7.7 Lab: Configure NIC Teaming

Candidate: COMPTIA COMPTIA ()
Time Spent: 00:47

Score: 0%

Task Summary

Required Actions and Questions

✗ Connect the 4 port NIC to the switch   <u>Show Details</u>

✗ Create the NIC team   <u>Show Details</u>

✗ *Q1*: What is the connection speed of Ethernet 3, 4, 5, or 6?

    Your answer:

    Correct answer: 1 Gbps

✗ Configure the External network to use NetTeam   <u>Show Details</u>

✗ *Q2*: What is the connection speed of NetTeam?

    Your answer:

    Correct answer: 4 Gbps

Explanation 🎧

Complete this lab as follows:

1. Move the network cable from the onboard adapter in the CorpServer to the 4-port NIC in CorpServer.
    a. Above the rack, select **Back** to switch to the back view of the rack.
    b. Drag the *network cable* from the onboard network adapter on CorpServer (the 1U server) to a free port on the 4-port NIC in CorpServer.
    c. Above the rack, select **Front** to switch to the front view of the rack.

2. Connect network cables from the 4-port NIC on CorpServer to the switch ports 19, 20, and 21.
    a. Under Shelf, expand **Cables**.
    b. Select **Cat6a Cable, RJ45**.
    c. From the Selected Component pane, drag an unconnected RJ45 cable to port **19, 20**, or **21**.
    d. Repeat steps 2b-2c for two more cables. Use a port not previously used.
    e. Above the rack, select **Back**.
    f. From Partial Connections:

      ▪ Drag a cable to an open port on the 4-port NIC in CorpServer.
      ▪ Repeat the previous step until there are no more cables in Partial Connections.

3. Configure the adapter ports as members of a NIC team.
    a. On the CorpServer monitor, select **Click to view Windows Server 2022**.
    b. From Server Manager, select **Local Server** from the menu on the left.

c. Next to NIC Teaming, select **Disabled** to enable and configure NIC Teaming.

d. From the Teams panel, use the **Tasks** drop-down list to select **New Team**.

e. In the *Team name* field, type **NetTeam**.

f. Select adapters **Ethernet 3** through **Ethernet 6** to be included in the team.

g. From the top right, select **Questions**.

h. Answer Question 1.

i. Minimize the Lab Questions window.

j. From the NIC Teaming window, expand **Additional Properties**.

k. Configure the additional properties as follows:

- Teaming mode: **LACP**
- Load balancing mode: **Address Hash**
- Standby adapter: **None (all adapters Active)**

l. Select **OK** to close the NIC Teaming dialog.

m. Close the NIC Teaming window.

4. Configure the Hyper-V Virtual Switch Manager to use the new NIC team for the External network.

a. From Server Manager's menu bar, select **Tools** > **Hyper-V Manager**.

b. Right-click **CORPSERVER** and then select **Virtual Switch Manager**.

c. Under Virtual Switches, select the **External** switch for configuration options.

d. Under Connection type, use the External network drop-down to select the **Microsoft Network Adapter Multiplexor Driver**.

e. Select **OK**.

5. Verify the status of the team and your network connection using the Network and Sharing Center.

a. From the system tray, right-click on the **network** icon and then select **Open Network and Sharing Center**.

b. Verify that the vEthernet (External) NIC has an internet connection. Also, notice that the network icon in the system tray shows that the server is connected.

c. To check the connection speed in the Network and Sharing Center, select **NetTeam** connection on the right.

d. At the top right, select **Questions**.

e. Answer Question 2.