



NETWORK SECURITY FUNDAMENTALS V2

Lab 8: 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.

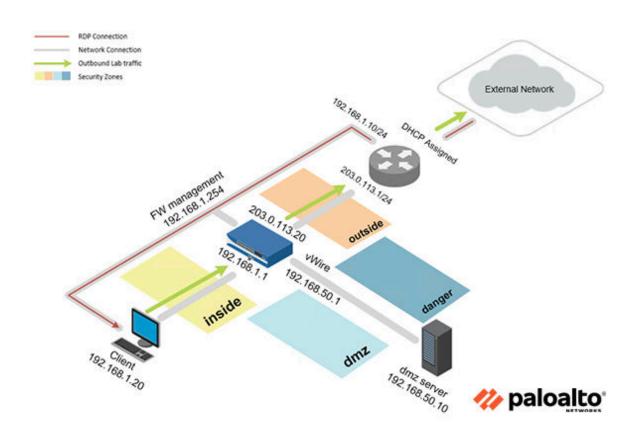
Objective

In this lab, you will perform the following tasks:

• 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 (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 Backing up Firewall Logs

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.



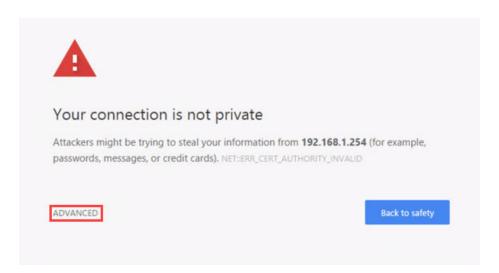
- 2. Log in to the Client PC as username lab-user, password Pal0Alt0!.
- 3. Double-click the **Chromium** icon located on the Desktop.



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.

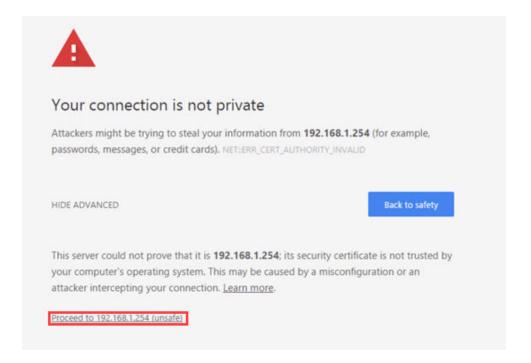




If you experience the "Unable to connect" or "502 Bad Gateway" message while attempting to connect to the specified IP above, please wait an additional 1-3 minutes for the Firewall to fully initialize. Refresh the page to continue.



6. Click on Proceed to 192.168.1.254 (unsafe).

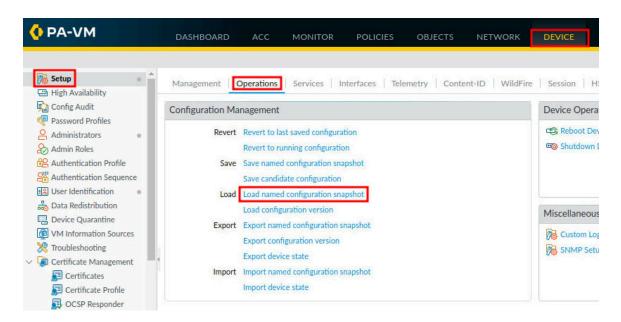


7. Log in to the Firewall web interface as username admin, password PalOAltO!.

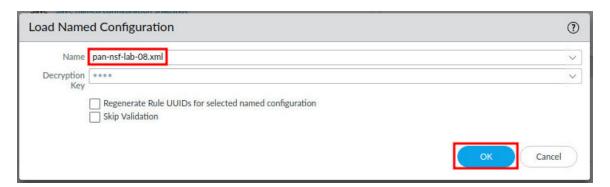




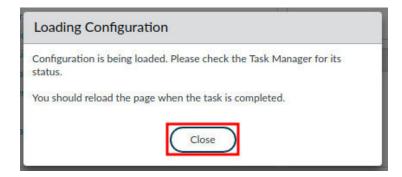
 In the web interface, navigate to Device > Setup > Operations and click on Load named configuration snapshot underneath the Configuration Management section.



