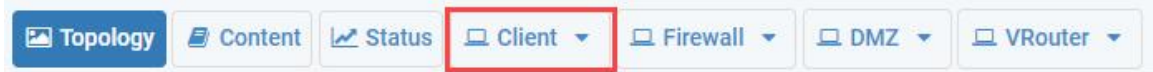
| Virtual Machine | IP Address    | Account<br>(if needed) | Password<br>(if needed) |
|-----------------|---------------|------------------------|-------------------------|
| Client          | 192.168.1.20  | lab-user               | Train1ng\$              |
| DMZ             | 192.168.50.10 | root                   | Pal0Alt0                |
| Firewall        | 192.168.1.254 | admin                  | Train1ng\$              |

## 11 Lab: Backing up Firewall Logs

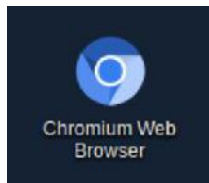
### 11.0 Load Lab Configuration

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

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



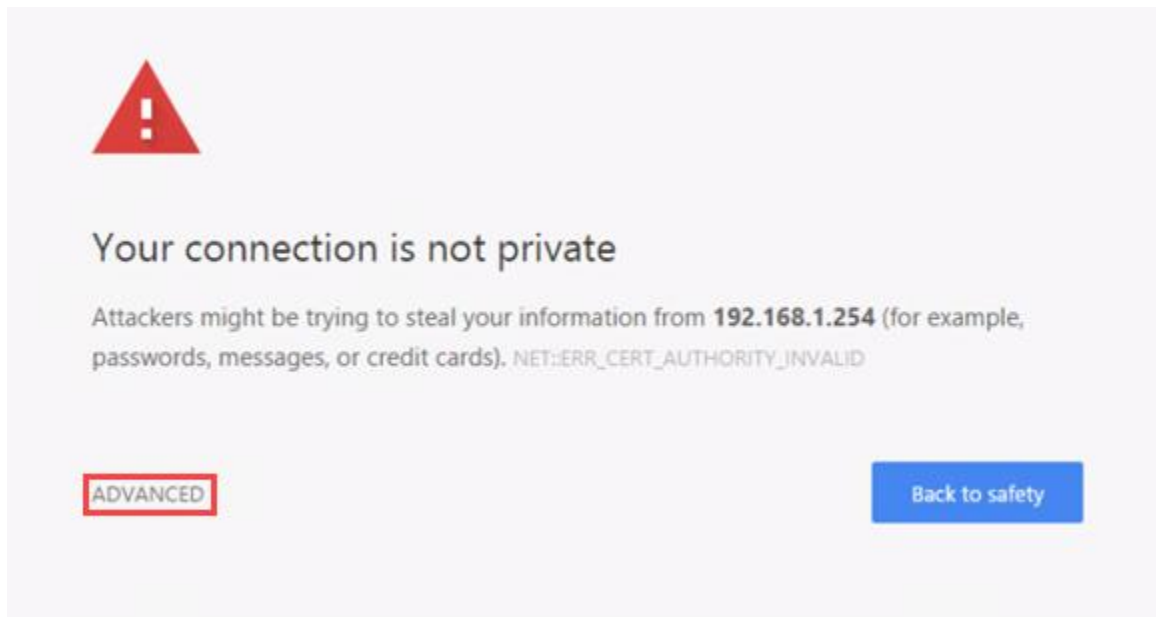
2. Log in to the Client PC as username **lab-user**, password **Train1ng\$**.
3. Double-click the **Chromium** icon located on the Desktop.



