6.12 Lab: Troubleshoot Address Pool Exhaustion

Candidate: COMPTIA COMPTIA ()
Time Spent: 00:22

Score: 0%

Task Summary

Required Actions and Questions

✕ Run **ipconfig /all** on the seven marketing computers

✕ *Q1*: Do all of the machines have a DHCP-assigned IP address?

Your answer:

Correct answer: No

✕ *Q2*: Is DHCP enabled on each Ethernet adapter?

Your answer:

Correct answer: Yes

✕ *Q3*: What is the DHCP Server IP address?

Your answer:

Correct answer: 192.168.0.14

✕ *Q4*: Is the scope ending IP address assigned to any of the computers?

Your answer:

Correct answer: Yes

✕ Set the *End IP address* for the *Scope [192.168.0.1] Subnet1* to **192.168.0.254**

✕ *Q5*: After running ipconfig /renew did the address change?

Your answer:

Correct answer: Yes

Explanation 🎧

Complete this lab as follows:

1. Run **ipconfig /all** on the seven marketing computers.
   a. Under Marketing Group A, select **Marketing1**.
   b. At the top right, select **Questions**, then review (but do not answer) questions 1-4.
   c. Minimize the Lab Questions dialog.
   d. Right-click **Start** and then select **Windows PowerShell (Admin)**.
   e. Maximize the terminal window for better viewing.

f. From the terminal window, type **ipconfig /all** and press **Enter**.
Note the DHCP results (as outlined in questions 1-3).
g. From the top left, select **Floor 2**.
h. Repeat Steps 1d-1g for the remaining marketing computers (2-7).

- Select **Terminal (Admin)** instead of Windows PowerShell (Admin).

i. At the top right, select **Questions**.
j. Use the ethernet adapter information to answer questions 1-3.
k. Minimize the Lab Questions dialog.

2. On the first floor, under the Networking Closet, view the properties of *CorpServer* subnet1 scope.
   a. From the top left, select **Building A**.
   b. Under Building A, select **Floor 1**.
   c. Under Networking Closet, select **CorpServer**.
   d. Maximize the Hyper-V Manager window for better viewing.
   e. Under Hyper-V Manager, select **CORPSERVER**.
   f. Double-click **CorpDHCP** to connect to the CorpDHCP virtual server.
   g. From the Server Manager dialog menu, select **Tools** and then select **DHCP**.
   h. On the left, expand **CorpDHCP.CorpNet.local > IPv4**.
   i. Right-click **Scope [192.168.0.1] Subnet1** and select **Properties**.
   j. At the top right, select **Questions**.
   k. Answer question 4 and then minimize the Lab Questions dialog.

3. Set the *End IP address* for the *Scope [192.168.0.1] Subnet1* to **192.168.0.254**.
   a. From the Scope [192.168.0.1] Subnet1 Properties dialog, change the End IP address to **192.168.0.254**.
   b. Select **OK**.

4. Select a computer with a connectivity issue and run **ipconfig /renew**.
   a. From the top left, select **Building A**.
   b. Under Building A, select **Floor 2**.
   c. Select a computer that previously had an APIPA address.
   d. From the open terminal window, type **ipconfig /renew** and press **Enter**.
   e. At the top right, select **Questions**.
   f. Answer question 5.