

CIS231 – Install Windows 2019 and make it a Second Domain Controller in your Domain

BEFORE WORKING ON THIS ASSIGNMENT YOU MUST ALREADY HAVE SUBMITTED AND BEEN GRADED ON THE MOVE DHCP SERVICES ASSIGNMENT.

Part 1: Objective of this part of the assignment

- Install Windows 2019 and make it a Domain Controller in your existing domain. The ISO is in the VMware Datastore. You'll need to get the product key from Microsoft Azure). Install the Data Center (Desktop Experience)
- Use XXX-231-SRV2019 as the virtual machine name. Replace XXX with your initials.
- Use the win2019-srv as the computer name.
- Install VMware Tools
- Disable IPv6
- Include DNS services on the new domain controller
- Make the 'new' DNS server the primary DNS server for all client machines on your network and make the original DNS server the secondary (alternate) DNS server for all client machines.
- Make the 2019 server the Schema Operations Master as well as the domain naming operations master.
- Test everything

When done, submit the following screenshots

At the New Domain Controller:

1. Within Active Directory Users & Computers, a screenshot of the Domain Controller's container
2. Within DNS, click ON the cis231.bcc container (I need to see the records that exist in this zone). Take a screenshot which includes both panes; no cropping.
3. At the command prompt, execute the command: Dsquery server (Include it and its output as the answer to this question).
4. Execute the netdom query fsmo command and include its output.
5. Execute the IPconfig /all command and include its output.

At the Original Domain Controller:

6. Within DNS, click ON the cis231.bcc container (I need to see the records that exist in this zone). Take a screenshot which includes both panes; no cropping.

At the DHCP Server :

7. Within the DHCP management tool, click on "Scope Options" in the left pane and include a screenshot of the full window (both panes, no cropping)
8. Within the DHCP management tool, click on "Address Pool" in the left pane and include a screenshot of the full window (both panes, no cropping)

At EACH of the Clients

9. Execute the IPconfig /all command and include its output.

Part 2:

Configure a dhcp failover scope

- The two partners in the scope must be your existing dhcp server (which should be your member server) and your Windows 2019 domain controller.
 - The Member server must be the active server
 - The 2019 server must be the standby server
 - The maximum client lead time and the state switch over interval must be 90 minutes
 - Enable message authentication
 - 15% of the addresses should be reserved for the standby server
- Confirm the failover works

Submit the following screenshots:

1. At the member server, a screenshot of the settings configured in the failover scope
2. At the Windows 2019 server, a screenshot of the settings configured in the failover scope.
3. An explanation, with appropriate screenshots, that confirms that if the active server is down, the standby server assigned addresses.