

NETLOGIC TRAINING CENTER

Course Training

Identity with Windows Server 2016 (70-742)

Course Content

This five-day course teaches IT Pros how to deploy and configure Active Directory Domain Services (AD DS) in a distributed environment, how to implement Group Policy, how to perform backup and restore, and how to monitor and troubleshoot Active Directory–related issues with Windows Server 2016. Additionally, this course teaches how to deploy other Active Directory server roles such as Active Directory Federation Services (AD FS) and Active Directory Certificate Services (AD CS).

Course Objective

By the end of the course, you should be able to meet the following objectives:

- Install and configure domain controllers.
- Manage objects in AD DS by using graphical tools and Windows PowerShell.
- Implement AD DS in complex environments.
- Implement AD DS sites, and configure and manage replication.
- Implement and manage Group Policy Objects (GPOs).
- Manage user settings by using GPOs.
- Secure AD DS and user accounts.
- Implement and manage a certificate authority (CA) hierarchy with AD CS.
- Deploy and manage certificates.
- Implement and administer AD FS.
- Implement and administer Active Directory Rights Management Services (AD RMS).
- Implement synchronization between AD DS and Azure AD.
- Monitor, troubleshoot, and establish business continuity for AD DS services.

Course Prerequisite

In addition to professional experience, students who attend this training should already have the following technical knowledge:

- Some exposure to and experience with AD DS concepts and technologies in Windows Server 2012 or Windows Server 2016.
- Experience working with and configuring Windows Server 2012 or Windows Server 2016
- Experience and an understanding of core networking technologies such as IP addressing, name resolution, and Dynamic Host Configuration Protocol (DHCP).
- Experience working with and an understanding of Microsoft Hyper-V and basic server virtualization concepts.
- An awareness of basic security best practices.
- Hands-on working experience with Windows client operating systems such as Windows 7, Windows 8, Windows 8.1, or Windows 10.
- Basic experience with the Windows PowerShell command-line interface.

Course Pre-Test

Not Required

Course Details

Day 1

Item	Subject	Details	Personal Lab and devices	Workgroup Lab and devices
1	Installing and configuring domain controllers	<ul style="list-style-type: none"> • Overview of AD DS • Overview of AD DS domain controllers • Deploying a domain controller 	Theory and Lecture	
Break				
2	Managing objects in AD DS	<ul style="list-style-type: none"> • Managing user accounts • Managing groups in AD DS • Managing computer objects in AD DS • Using Windows PowerShell for AD DS administration • Implementing and managing OUs 	Theory and Lecture	
	Summary challenge advance lab for Deploying and administering AD DS and Management AD DS	<p>Lab 1</p> <ul style="list-style-type: none"> - Deploying AD DS - Deploying domain controllers by performing domain controller cloning - Administering AD DS <p>Lab 2</p> <ul style="list-style-type: none"> - Creating and managing groups in AD DS - Creating and configuring user accounts in AD DS - Managing computer objects in AD DS - Delegate administration for OUs - Creating and modifying AD DS objects with - Windows PowerShell 	<p>(Lab 1 to 2)</p> <p>Real Device</p> <p>Catalyst 3560-CX 1 Unit Cisco UCS Server C-Series ESXi 6.5 trial version VMWare vSphere Windows server 2016 trial version</p>	

Day 2

Item	Subject	Details	Trainee Lab and devices	Workgroup Lab and devices
3	Advanced AD DS infrastructure management	<ul style="list-style-type: none"> • Overview of advanced AD DS deployments • Deploying a distributed AD DS environment • Configuring AD DS trusts 	Theory and Lecture	
Break				
4	Implementing and administering AD DS sites and replication	<ul style="list-style-type: none"> • Overview of AD DS replication • Configuring AD DS sites • Configuring and monitoring AD DS replication 	Theory and Lecture	
5	Implementing Group Policy	<ul style="list-style-type: none"> • Introducing Group Policy • Implementing and administering GPOs • Group Policy scope and Group Policy processing • Troubleshooting the application of GPOs 	Theory and Lecture	
	Summary challenge advance lap for Management AD DS and Group Policy management	<p>Lab 1</p> <ul style="list-style-type: none"> - Implementing forest trusts - Implementing child domains in AD DS <p>Lab 2</p> <ul style="list-style-type: none"> - Modifying the default site - Creating additional sites and subnets - Configuring AD DS replication - Monitoring and troubleshooting AD DS replication <p>Lab 3</p> <ul style="list-style-type: none"> - Creating and configuring GPOs - Managing GPO scope - Verify GPO application - Troubleshooting GPOs 	<p>(Lab 1 to 3)</p> <p>Real Device</p> <p>Catalyst 3560-CX 1 Unit Cisco UCS Server C-Series ESXi 6.5 trial version VMWare vSphere Windows server 2016 trial version</p>	

