



Outlined below is the Server Academy course curriculum as of May 13 2020.

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## Module 1: How to Build a Virtual IT Lab

### 1.1 Welcome to The Course!

1.1.1 Welcome to The Course

1.1.2 Student Survey

### 1.2 On Premises Lab Setup (VirtualBox)

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1.2.3 Creating a Virtual Network with VirtualBox

1.2.4 How to Create Virtual Machines with VirtualBox

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### 1.3 Off-Premises AWS Lab Setup

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1.3.3 Creating an AWS EC2 Instance

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## **1.4 (Optional) Create a Hyper-V IT Lab**

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1.4.3 Creating and Managing Hyper-V VMs

1.4.4 Creating a Hyper-V NAT Network

## **1.5 Free Off-Premises Microsoft Lab (Bonus)**

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## **1.6 Practice Designing Networks with PacketTracer**

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1.6.2 Downloading and Installing Packet Tracer

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## **1.7 Course Conclusion**

1.7.1 Tell me What You Want to Learn!

1.7.2 Get Access to The Windows Admin Bootcamp

1.7.3 Submit a Testimonial and be Featured on My Website!

## **Module 2: Installing and Administrating Windows Server**

### **2.1 Course Introduction**

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2.1.2 Course Introduction

2.1.3 How to Take This Course

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2.1.5 Student Survey

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- 2.2.2 How to Download Windows Server
- 2.2.3 Understanding the different versions of Windows Server
- 2.2.4 Different Versions of Windows Server (PowerPoint Download)
- 2.2.5 Installing Windows Server
- 2.2.6 Configuring Windows Server Desktop Experience
- 2.2.7 Configure Windows Server Core
- 2.2.8 Windows Server Basics Quiz
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## **2.3 Roles and Features**

- 2.3.1 Section Overview
- 2.3.2 Installing Roles and Features on Windows Server Desktop Experience
- 2.3.3 Installing Roles and Features on Windows Server Core
- 2.3.4 Windows Server Roles and Features Quiz
- 2.3.5 Lab: Installing Windows Server Roles and Features on Desktop Experience
- 2.3.6 Lab: Installing Windows Server Roles and Features on Server Core

## **2.4 Upgrading and Migrating Windows Server**

- 2.4.1 Section Overview
- 2.4.2 Windows Server Upgrade Paths and Pre-upgrade Checklist
- 2.4.3 Upgrading Windows Server Desktop Experience from 2016 to 2019
- 2.4.4 About Server Migrations
- 2.4.5 Upgrading and Migrating Windows Server Quiz
- 2.4.6 Lab: Upgrading Windows Server Desktop Experience from 2016 to 2019

## **2.5 Windows Server Storage Solutions**

- 2.5.1 Section Overview

- 2.5.2 Disk Initialization and Partition Styles
- 2.5.3 Volumes and Partitions
- 2.5.4 File Systems
- 2.5.5 Storage Allocation Units
- 2.5.6 Initializing a Disk and Creating a Volume
- 2.5.7 Windows Server Storage Solutions Quiz
- 2.5.8 Lab: Initialize a disk and configure a volume

## **2.6 File Shares**

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- 2.6.2 NFS/SMB Shares Overview
- 2.6.3 Creating an SMB Share
- 2.6.4 Creating an NFS Share
- 2.6.5 Creating Advanced Shares
- 2.6.6 Create an SMB Share with PowerShell
- 2.6.7 File Shares Quiz
- 2.6.8 Lab: Create SMB and NFS File Shares

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- 2.7.2 What is Windows Server Backup
- 2.7.3 Installing The Windows Server Backup Feature
- 2.7.4 Creating a One-Time Backup
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- 2.7.6 Windows Server Backup Quiz
- 2.7.7 Lab: Create and manage Windows Server Backups

## **2.8 Course Conclusion**

- 2.8.1 Help Me Improve This Course!

