Microsoft Desktop, Part 8 of 8: Security and Infrastructure

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Prerequisites: The course assumes that students have some familiarity with Microsoft Windows, basic networking concepts, and a fundamental understanding of computer hardware.

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Course description: Key threats from the desktop end points of data leakage, misuse of software licenses, unprotected devices and improper configuration of privileges are key threats to an enterprise infrastructure. Microsoft offers a wide variety of security options to protect enterprise desktop endpoints from these threats. On the other hand, a desktop infrastructure has various functionalities that enable the smooth functioning of the system. These include the update infrastructure, virtual desktop infrastructure and the virtual desktop, or VD, collection. Through this course we will get familiar with managing desktop security options that we can use to protect desktop systems from malicious data access and malware threats. We will also ensure the smooth functioning of the systems by designing an update infrastructure and installing required updates using the Windows Server Update services, or WSUS.

Course outline:

Advanced Auditing
- Introduction
- Advanced Auditing
- UAC
- Device Restriction Policies
- Demo: Advanced Auditing
- Summary

Endpoint Protection
- Introduction
- Implement Endpoint Protection
- Endpoint Protection Features
- Endpoint Protection Alerts
- Client Settings
- Demo: Endpoint Protection Set-Up
- Demo: Client Settings
- Demo: Create Automatic Rule
- Demo: Deployment Package
- Summary

Anti Malware Protection
- Introduction
- Anti-MalwareProtectionPolicies
- Demo: Anti-Malware Protection
- Summary

System Center 2012 DPM
- Introduction
- System Center 2012 DPM
- Demo: DPM Setup
- Demo: DPM Alerts
- Demo: Operations Manager
- Summary

Bit Locker
- Introduction
- BitLocker
- BitLocker Modes
- BitLocker Recovery Key
- Demo: Enable BitLocker
- Demo: New Drive
- Demo: BitLocker
- Summary

Removable Media
- Introduction
- Removable Media Restrictions
- Demo: Removable Media Rules
- Summary

Encrypting File System
- Introduction
- EFS
- Centrally Managed EFS Solutions
- Demo: EFS Folder
- Demo: EFS Certificates
- Summary

Windows Update Infrastructure
- Introduction
- WSUS
- VM Pool Patching
- VM Manager Integration
- WSUS and SCCM Integration
- Multi-Tier WSUS
- Replica WSUS Servers
- Windows Intune
- UpdateInfrastructureGuidelines
- Demo: Updates with SCCM
- Summary

Monitor Virtual Infrastructure
- Introduction
- VDI
- RDS Servers
- RDS Capacity Analysis
- Bottleneck Remediation
- VM Guests
- Health Monitoring
- RD Session Host Server
- Re-Direction Modes
- VDI Performance Factors
- Demo: RDS Monitoring
- Demo: VDI Monitoring
- Summary

Manage Virtual Collections
- Introduction
- Pooled VD Collection
- Personal VD Collection
- Managed Collection
- Unmanaged Collection
- Demo: Monitor VDs
- Summary