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



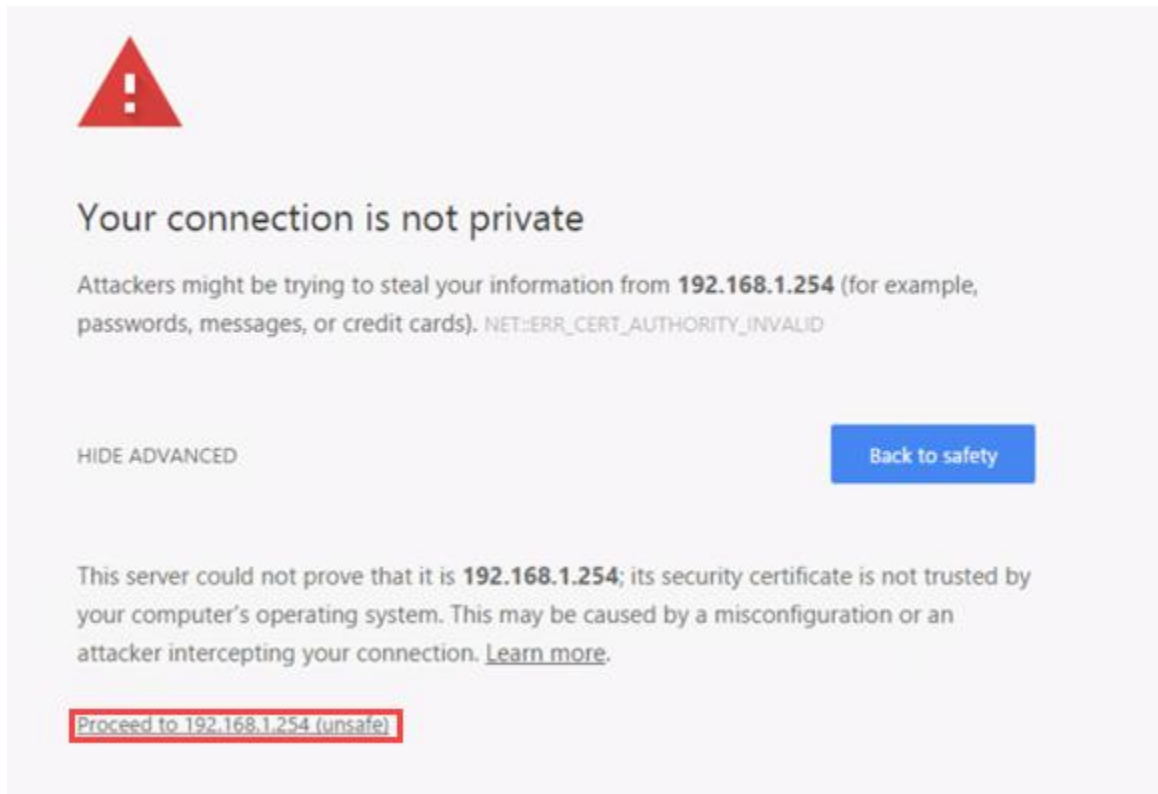
5. You will see a “Your connection is not private” message. Click on the **ADVANCED** link.





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

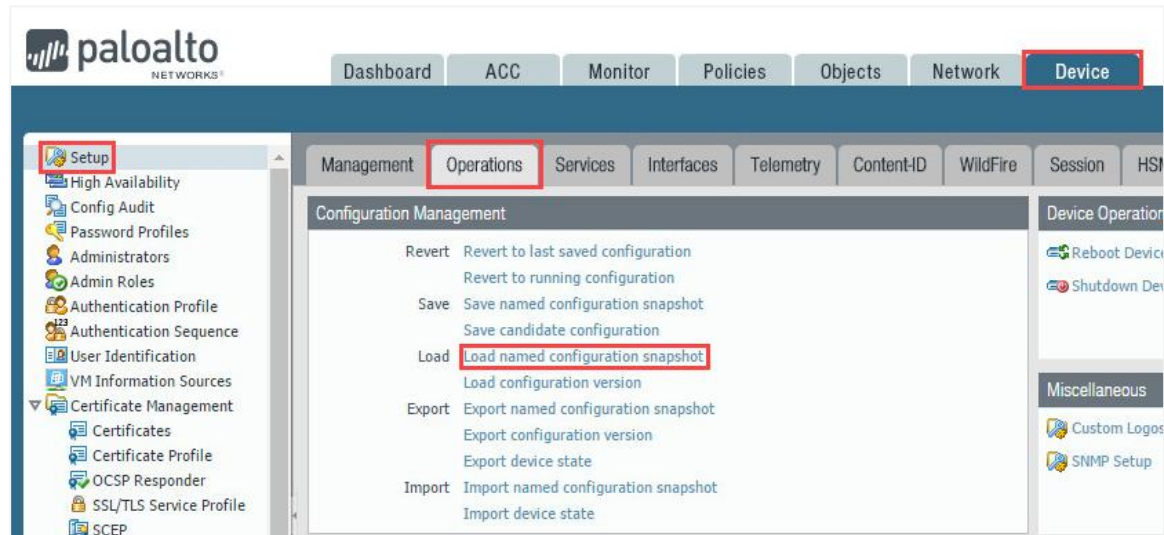
6. Click on **Proceed to 192.168.1.254 (unsafe)**.



