

HP Education Services

20412D - Configuring Advanced Windows Server 2012



Get hands-on instruction and practice configuring advanced Windows Server 2012, including Windows Server 2012 R2, services in this five-day Microsoft Official Course. This course is part three in a series of three courses that provides the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment.

The three courses collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. Although there is some cross-over of skills and tasks across these courses, this course focuses on advanced configuration of services necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as advanced networking services, Active Directory Domain Services (AD DS), Active Directory Rights Management Services (AD RMS), Active Directory Federation Services (AD FS), Network Load Balancing, Failover Clustering, business continuity and disaster recovery services as well as access and information provisioning and protection technologies such as Dynamic Access Control (DAC), and Web Application Proxy integration with AD FS and Workplace Join.

This course maps directly to and is the preferred choice for hands-on preparation for Microsoft Certified Solutions Associate (MCSA): Exam 412: Configuring Advanced Windows Server 2012 Services, which is the third of three exams required for MCSA: Windows Server 2012 credential.

Note: Labs in this course are based on the General Availability release of Windows Server 2012 R2 and Windows 8.1.

Audience

This course is intended for IT Professionals who are experienced implementing, managing and maintaining a Windows Server 2008, Windows Server 2008 R2 or Windows Server 2012 infrastructure in an existing Enterprise environment, and wish to acquire the skills and knowledge necessary to carry out advanced management and provisioning of services within that Windows Server 2012 environment. Students would typically be very experienced System Administrators and should have hands on experience working in a Windows Server 2008, Windows Server 2008 R2 or Windows Server 2012 environment.

A secondary audience for this course will be candidates looking to take Exam 70-412: Configuring Advanced Windows Server 2012 Services, or are aspiring to acquire the Microsoft Certified Solutions Associate (MCSA) credential, either in its own right, or in order to proceed in acquiring the Microsoft Certified Solutions Expert (MCSE) credentials, for which the MCSA credential is a pre-requisite.

Real world experience Implementing, Managing and Configuring Active Directory and Networking infrastructure Knowledge equivalent to the learning's covered in "20410A: Installing and Configuring Windows Server 2012" and "20411A: Administering Windows Server 2012" courses, as this course will build upon that knowledge

Prerequisites

Before attending this course, students must have:

- Real world, hands on experience working in a Windows Server 2008, Windows Server 2008 R2 or Windows Server 2012 Enterprise environment.
- Real world experience Implementing, Managing and Configuring Active Directory and Networking infrastructure
- Knowledge equivalent to the learning's covered in "20410A: Installing and Configuring Windows Server 2012" and "20411A: Administering Windows Server 2012" courses, as this course will build upon that knowledge

Course objectives

After completing this course, students will be able to:

- Implementing Advanced Network Services
- Implementing Advanced File Services
- Implementing Dynamic Access Control
- Implementing Network Load Balancing
- Implementing Failover Clustering
- Implementing Failover Clustering with Hyper-V
- Implementing Disaster Recovery
- Implementing Distributed AD DS Deployments
- Implementing AD DS Sites and Replication
- Implementing AD CS
- Implementing AD RMS
- Implementing AD FS

Course title:	20412D - Configuring Advanced Windows Server 2012
HP product number:	H4D025
Category/Subcategory:	Microsoft
Course length:	5 days
Delivery language:	English

Detailed course outline

- **Module 1: Implementing Advanced Network Services** : This module covers configuring advanced features in DNS and DHCP with Windows Server 2012 as well as covering IP Address management (IPAM)
- **Module 2: Implementing Advanced File Services** : This module will cover learning how to configure and manage iSCSI and BranchCache as well as Implementing Windows 2012 features that optimize storage utilization such as File Server Resource Manager, File classification and Data Deduplication
- **Module 3: Implementing Dynamic Access Control** : This module covers planning and implementing Dynamic Access Control (DAC)
- **Module 4: Implementing Network Load Balancing** : This module covers how to plan and implement Network Load Balancing (NLB). It will cover managing and configuring an NLB cluster and validating High Availability for an NLB cluster
- **Module 5: Implementing Failover Clustering** : This module covers the Failover Clustering features in Windows Server 2012. It will cover how to implementing Failover Cluster, Configuring highly available applications and services on a failover cluster and how to how to maintain Failover Cluster and how to use new maintenance features such as Cluster Aware Updating (CAU). It will also cover how to implement multi-site failover cluster.
- **Module 6: Implementing Failover Clustering with Hyper-V** : This module will cover the options for making virtual machines highly available. It will cover how to implement virtual machines in failover cluster deployed on host, options for moving virtual machine or its storage and Provide high level overview about System Center Virtual Machine Manager (SCVMM) 2012
- **Module 7: Implementing Disaster Recovery** : This module covers considerations that must be included when you are implementing a disaster recovery solution, how to Plan and implement a backup solution for Windows Server 2012, Plan and implement server and data recovery using Windows Server Backup and Microsoft Online Backup
- **Module 8: Implementing Distributed AD DS Deployments** : This module will cover the components of a highly complex AD DS deployment such as Implementing a distributed AD DS deployment and Configuring AD DS Forest trusts

- **Module 9: Implementing AD DS Sites and Replication** : This module covers how replication works in a Windows Server 2012 AD DS environment. It will include configuring AD DS sites in order to optimize AD DS network traffic and configuring and monitor AD DS replication.
- **Module 10: Implementing AD CS** : This module covers Describe the Public Key Infrastructure (PKI) components and concepts. It covers implementing a certification authority infrastructure, Planning and implementing a certificate template deployment using an AD CS certification authority and Planning and implementing certificate distribution and revocation
- **Module 11: Implementing AD RMS** : This module covers features and functionality of Active Directory Rights Management Service (AD RMS). It will outline how it can be used to achieve content protection, Deploying and managing an AD RMS infrastructure and Configuring content protection using AD RMS
- **Module 12: Implementing AD FS** : this module covers detailing identity federation business scenarios and how AD FS can be used to address such scenarios. It will cover Configuring the AD FS prerequisites and deploying the AD FS services, Implementing AD FS to enable SSO in a single organization, and Implementing AD FS to enable SSO between federated partners

Why education services from HP?

- Recognized as an IDC MarketScape leader for IT education (IDC MarketScape: Worldwide IT Education and Training 2012 Vendor Analysis, doc #232870, February 2012)
- Unmatched technical expertise and support for HP products and technologies
- Comprehensive curriculum of job-specific training leading to vendor certification
- Training you need, when and where you need it with our Remotely Assisted Instructional Learning (RAIL)
- More than 30 years of Education Consulting
- Global training with more than 90 training locations worldwide
- Award winning virtual classrooms and virtual labs for a real hands-on experience

For more information

To locate contact information and to learn more about education services, please visit our web site at <http://www.hp.com.au/education> .

