Windows Server 2016 First Look Clinic - MOC On Demand (MS-40389)

Modality: On Demand

Duration: 0.5 Days

About this course:

This official Microsoft On Demand course has been designed to teach you on the topics of installing and configuring Windows Server 2012 and Windows Server 2012 R2. This course forms part of a three-part series which will provide you with the relevant professional-level training for constructing a fundamental infrastructure in an existing enterprise environment with Windows Server 2012. The entire three-part series covers the concepts of constructing, regulating, maintaining, and delivering services and infrastructure in the environment of Windows Server 2012. Alongside covering different cross-curricular capabilities and tasks in the series, the course has its focus on the fundamental set-up and configuration of key services such as Networking, Storage, Active Directory Domain Services (AD DS), Group Policy, File and Printer Services, and Hyper-V. By taking this course, you will immediately be taken to the Microsoft Certified Solutions Associate (MCSA) Examen 410: Installing and Configuring Windows Server 2012 and you will be provided with the benefit of preparing in the best way possible for the exam. The 410 exam is the first of three exams needed for the MCSA: Windows Server 2012 certification. The labs in this course providing hands-on exercises for learning are based on Windows Server 2012 R2 and Windows 8.1

On average, an IT Professional earns $97,895 per annum.

Learning objectives:

The course has the following learning objectives:

- Installing and configuring Windows Server 2012
- Explaining AD DS
- Regulating Active Directory components
- Computerizing the Active Directory administration procedure
- Enforcing IPv4.
- Enforcing Dynamic Host Configuration Protocol (DHCP)
- Enforcing Domain Name System (DNS)
- Enforcing IPv6
- Enforcing local storage
- Enforcing file and print services in the system
- Enforcing Group Policy in the system
- Protecting Windows servers by utilizing Group Policy Objects (GPOs)
- Enforcing server virtualization by utilizing Hyper-V

Audience:

This course has been designed for and is suitable for IT professionals who are already experienced in operating Windows operating systems, and now want to gain important knowledge of aspects for

installing and configuring a Windows Server 2012 or Windows Server 2012 R2 in an existing Windows Server environment. The course is typically suitable for following groups:

- Windows Server administrators: those who do not have a lot of background information in Windows server administration and all the related technologies, and those who intend to know more about Windows Server 2012 and Windows Server 2012 R2
- IT professionals: those who already have sufficient knowledge of Microsoft technologies and intend to continue their education in the field of Windows Server 2012 and Windows Server 2012 R2
- IT Professionals: those who wish to take the Microsoft Certified Solutions Associate (MCSA) Examen 410: Installing and Configuring Windows Server 2012
- Those IT professionals who wish to take the Microsoft Certified Solutions Expert (MCSE) exams in the areas of DataCenter, Dekstop Infrastructure, Messaging, Collaboration, and Communication. This course is highly suitable for those who want to get adequate preparation for the Microsoft Certified Solutions Associate (MCSA) exams

Requirements:

Even though the course does not list any particular requirements, learners will reap the benefits of this course fully if they have experience in the following fields:

- Windows Server 2012 & 2012 R2
- AD DS
- Storage configuration in an organization
- Regulating an organization's network
- Virtual machines & clustering

Course Outline:

Module 1: What's New in Compute

In this module, we explore all of the new features related to Compute in Windows Server 2016 Technical Preview. Specifically, we focus on Nano Server, Hyper-V, Windows Server and Hyper-V Containers, and management features.

Lessons

- Introducing Windows Server 2016
- Introducing Nano Server
- New Features of Hyper-V in Windows Server 2016
- Introducing Windows Server and Hyper-V Containers
- Windows Server 2016 Management

After completing this module, you will be able to:

- Describe Nano Server and how to manage it.
- Describe Windows Server and Hyper-V containers
- Describe the new features in Hyper-V

- Describe the new features in Management
- List the installation options for Windows Server 2016

Module 2: What's New in Identity

Windows Server 2016 has many new features in Identity to improve the ability for organizations to secure Active Directory environments and help them migrate to cloud-only deployments and hybrid deployments, where some applications and services are hosted in the cloud and others are hosted on premises. This module introduces you to those improvements.

Lessons

- What's new in Active Directory Domain Services (AD DS)
- Active Directory Federation Services (AD FS) improvements

After completing this module, you will be able to:

- List and describe the new features available for AD FS
- List and describe the new features available for AD DS

Module 3: What?s new in File and Storage Services

The introduction of Windows Server 2016 Technical Preview brings with it several new storage capabilities to the platform for the IT professional to design, deploy, and maintain Windows Server storage. This module provides an overview of some of the new features and improvements in storage.

Lessons

- Storage Spaces Direct
- Storage Replica
- Storage QoS

After completing this module, you will be able to:

- Describe Storage Spaces Direct
- Describe Storage Replica
- Describe Storage QoS

Module 4: What?s New in Networking

Networking improvements include new features and enhancements that make flexible workload placement and mobility possible. Organizations need flexibility, reliability, high levels of performance, and a focus on applications and workloads. To meet these needs, Windows Server 2016 delivers enhancements in the reliability, performance, and interoperability of virtual networking; improved support for centralized configuration and management across virtual and physical networks; new virtualized network functions for transforming the network cloud; and seamless datacenter extensions for flexible workload placement and mobility. this module covers the new networking features in

Windows server 2016.

Lessons

- Software Defined Networking
- Windows Server networking technologies
- Networking Services

After completing this module, you will be able to:

- Describe Software Defined Networking
- List and describe the Windows Server technologies for SDN
- List and describe other new and improved networking services