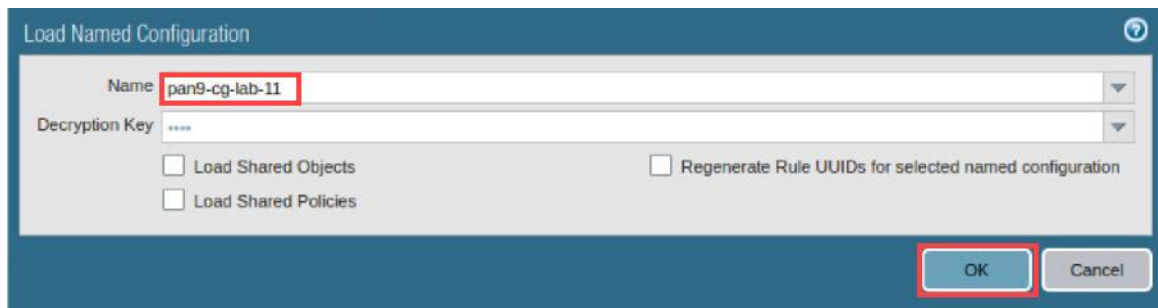
7. Log in to the Firewall web interface as username **admin**, password **Train1ng\$**.



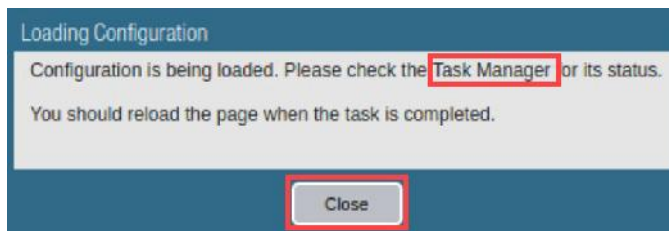
8. In the web interface, navigate to **Device > Setup > Operations** and click on **Load named configuration snapshot** underneath the *Configuration Management* section.



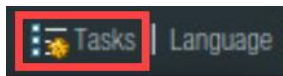
9. In the *Load Named Configuration* window, select **pan9-cg-lab-11** from the *Name* dropdown box and click **OK**.



10. 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.