Day 3

Item	Subject	Details	Trainee Lab and devices	Workgroup Lab and devices
6	Managing user settings with Group Policy	<ul style="list-style-type: none"> Implementing administrative templates Configuring Folder Redirection, software installation, and scripts Configuring Group Policy preferences 	Theory and Lecture	
Break				
7	Securing Active Directory Domain Services	<ul style="list-style-type: none"> Securing domain controllers Implementing account security Implementing audit authentication Configuring managed service accounts 	Theory and Lecture	
8	Deploying and managing AD CS	<ul style="list-style-type: none"> Deploying CAs Administering CAs Troubleshooting and maintaining CAs 	Theory and Lecture	
	Summary challenge advance lab for Manage user with GPO , Securing AD DS and Deploying and configuring a two-tier CA hierarchy	<p>Lab 1</p> <ul style="list-style-type: none"> - Using administrative templates to manage user settings - Implement settings by using Group Policy preferences - Configuring Folder Redirection - Planning Group Policy (optional) <p>Lab 2</p> <ul style="list-style-type: none"> - Implementing security policies for accounts, passwords, and administrative groups - Deploying and configuring an RODC - Creating and associating a group MSA <p>Lab 3</p> <ul style="list-style-type: none"> - Deploying an offline root CA - Deploying an enterprise subordinate CA 	<p>(Lab 1 to 3)</p> <p>Real Device</p> <p>Catalyst 3560-CX 1 Unit Cisco UCS Server C-Series ESXi 6.5 trial version VMWare vSphere Windows server 2016 trial version</p>	

Day 4

Item	Subject	Details	Trainee Lab and devices	Workgroup Lab and devices
9	Deploying and managing certificates	<ul style="list-style-type: none"> Deploying and managing certificate templates Managing certificate deployment, revocation, and recovery Using certificates in a business environment Implementing and managing smart cards 	Theory and Lecture	
Break				
10	Implementing and administering AD FS	<ul style="list-style-type: none"> Overview of AD FS AD FS requirements and planning Deploying and configuring AD FS Overview of Web Application Proxy 	Theory and Lecture	
11	Implementing and administering AD RMS	<ul style="list-style-type: none"> Overview of AD RMS Deploying and managing an AD RMS infrastructure Configuring AD RMS content protection 	Theory and Lecture	
	Summary challenge advance lap for Deploying and using certificates and Implementing AD FS, AD RMS	<p>Lab 1</p> <ul style="list-style-type: none"> - Configuring certificate templates - Enrolling and using certificates - Configuring and implementing key recovery <p>Lab 2</p> <ul style="list-style-type: none"> - Configuring AD FS prerequisites - Installing and configuring AD FS - Configuring an internal application for AD - Configuring AD FS for federated business partners <p>Lab 3</p> <ul style="list-style-type: none"> - Installing and configuring AD RMS - Configuring AD RMS templates - Using AD RMS on clients 	<p>(Lab 1 to 3)</p> <p>Real Device</p> <p>Catalyst 3560-CX 1 Unit Cisco UCS Server C-Series ESXi 6.5 trial version VMWare vSphere Windows server 2016 trial version</p>	

Day 5

Item	Subject	Details	Trainee Lab and devices	Workgroup Lab and devices
12	Implementing AD DS synchronization with Microsoft Azure AD	<ul style="list-style-type: none">• Planning and preparing for directory synchronization• Implementing directory synchronization by using Azure AD Connect• Managing identities with directory synchronization	Theory and Lecture	
Break				
13	Monitoring, managing, and recovering AD DS	<ul style="list-style-type: none">• Monitoring AD DS• Managing the Active Directory database• Active Directory backup and recovery options for AD DS and other identity and access solutions	Theory and Lecture	
	Summary challenge advance lap for Configuring directory synchronization and recovery AD DS	Lab 1 - Preparing for directory synchronization - Configuring directory synchronization - Managing Active Directory users and groups Lab 2 - Backing up and restoring AD DS - Recovering objects in AD DS	(Lab 1 to 2) Real Device Catalyst 3560-CX 1 Unit Cisco UCS Server C-Series ESXi 6.5 trial version VMWare vSphere Windows server 2016 trial version	

Course Post-Test

Not Required

Course Materials

Not include in this class training (but you can requested from sale team)

Course Devices Training (Per 1 Person)



Cisco Server UCS C-Series



Cisco Catalyst 3560-CX



Storage QNAP

