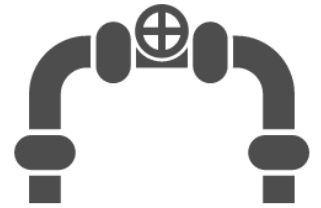


Module 3 Mastery Lab

Introduction

This is an assessment of a student's knowledge of the Module's material.



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Objectives

In this lab the student will:

- Install Active Directory.
- Create Organizational Units.
- Create users and groups.
- Create and configure a DNS zone.
- Create and configure a DHCP scope.
- Join the client computer to the domain.
- Replace all instances of **XX** with your initials.

Resources Needed

- Computer with Internet access
- VMWare Workstation Pro

Assignment

- Install Active Directory Domain Services
- Create Organizational Units
- Create User Accounts and Group Accounts
- Create and configure a DNS zone
- Create and configure a DHCP scope
- Join the Windows 10 Client computer to the new domain

Procedure

Part 1: Complete the following tasks on your TXServerXX server VM:

1. Install the **Active Directory Domain Services** role.
2. Promote your server to a domain controller by adding it to a new forest.
3. Name your new domain **LearnTexXX.local**. (where **XX** is your initials.)
4. Set the domain and forest functional levels to **Windows Server 2016**.
5. Set the directory services restore mode password to **Password1**.
6. Open a command prompt and type **dsquery computer**. Take a screenshot.
7. In Server Manager, open Active Directory Domains and Trusts. Right-click your domain and select properties. Take a screenshot.

Part 2: Complete the following tasks on your TXServerXX server VM:

1. Create the following OUs in your LearnTexXX.local domain:
 - Research
 - Accounting
 - Accounting\Payroll (Payroll is an OU inside the Accounting OU)
2. Create the following users in the Research OU:

First Name	Last Name	User Logon Name
Bob	Smith	bsmith
Sally	Jones	sjones

3. Create the following global groups in the Research OU:

Group Name	Scope	Members
Team1-G	Global	Bob Smith
Team2-G	Global	Sally Jones

4. Create a Global group in the Accounting OU called Acct-G.
5. Create a user template account in the Accounting OU with the following settings:
 - Full name: _AccountingUserTemplate

- User logon name: acct-template
- Password: Password1
- Uncheck User must change password at next logon
- Check Password never expires
- Check Account is disabled

6. Add the _AccountingUserTemplate account to the Acct-G group

7. Create two user accounts using the _AccountingUserTemplate with the following settings:

First Name	Last Name	User Logon Name
Accounting	User1	Accountinguser1
Accounting	User2	Accountinguser2

8. Open a command prompt and type **dsquery user**. Take a screenshot.

9. Open a command prompt and type **dsquery group**. Take a screenshot.

10. Open a Powershell prompt and type **Get-ADGroupMember Acct-G**. Take a screenshot.

11. At the Powershell prompt, type **Get-ADGroupMember Team1-G**. Take a screenshot.

Part 3: Complete the following tasks on your TXServerXX server VM:

1. In the DNS Console, create a new Forward Lookup Zone with the following settings: (Accept the defaults unless listed here)

- Zone Type: Primary
- Zone Name: Zone2-LearnTexXX.local
- Dynamic Update: Do not allow dynamic updates

2. Create a new Host (A) record in the Zone2-LearnTexXX.local zone with the following settings:

- Name: TXSERVERXX-PRT
- IP Address: 172.20.0.65

3. Open a Powershell prompt and type **Get-DNSServerZone**. Take a screenshot.

4. At the Powershell prompt, type:

Get-DNSServerResourceRecord Zone2-LearnTexXX.local. Take a screenshot.

Part 4: Complete the following tasks on your TXServerXX server VM:

1. Install the DHCP server role
2. Add a new DHCP IPv4 scope to TXServerXX with the following settings:
(Accept defaults for all settings not listed)
 - Name: TXScopeXX
 - Description: DHCP Scope 1
 - IP range: 192.168.5.100 – 192.168.5.200
 - Exclusion: 192.168.5.110 – 192.168.5.120
 - Lease Duration: 4 Days
 - Router (Default Gateway): 192.168.5.1
 - Do NOT activate the scope
3. Open a Powershell prompt and type **Get-DHCPServerv4Scope | select ***. Take a screenshot.

Part 5: Complete the following tasks on your TXClientXX computer VM:

1. Join the Windows 10 **TXClientXX** computer to the **LearnTexXX.local** domain.
2. Login to the TXClientXX computer with the LearnTexXX\administrator account.
3. Open a command prompt and type **whoami**. Take a screenshot.

Rubric

<u>Concerns</u> Working Towards Proficiency	<u>Criteria</u> Standards for This Competency	<u>Accomplished</u> Evidence of Mastering Competency
	Criteria #1: (PrtScr1.png) Server name & Domain name displayed in 'dsquery computer' output correct. (10 points)	
	Criteria #2: (PrtScr2.png) Domain & Forest Functional Levels correct.	

	(10 points)	
	Criteria #3: (PrtScr3.png) User accounts in 'dsquery user' output are correct. (10 points)	
	Criteria #4: (PrtScr4.png) Group accounts in 'dsquery group' output are correct. (10 points)	
	Criteria #5: (PrtScr5.png) Group members in Acct-G group in Get-ADGroupMember output are correct. (10 points)	
	Criteria #6: (PrtScr6.png) Group members in Team1-G group in Get-ADGroupMember output are correct. (10 points)	
	Criteria #7: (PrtScr7.png) DNS Zone information from Get-DNSServerZone output correct. (10 points)	
	Criteria #8: (PrtScr8.png) DNS Record information from Get-DNSServerResourceRecord output correct (10 points)	
	Criteria #9: (PrtScr9.png)) DHCP Scope information from Get-DHCPServerv4Scope correct. (10 points)	
	Criteria #10: (PrtScr10.png) Screenshot proving client successfully joined the domain. (10 points)	