

# Windows Server 2012/2012 R2: Active Directory Domain Services



## WorkshopPLUS

### **Target Audience:**

*This WorkshopPLUS is an advanced course about Windows Server 2012 and 2012 R2 Active Directory Domain Services (AD DS). This course is only targeted at senior IT staff who have deployed, administered, and managed an Active Directory forest infrastructure for at least one full year.*

*The basic concepts and know-how of the product will not be covered in this course, and it is expected that participants must already possess that knowledge.*

## Overview

The Windows Server 2012/2012 R2 Active Directory Domain Services WorkshopPLUS introduces new features from Windows Server 2012 and Windows Server 2012 R2 that improve ease of management and deployment. This WorkshopPLUS also discusses new features for managing service accounts, group policies and new access control capabilities leveraging Dynamic Access Control.

### Key Features and Benefits

- Exercise on upgrading a Windows Server 2008 R2 forest with a trust to a Windows Server 2012 R2 forest.
- Extensive hands-on labs and presentations introducing new features related to Domain Services in Windows Server 2012 and Windows Server 2012 R2 operating system.

### Technical Highlights

After completing this WorkshopPLUS, you will be able to utilize:

- New Server Manager
- New Promotion/Demotion processes
- New Virtualization
- New and improved group Managed Service Accounts
- New features for Kerberos
- New Dynamic Access Control
- Changes in Group Policy
- Enhancements in Windows Server 2012 R2 AD DS

# Syllabus

## **Hardware**

### **Requirements:**

- *Windows Server 2012 R2 or Windows 8.1 Pro operating system with Hyper-V*
- *16 GB of RAM*
- *250 GB hard disk space, 7200 RPM speed (minimum 120 GB available)*
- *16 MB video adapter (32 MB recommended)*

This workshop *PLUS* runs for four full days. Participants should anticipate consistent start and end times for each day. Early departure on any day is not recommended.

### **Module 1: Deployment and Administration**

- Upgrading existing Windows Server 2008 R2 domain to Windows Server 2012 R2
- Exploring new features in Server Manager
- Promotion/Demotion of Windows Server 2012 R2 Domain Controllers
- Windows PowerShell
- Server monitoring
- Changes to Relative ID (RID) management

### **Module 2: Virtualized Domain Controllers**

- How to clone existing virtual domain controllers
- Safe restore features for virtual domain controllers.

### **Module 3: Group Managed Service Accounts (GMSA)**

This module discusses the following:

- Introduction to GMSA feature including setup and use
- Improved over legacy Managed Service Account.

### **Module 4: Authorization**

- Refreshing Kerberos knowledge
- Introduction to Kerberos armoring, and token compression
- Changes to Kerberos implementation
- Disabling cross-domain unconstrained Kerberos delegation

### **Module 5: Dynamic Access Control**

- Introduction to setup and use of Windows authorization claims including claim creation, resource management, and new access control user interface using conditions

### **Module 6: Group Policy Objects (GPOs)**

- Introduction to new features with GPOs with reporting, Resultant Set of Policy (RSOP), and remote GPO refresh

### **Module 7: Enhancements in Windows Server 2012 R2 AD DS**

- Updates to the components in Windows Server 2012 R2 AD DS
- New GPO functionality
- The enhancements in Distributed File System replication (DFSR) and introduction to the new Work Folders feature