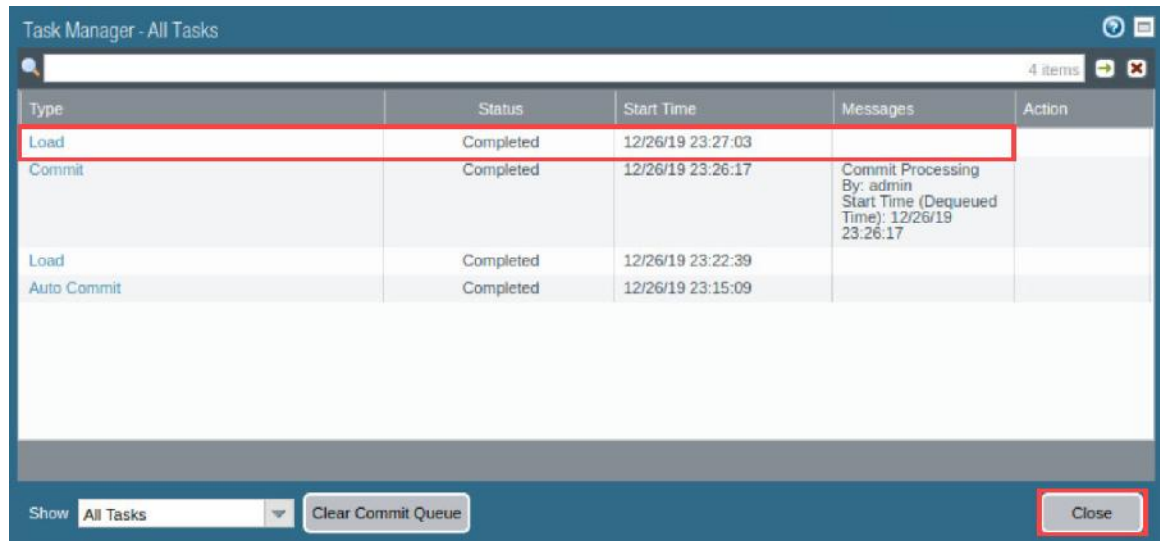


11. Click the **Tasks** icon located at the bottom-right of the web interface.

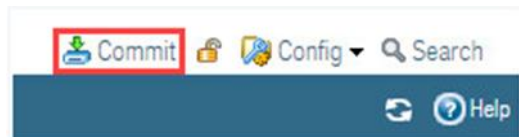




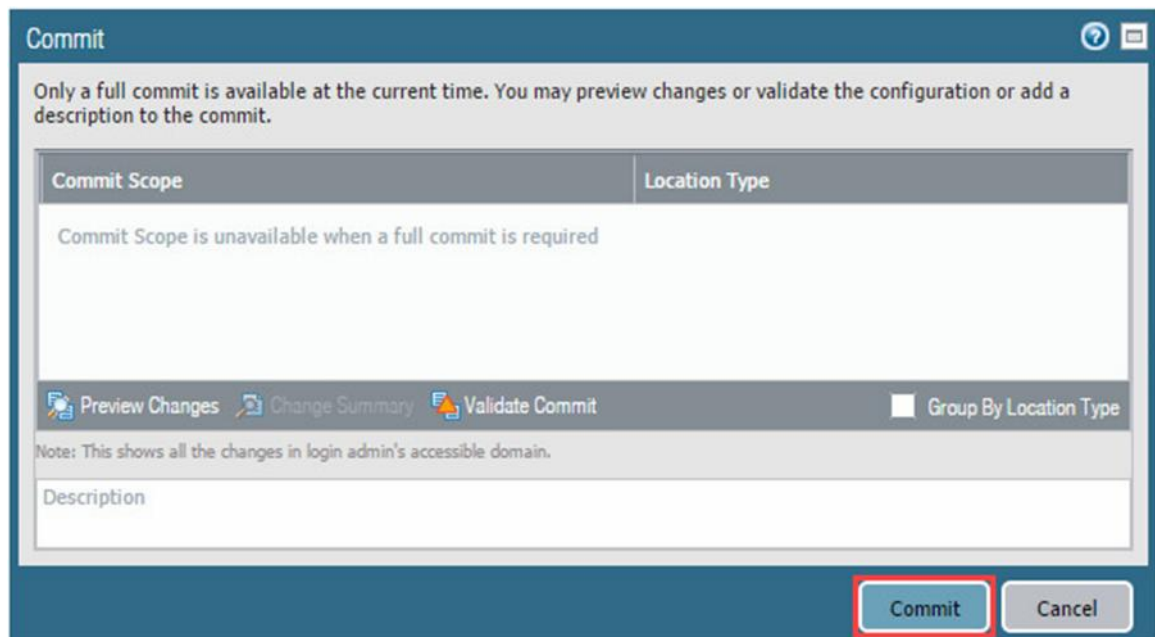
12. In the *Task Manager – All Tasks* window, verify the *Load* type has successfully completed. Click **Close**.