9. In the *Load Named Configuration* window, select **pan-nsf-lab-08.xml** from the *Name* dropdown box and click **OK**.

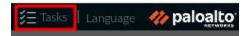


10. In the Loading Configuration window, a message will show Configuration is being loaded. Please check the Task Manager for its status. You should reload the page when the task is completed. Click **Close** to continue.

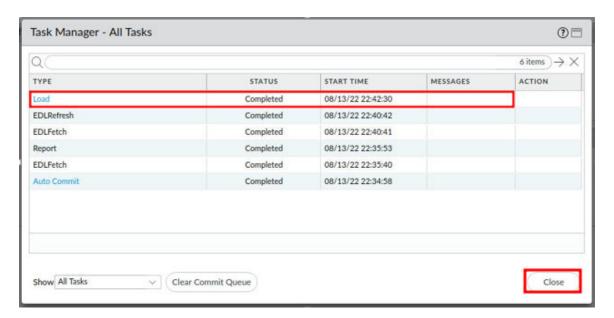




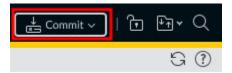
11. Click the **Tasks** icon located at the bottom-right of the web interface.



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

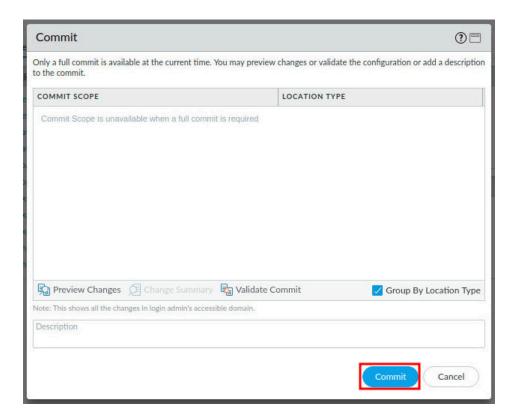


13. Click the **Commit** link located at the top-right of the web interface.





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



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





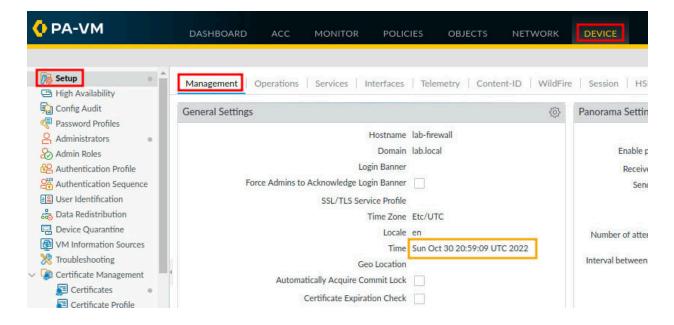
The commit process takes changes made to the Firewall and copies them to the running configuration, which will activate all configuration changes since the last commit.



1.1 Back Up Firewall Logs

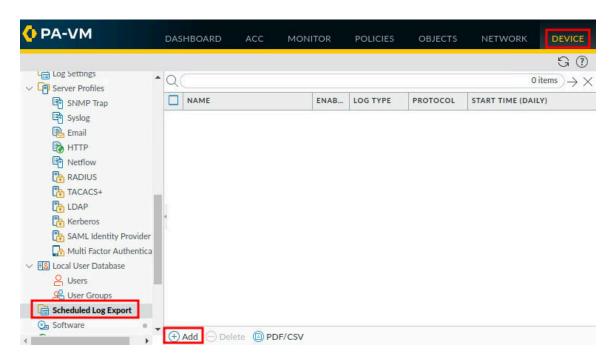
In this section, you will export Firewall logs to another location. Exporting firewall logs to an FTP Server is beneficial for keeping logs in the event that the logs are overwritten, or an unforeseen event happens to the Firewall, and the logs cannot be retrieved.

