

8.15 Lab: Configure QoS

Candidate: COMPTIA COMPTIA ()

Time Spent: 00:39

Score: 0%

Task Summary

Required Actions and Questions

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- ✗ Create an alias [Show Details](#)
 - ✗ Use the Traffic Shaper wizard for dedicated links using one WAN connection
 - ✗ Configure the Traffic Shaper [Show Details](#)
 - ✗ Prioritize voice-over IP traffic [Show Details](#)
 - ✗ Enable and configure a penalty box [Show Details](#)
 - ✗ Raise and lower the applicable application's priority [Show Details](#)
 - ✗ Q1: How many firewall rules were created?
Your answer:
Correct answer: 7
 - ✗ Change the port number used for the MSRDP outbound rule
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Explanation

Complete this lab as follows:

1. Sign in to the pfSense management console.
 - a. In the Username field, enter **admin**.
 - b. In the Password field, enter **P@ssw0rd** (0 = zero).
 - c. Select **SIGN IN** or press **Enter**.
2. Create a high bandwidth usage alias.
 - a. From the pfSense menu bar, select **Firewall > Aliases**.
 - b. Select **Add**.
 - c. Configure the Properties as follows:
 - Name: **HighBW**
 - Description: **High bandwidth users**
 - Type: **Host(s)**
 - d. Add the IP addresses of the offending computers to the host(s) configuration as follows:
 - Under Host(s), in the *IP or FQDN* field, enter **172.14.1.25** for Vera's system.
 - Select **Add Host**.

- In the new *IP or FQDN* field, enter **172.14.1.100** for Paul's system.
 - e. Select **Save**.
 - f. Select **Apply Changes**.
3. Start the Traffic Shaper wizard for dedicated links.
 - a. From the pfSense menu bar, select **Firewall > Traffic Shaper**.
 - b. Under the Firewall bread crumb, select **Wizards**.
 - c. Select **traffic_shaper_wizard_dedicated.xml**.
 - d. Under Traffic Shaper wizard, verify that the *Enter number of WAN type connections* field is set to **1** and then select **Next**.
 4. Configure the Traffic Shaper.
 - a. Make sure you are on Step 1 of 8.
 - b. Using the drop-down menu for the upper Local interface, select **GuestWi-Fi**.
 - c. Using the drop-down menu for the lower Local interface, make sure **PRIQ** is selected.
 - d. For the upper *Upload* field, enter **8**.
 - e. Using the drop-down menu for the lower *Upload* field, select **Mbit/s**.
 - f. For the top Download field, enter **50**.
 - g. Using the drop-down menu for the lower *Download* field, select **Mbit/s**.
 - h. Select **Next**.
 5. Prioritize voice-over IP traffic.
 - a. Make sure you are on Step 2 of 8.
 - b. Under *Voice over IP*, select **Enable** to prioritize the voice over IP traffic.
 - c. Under *Connection #1 parameters*, in the Upload rate field, enter **10**.
 - d. Using the drop-down menu for the top Units, select **Mbit/s**.
 - e. For the Download rate, enter **20**.
 - f. Using the drop-down menu for the bottom Units, select **Mbit/s**.
 - g. Select **Next**.
 6. Enable and configure a penalty box.
 - a. Make sure you are on Step 3 of 8.
 - b. Under Penalty Box, select **Enable** to enable the penalize IP or alias option.
 - c. In the Address field, enter **HighBW**. This is the alias created earlier.
 - d. For Bandwidth, enter **3**.
 - e. Select **Next**.
 7. Continue to step 6 of 8.
 - a. For Step 4 of 8, scroll to the bottom and select **Next**.
 - b. For Step 5 of 8, scroll to the bottom and select **Next**.
 8. Raise and lower the applicable application's priority.
 - a. Make sure you are on Step 6 of 8.
 - b. Under Raise or lower other Applications, select **Enable** to enable other networking protocols.
 - c. Under Remote Service / Terminal emulation, use the:
 - MSRDP drop-down menu to select **Higher priority**.
 - VNC drop-down menu to select **Higher priority**.
 - d. Under VPN:
 - Use the PPTP drop-down menu to select **Higher priority**.
 - Use the IPSEC drop-down menu to select **Higher priority**.
 - e. Scroll to the bottom and select **Next**.
 - f. For step 7 of 8, select **Finish**.

Wait for the reload status to indicate that the rules have been created (look for Done).
 9. View the floating rules created for the firewall.
 - a. Select **Firewall > Rules**.
 - b. Under the Firewall breadcrumb, select **Floating**.
 - c. From the top right, select **Questions**.
 - d. Answer the question and then minimize the question dialog.
 10. Change the port number used for the MSRDP outbound rule.

- a. For the *m_Other MSRDP outbound* rule, select the ***edit*** icon (pencil).
- b. Under Edit Firewall Rule, in the *Interface* field, select **GuestWi-Fi**.
- c. Under Destination, use the Destination Port Range drop-down menu to select **Other**.
- d. In both Custom fields, enter **3391**.
- e. Select **Save**.
- f. Select **Apply Changes**.