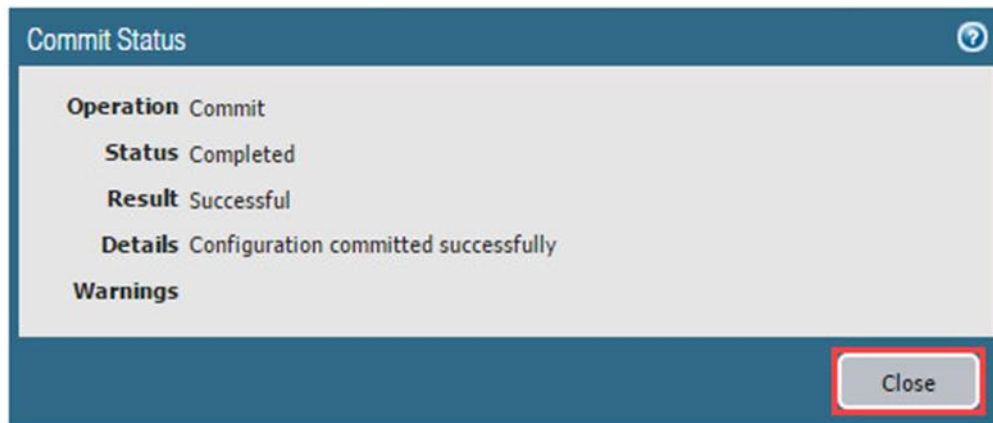
13. Click the **Commit** link located at the top-right of the web interface.



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.

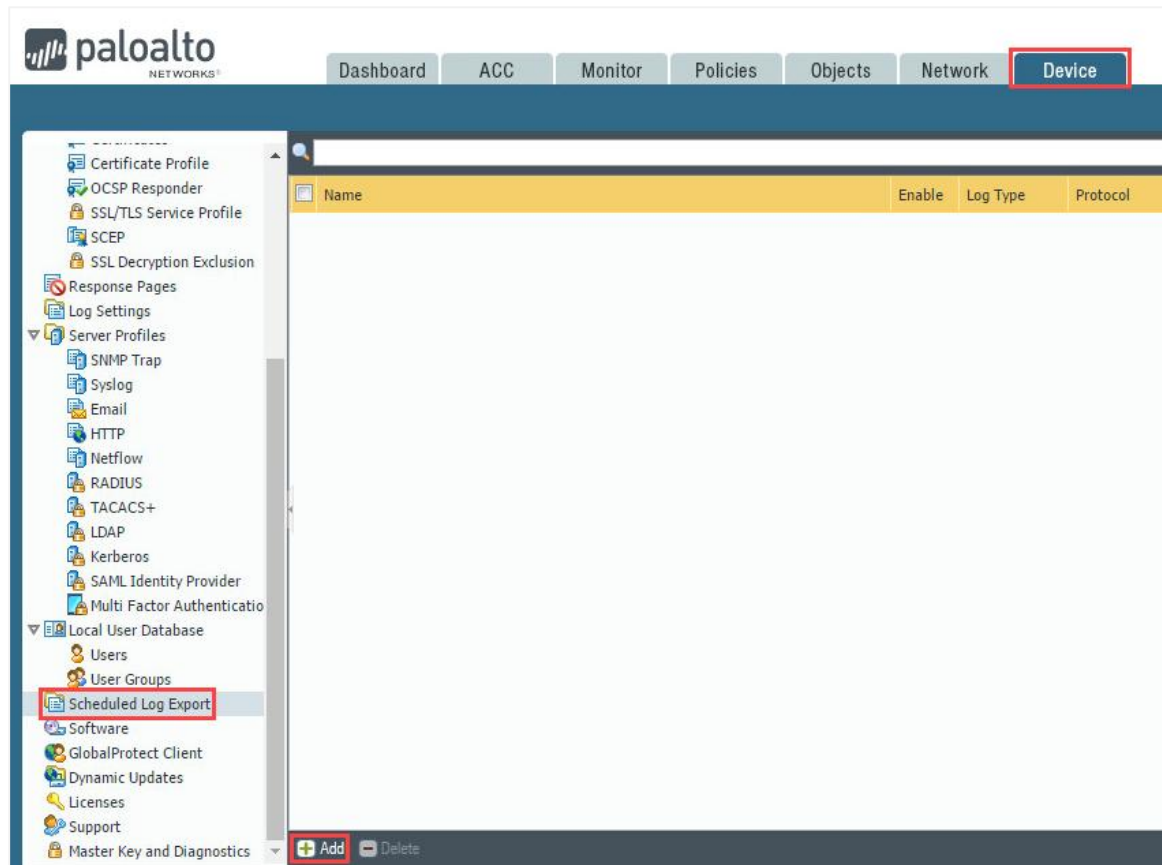
## 11.1 Back Up Firewall Logs

In this section, you will export Firewall logs to another location. Exporting firewall logs to an FTP Server is beneficial for keeping logs in the event that the logs are overwritten, or an unforeseen event happens to the Firewall, and the logs cannot be retrieved.