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 1:28 AM). If you convert this time to military time, it will be 0128 hours. Add 10 minutes to the current time to make it 0138 hours for the next step. This will allow enough time to properly configure the scheduled log export.

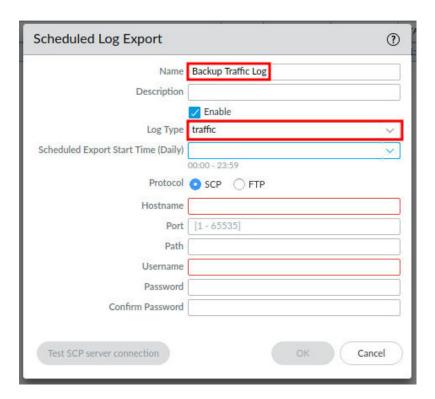




2. Navigate to **Device > Scheduled Log Export > Add**. You may need to scroll down on the left side panel.

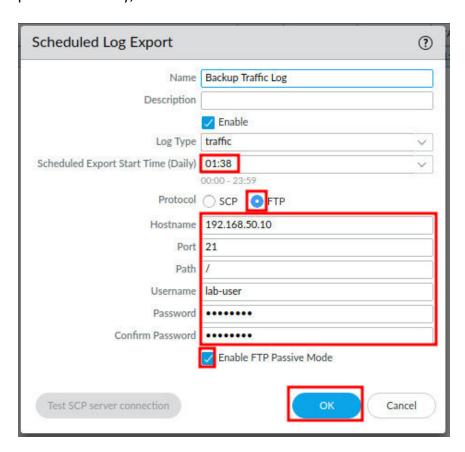


3. In the Scheduled Log Export window, type Backup Traffic Log in the Name field. Next, make sure the Log Type is set to **traffic**.





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 06:45 AM). 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 paloalto. Finally, click the checkbox for Enable FTP Passive Mode and click OK.

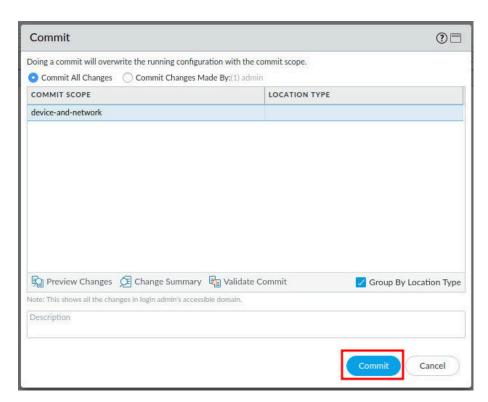


5. Click the **Commit** link located at the top-right of the web interface.





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

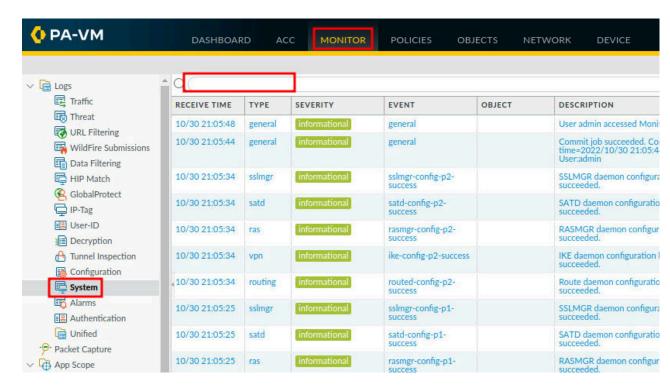


7. When the commit operation successfully completes, click **Close** to continue.





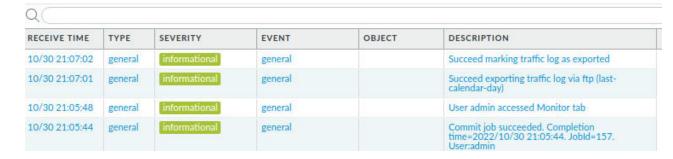
8. Navigate to **Monitor > Logs > System**. If there is text present in the *Filter* text box, delete it before moving to the next step.



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 several minutes for the *System* logs to reflect the successful log export.



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