

WorkshopPlus: Windows Server 2012 R2 Capabilities, Administration & Support



Overview

Target Audience:

IT Professionals and consultants implementing or supporting Windows Server 2012 R2.

Prerequisites:

Attendees should be experienced users of previous versions of Windows Server. Previous experience with Windows Server 2012 is not required.

Content Level:

The intent of this is to deliver a breadth of information and hands-on experience to familiarize the learner with the scope of changes in Windows Server 2012 R2.

This course introduces the learner to new functionality and features of Windows Server 2012 R2 across the major support areas of Deployment, Activation & Servicing, Networking, Active Directory & Federation Services, Networking and Hyper-V, Failover Clustering and Storage. Hands-on labs provides a simulated environment to learn the new features and concepts covered in the course. Participants will learn the fundamental steps for configuring Windows Server 2012 R2 environment and gain experience with its technical capabilities.

How the Offering Works

WorkshopPlus Windows Server 2012 R2 Capabilities, Administration and Support is 4 day (32 Hour) instructor-led workshop. The workshop may be delivered in-person in a traditional classroom environment using a hosted server solution, or Classroom-In-A-Box hardware. The workshop can also be delivered via virtual instructor-led experience with hosted servers using Lync.

Key Features and Benefits

- Course will provide a broad overview of the top support topics and features of the new WS2012 R2 release.
- Course provides technical understanding of concepts and technology and key new features of Windows Server 2012 R2.
- Attendees will learn to set-up and configure and work with new features in Windows Server 2012 R2.

Technical Highlights

After completing this course, you will be able to:

- Perform Delta Compression
- Configure Secure boot in a VM
- Understand group policy and work folders
- Understand Software Defined Networking, infrastructure services, and remote access.
- Deploy Guest Cluster on Hyper-V using shared virtual disks.

Syllabus

Hardware Requirements:

Pentium IV or equivalent computer with process speed greater than or equal to 2.4 GHz.

Minimum of 2GB RAM

Monitor resolution 1024X768. Dual Monitors Strongly Recommended

Windows Vista or later Operating System

Internet Explorer 9 preferred with the latest version of Silverlight installed

Internet Connection Recommendation 5MB/s Download & 0.5 MB/s Upload.

This workshop runs for 4 full days. Students should anticipate consistent start and end times for each day. Early departure on any day is not recommended.

This course consists of 9 modules covering the topics below.

Course Introduction: Provides an overview of changes in Windows Server 2012 & Windows Server 2012 R2 across the following support areas: Networking, Hyper-V, Clustering & Storage, Work Folders, Set-up, Activation and Servicing, and more. This day will also cover Server Manager and PowerShell to build foundation knowledge for the class.

PowerShell Introduction: Provides an introduction to PowerShell, essential cmdlets and new features in 3.0 and 4.0.

Storage and File System: This module covers NTFS, SMB 3.0, SMB Multi-channel, and Storage spaces including capabilities, resiliency and storage tiers.

Storage and iSCSI: An introduction to iSCSI target server and improvements this module also includes work folders, offloaded data transfer, and managing storage.

Hyper-V: The Hyper-V module provides a feature comparison between Windows 2008 R2 2012/R2, dynamic memory, Hyper-V networking features, generation 2 VMs, live migration, dynamic memory and more.

Active Directory: This module covers the Active Directory Server Manager, Dynamic Access Control, Virtualized Domain Controller, and Fine-grained Password policy configuration and management.

Networking : This module focuses on software defined networking, infrastructure services and remote access, including IPAM, NIC Teaming, SMB 3.0 File Share Implementation and DNSSEC

High Availability: Storage Layer Availability, Network & Virtualization availability and failover clustering. Failover clustering also features Scale Out File Server, AD Dependency, and Cluster logging for support.

Remote Desktop Services: This module offers an introduction to remote desktop services, performance, management and new features.