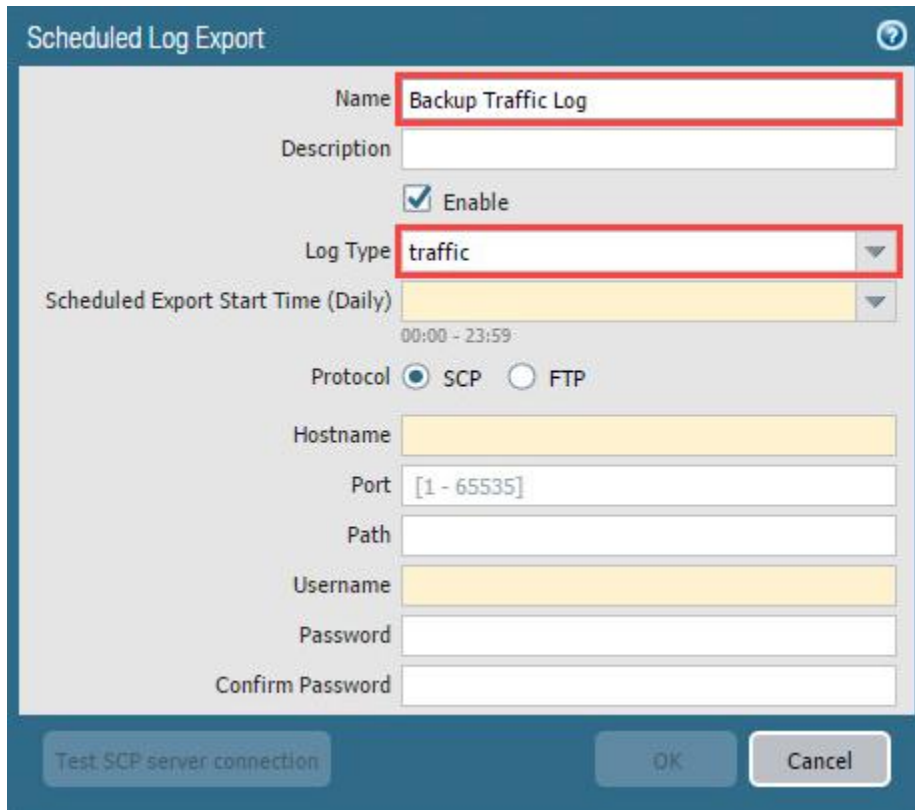
1. Make note of the time on the Firewall. Click on the **Device** tab, next click on the **Setup**. Next, click on the **Management** tab and view the current time on the firewall. (In this example, the time was 3:40 AM). If you convert this time to military time, it will be 0340 hours. Add 5 to 10 minutes to the current time to make it 0346 hours for the next step. This will allow enough time to properly configure the scheduled log export.



2. Navigate to **Device > Scheduled Log Export > Add**. You may need to scroll down on the left side panel.



3. In the *Scheduled Log Export* window, type **Backup Traffic Log** in the *Name* field. Next, make sure the *Log Type* is set to **traffic**.



The screenshot shows the "Scheduled Log Export" configuration window. The "Name" field is set to "Backup Traffic Log" and the "Log Type" dropdown is set to "traffic". Both fields are highlighted with red rectangles. The "Enable" checkbox is checked. The "Scheduled Export Start Time (Daily)" is set to "00:00 - 23:59". The "Protocol" is set to "SCP". The "Hostname", "Port", "Path", "Username", "Password", and "Confirm Password" fields are empty. The "Port" field has a hint "[1 - 65535]". At the bottom, there are buttons for "Test SCP server connection", "OK", and "Cancel".

