

50604B: Windows Server 2012 Workshop for IT Professionals

Course Details

Course Outline

1. Module 1: Overview about the new features of Windows Server 8

- Requirements, Installation and Multi-Server Management
- Configuring Core Network infrastructure services
- Windows Server 8 File and storage services
- Exploring Windows Server 8 Hyper-V vNext
- Windows Server 8 Remote Desktop Services
- Exploring Windows Server 8 Active Directory
- Claims-based access control with dynamic access control
- Windows Server 8 Unified Remote Access (Direct Access and NAP)
- Group Policy in Windows Server 8
- Automating Windows Server 8 with PowerShell 3.0

2. Module 2: Requirements, Installation and Multi-Server Management Tasks

- Overview about Windows Server 8 multi-server management features
- PowerShell 3.0 and WMI
- Multi-Server Management with PowerShell 3.0
- Working with the Server Manager Dashboard of Windows Server 8
- Scenario-Based Deployment of Server Roles and Features

3. Module 3: Core Network infrastructure services

- Overview about Windows Server 8 core networking services enhancements
- Centralized Management of DNS and DHCP with IPAM
- Automatically zone signing with DNSSEC (NSEC3)
- DNS- and DHCP PowerShell 3.0 cmdlets
- DHCP hot standby failover
- DHCP active/active load balancing
- DHCP policy-based assignment

4. Module 4: Windows Server 8 File and storage services

- Overview about Windows Server 8 File server and storage management enhancements
- ReFS - the new file system

- Storage spaces
- DFS-N and DFS-R
- SMB 2.2
- De-duplication
- Branch Cache

5. Module 5: Exploring Windows Server 8 Hyper-V

- Overview about the new features of Windows Server 8 Hyper-V
- Using Windows Server 8 Hyper-V in the cloud
- Hyper-V Performance and scale
- Hyper-V Host improvements
- Hyper-V Virtual machine improvements
- Hyper-V Networking improvements
- Hyper-V Clustering improvements
- Hyper-V Storage improvements
- Hyper-V Management improvements
- Hyper-V HA and Data improvements
- Overview about using SCVMM 2012

6. Module 6: Unified remote access in Windows Server 8

- Overview about unified remote access in Windows Server 8
- Key components of Windows Server 8 Direct Access
- How to setup and configure Windows Server 8 Direct Access with the Direct Access and Remote access services configuration wizard in an edge topology scenario
- Determine the PowerShell cmdlets behind the setup of Windows Server 8 Direct Access (InstallRemoteAccess, SetRemoteAccess, SetDAClientExperienceSettings)
- Using Windows Server 8 Direct Access entry points
- Advanced monitoring of Windows Server 8 direct access connections

7. Module 7: Exploring Windows Server 8 Active Directory

- Overview about Windows Server 8 Active Directory improvements
- Improved Active Directory Administrative Center (ADAC) of Windows Server 8
- Remote dcpromo and dcpromo built-in troubleshooting
- Active Directory snapshot
- DC-cloning with the use of virtualization
- LDAP-based AD-integrated product activation

8. Module 8: Claims-based access control with dynamic access control

- Overview about claims-based access control with Dynamic Access Control
- Overview about Windows Server 8 File Classification Infrastructure
- Active Directory integration of Dynamic Access Control and File classification Service
- Windows Server 8 central access and audit policies
- Windows 8 user- and device claims
- Classifications and expression-based ACLs

9. Module 9: Windows Server 8 Remote Desktop Services

- Overview about what's new in Windows Server 8 Remote Desktop Services
- Windows Server 8 Remote Desktop Session Host and Gateway
- Windows Server 8 Remote Desktop Web Access
- Windows Server 8 Remote Desktop Session Broker
- Windows 8 Metro Style Remote Desktop App
- How Windows Server 8 supports RDP 8.0
- RemoteFX for WAN
- RemoteFX adaptive graphics
- RemoteFX media remoting
- RemoteFX multi-touch
- RemoteFX USB-redirection
- Choice of software or physical GPU
- Availability for sessions, VMs and physical machines
- Ubiquitous access

10. Module 10: Group Policy in Windows Server 8

- Overview about Windows Server 8 group policy
- Group Policy infrastructure status
- Centralized group policy update
- Group policy preference settings for Internet Explorer 9
- New group policy ADMX-templates
- Learn about 100 new group policy settings

11. Module 11: Automating Windows Server 8 with PowerShell 3.0

- Overview about new possibilities of PowerShell in Windows Server 8
- Enhanced PowerShell ISE
- New integrated PowerShell Modules

- Using PowerShell Web Access for administrative tasks
- Managing Windows Server 8 with PowerShell 3.0 workflows
- Important new PowerShell 3.0 cmdlets