

MOC On-Demand: Identity with Windows Server 2016 (20742) H6LA8S

HPE course number	H6LA8S
Course length	13 Hours
Delivery mode	On-Demand
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*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, October 2017

This course teaches IT professionals 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).

Order details

- MS Order-ID: Q4P-00313
- MOD Duration: 180 day
- Digital MOC included

Audience

This course is primarily intended for existing IT professionals who have some AD DS knowledge and experience, and who aim to develop knowledge about identity and access technologies in Windows Server 2016. This would typically include:

- AD DS administrators who are looking to train in identity and access technologies with Windows Server 2012 or Windows Server 2016
- System or infrastructure administrators with general AD DS experience and knowledge who are looking to cross-train in core and advanced identity and access technologies in Windows Server 2012 or Windows Server 2016

Prerequisites

Before attending this course, students must have:

- 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 objectives

After completing this course, students will be able to:

- Plan and implement an IPv4 network
- 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

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Detailed On-Demand outline

Module 1: Installing and configuring domain controllers	<ul style="list-style-type: none"> • Overview of AD DS • Overview of AD DS domain controllers 	<ul style="list-style-type: none"> • Deploying a domain controller
Module 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 	<ul style="list-style-type: none"> • Using Windows PowerShell for AD DS administration • Implementing and managing OUs
Module 3: Advanced AD DS infrastructure management	<ul style="list-style-type: none"> • Overview of advanced AD DS deployments • Deploying a distributed AD DS environment 	<ul style="list-style-type: none"> • Configuring AD DS trusts
Module 4: Implementing and administering AD DS sites and replication	<ul style="list-style-type: none"> • Overview of AD DS replication • Configuring AD DS sites 	<ul style="list-style-type: none"> • Configuring and monitoring AD DS replication
Module 5: Implementing Group Policy	<ul style="list-style-type: none"> • Introducing Group Policy • Implementing and administering GPOs 	<ul style="list-style-type: none"> • Group Policy scope and Group Policy processing • Troubleshooting the application of GPOs
Module 6: Managing user settings with Group Policy	<ul style="list-style-type: none"> • Implementing administrative templates • Configuring folder redirection, software installation, and scripts 	<ul style="list-style-type: none"> • Configuring Group Policy preferences
Module 7: Securing Active Directory Domain Services	<ul style="list-style-type: none"> • Securing domain controllers • Implementing account security 	<ul style="list-style-type: none"> • Implementing audit authentication • Configuring managed service accounts
Module 8: Deploying and managing AD CS	<ul style="list-style-type: none"> • Deploying CAs • Administering CAs 	<ul style="list-style-type: none"> • Troubleshooting and maintaining CAs
Module 9: Deploying and managing certificates	<ul style="list-style-type: none"> • Deploying and managing certificate templates • Managing certificate deployment, revocation, and recovery 	<ul style="list-style-type: none"> • Using certificates in a business environment • Implementing and managing smart cards
Module 10: Implementing and administering AD FS	<ul style="list-style-type: none"> • Overview of AD FS • AD FS requirements and planning 	<ul style="list-style-type: none"> • Deploying and configuring AD FS • Overview of Web Application Proxy
Module 11: Implementing and administering AD RMS	<ul style="list-style-type: none"> • Overview of AD RMS • Deploying and managing an AD RMS infrastructure 	<ul style="list-style-type: none"> • Configuring AD RMS content protection
Module 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 	<ul style="list-style-type: none"> • Managing identities with directory synchronization
Module 13: Monitoring, managing, and recovering AD DS	<ul style="list-style-type: none"> • Monitoring AD DS • Managing the Active Directory database 	<ul style="list-style-type: none"> • Active Directory backup and recovery options for AD DS and other identity and access solutions

Detailed On-Demand Lab outline

Lab 1: Deploying and administering AD DS	<ul style="list-style-type: none"> Deploying AD DS Deploying domain controllers by performing domain controller cloning 	<ul style="list-style-type: none"> Administering AD DS
Lab 2-A: Managing AD DS objects	<ul style="list-style-type: none"> Creating and managing groups in AD DS Creating and configuring user accounts in AD DS 	<ul style="list-style-type: none"> Managing computer objects in AD DS
Lab 2-B: Administering AD DS	<ul style="list-style-type: none"> Delegate administration for OUs 	<ul style="list-style-type: none"> Creating and modifying AD DS objects with Windows PowerShell
Lab 3: Domain and trust management in AD DS	<ul style="list-style-type: none"> Implementing forest trusts 	<ul style="list-style-type: none"> Implementing child domains in AD DS
Lab 4: Implementing AD DS sites and replication	<ul style="list-style-type: none"> Modifying the default site Creating additional sites and subnets 	<ul style="list-style-type: none"> Configuring AD DS replication Monitoring and troubleshooting AD DS replication
Lab 5-A: Implementing a Group Policy infrastructure	<ul style="list-style-type: none"> Creating and configuring GPOs 	<ul style="list-style-type: none"> Managing GPO scope
Lab 5-B: Troubleshooting Group Policy infrastructure	<ul style="list-style-type: none"> Verify GPO application 	<ul style="list-style-type: none"> Troubleshooting GPOs
Lab 6: Managing user settings with GPOs	<ul style="list-style-type: none"> Using administrative templates to manage user settings Implement settings by using Group Policy preferences 	<ul style="list-style-type: none"> Configuring Folder Redirection Planning Group Policy (optional)
Lab 7: Securing AD DS	<ul style="list-style-type: none"> Implementing security policies for accounts, passwords, and administrative groups Deploying and configuring an RODC 	<ul style="list-style-type: none"> Creating and associating a group MSA
Lab 8: Deploying and configuring a two-tier CA hierarchy	<ul style="list-style-type: none"> Deploying an offline root CA 	<ul style="list-style-type: none"> Deploying an enterprise subordinate CA
Lab 9: Deploying and using certificates	<ul style="list-style-type: none"> Configuring certificate templates Enrolling and using certificates 	<ul style="list-style-type: none"> Configuring and implementing key recovery
Lab 10: Implementing AD FS	<ul style="list-style-type: none"> Configuring AD FS prerequisites Installing and configuring AD FS 	<ul style="list-style-type: none"> Configuring an internal application for AD Configuring AD FS for federated business partners
Lab 11: Implementing an AD RMS infrastructure	<ul style="list-style-type: none"> Installing and configuring AD RMS Configuring AD RMS templates 	<ul style="list-style-type: none"> Using AD RMS on clients
Lab 12: Configuring directory synchronization	<ul style="list-style-type: none"> Preparing for directory synchronization Configuring directory synchronization 	<ul style="list-style-type: none"> Managing Active Directory users and groups
Lab 13: Recovering objects in AD DS	<ul style="list-style-type: none"> Backing up and restoring AD DS 	<ul style="list-style-type: none"> Recovering objects in AD DS

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