Scheduled Log Export

Name: Backup Traffic Log

Description:

☒ Enable

Log Type: traffic

Scheduled Export Start Time (Daily): 00:00 - 23:59

Protocol: ☒ SCP ☐ FTP

Hostname:

Port: [1 - 65535]

Path:

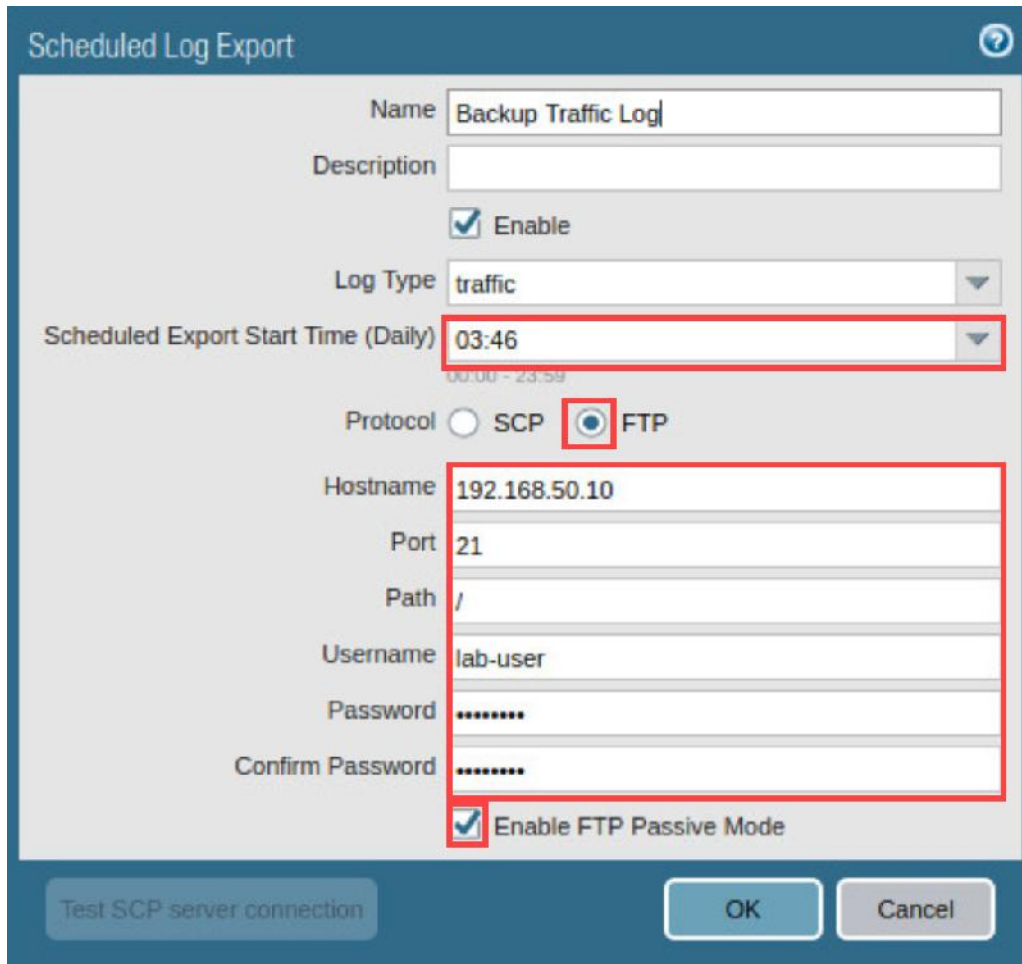
Username:

Password:

Confirm Password:

Test SCP server connection OK Cancel

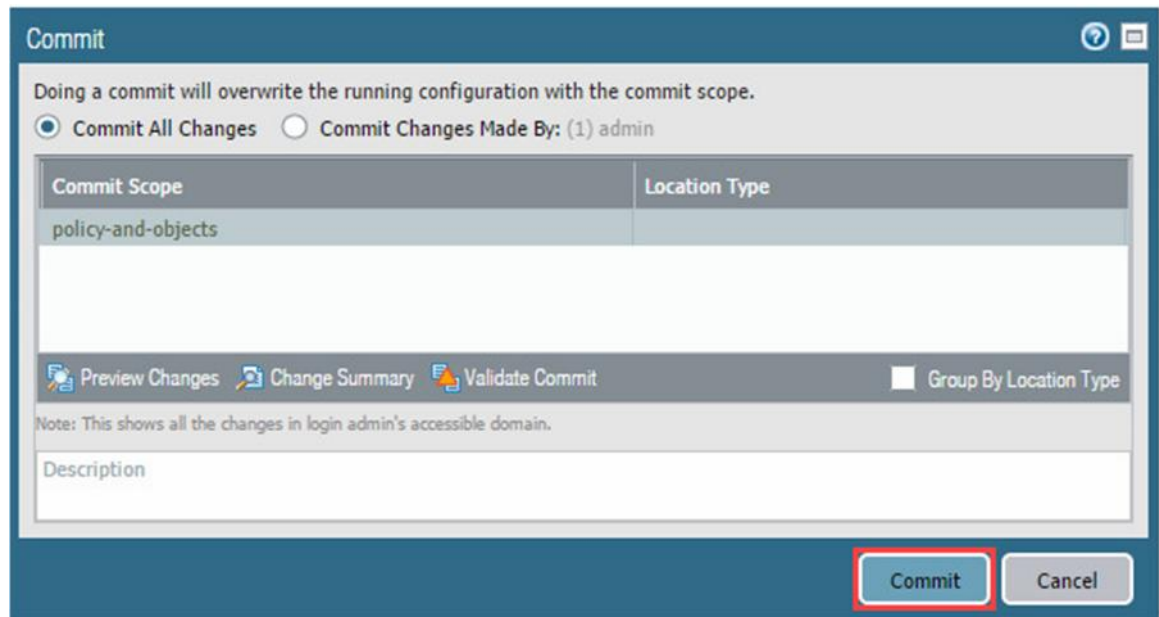
4. In the *Scheduled Log Export* window, add 5 minutes to the current time and type that in the *Scheduled Export Start Time (Daily)* field. The time format is in 24-hour time. (In this example, we want the job to run at 3:36 AM, so 03:46 is used). Next, click the radio button for **FTP**. Then, in the *Hostname* field, type **192.168.50.10**. Next, in the *Port* field, type **21**. Then, in the *Path* field, type **/**. Next, in the *Username* field, type **lab-user**. Then, in the *Password* and *Confirm Password* fields, type **pa1oa1to**. Finally, click the checkbox for **Enable FTP Passive Mode** and click **OK**.



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



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



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



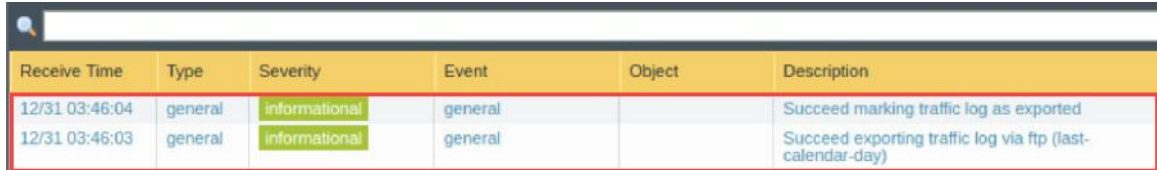
- Navigate to **Monitor > Logs > System**.



9. Change the *Refresh* dropbox to **10 Seconds** at the top-right.



10. After the time you set for the job to run, you will see a log entry that shows a completed log export of the traffic log to the FTP server. You will need to allow 2 - 3 minutes for the *System* logs to reflect the successful log export.



| Receive Time   | Type    | Severity      | Event   | Object | Description   |
|----------------|---------|---------------|---------|--------|---|
| 12/31 03:46:04 | general | informational | general |        | Succeed marking traffic log as exported                   |
| 12/31 03:46:03 | general | informational | general |        | Succeed exporting traffic log via ftp (last-calendar-day) |

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