## 2.8.2 Course Conclusion

# Module 3: Active Directory Installation and Administration

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3.1.2 Course Overview

## 3.2 Getting Started with Active Directory Domain Services

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3.2.2 AD DS (Active Directory Domain Services) Fundamentals

3.2.3 Installing the AD DS Server Role

3.2.4 Forests, Trees and Domains

3.2.5 Windows Domain Quiz

3.2.6 Lab: Installing the Active Directory Domain Services

## 3.3 Active Directory Backups

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3.3.2 Restoring an Active Directory Backup

3.3.3 Creating and Restoring Active Directory Snapshots

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3.4.3 Searching for Objects in Active Directory

3.4.4 Resetting User Passwords in Active Directory Users and Computers

3.4.5 Understanding Groups and Memberships

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3.4.8 Lab: Active Directory Users and Computers

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- 3.5.4 Lab: Adding a Second Domain Controller

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- 3.6.1 Enabling Script Execution for PowerShell
- 3.6.2 Listing AD Users with PowerShell
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- 3.6.4 CreateADUser.zip
- 3.6.5 NewUsers.csv
- 3.6.6 Creating User Accounts from a CSV (Comma Separated Value) File
- 3.6.7 CreateADUsersFromCSV.ps1 (Solution Script)
- 3.6.8 Move All Disable Users to "Disabled Users OU" with PowerShell
- 3.6.9 CreateADUsersFromCSV\_expanded.zip
- 3.6.10 Lab: ADUC PowerShell Automation

### **3.7 Administrating AD SS (Active Directory Sites and Services)**

- 3.7.1 Active Directory Sites and Services - Section Overview
- 3.7.2 Configuring Our ITFROUTE01 Server to act as a Router
- 3.7.3 Configuring Active Directory Sites and Services
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### **3.8 Windows Trusts**

- 3.8.1 Window Trusts Explained

### **3.9 Modifying the Active Directory Schema**

- 3.9.1 Add Custom Attributes to Active Directory Users

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#### 4.1.1 Course Prerequisites

### **4.2 Introduction to Group Policy Management**

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#### 4.2.2 Creating and Managing GPOs

#### 4.2.3 Group Policy Precedences

#### 4.2.4 Editing Group Policy Object Settings

#### 4.2.5 Group Policy Management Quiz

#### 4.2.6 Lab: Group Policy Management

### **4.3 Group Policy Troubleshooting**

#### 4.3.1 Troubleshooting Group Policy with MMC (RSOP.msc - Resultant Set of Policy)

#### 4.3.2 Troubleshooting Group Policy with Command Prompt (GPResult /r)

#### 4.3.3 Creating Non-Inheriting Organizational Units for GPO Testing / Troubleshooting

#### 4.3.4 Lab: Group Policy Troubleshooting

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#### 4.4.1 Deploying a Desktop Background to your domain with GPO (Group Policy Object)

#### 4.4.2 Setting up a Logon Banner (Interactive Logon)

#### 4.4.3 Deploying Software with Group Policy

#### 4.4.4 Creating Roaming Profiles (duplicate)

#### 4.4.5 Configuring Roaming Profiles for User Accounts

#### 4.4.6 Configure User Roaming Profile Path with PowerShell

#### 4.4.7 Creating and Mounting File Shares with Group Policy

#### 4.4.8 Lab: Manage Your Workstations with Group Policy

### **4.5 Securing Your Domain**

- 4.5.1 Configuring Domain Password and Account Lockout Policies with Group Policy
- 4.5.2 Deploying Fine Grained Password Policies (PSOs)
- 4.5.3 Configuring Windows Firewall with Group Policy
- 4.5.4 Configuring Registry Settings with Group Policy
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- 5.1.2 What's New in Windows Server 2016 DNS

### **5.2 DNS Basics**

- 5.2.1 What is DNS
- 5.2.2 Installing the DNS Windows Server Role
- 5.2.3 Building DNS Server Quiz
- 5.2.4 The Hosts File
- 5.2.5 Do I need NETBIOS?
- 5.2.6 Do-I-need-NetBIOS (1)
- 5.2.7 The Problem with NetBIOS
- 5.2.8 DNS Console Overview
- 5.2.9 Recursive and Iterative Queries
- 5.2.10 DNS Basics LAB
- 5.2.11 DNS Basics Quiz

### **5.3 DNS Resource Records**

- 5.3.1 DNS Resource Record Types
- 5.3.2 Creating the mytestzone Forward Lookup Zone
- 5.3.3 Creating DNS Resource Records
- 5.3.4 Creating DNS Resource Records Lab



## 5.3.5 DNS Resource Records Quiz

### **5.4 DNS Zones**

5.4.1 DNS Zones

5.4.2 Creating a Forward and Reverse Lookup Zone

5.4.3 Secondary Zones

5.4.4 Stub Zone Creation

5.4.5 Active Directory Zone Replication

5.4.6 DNS Forwarding

5.4.7 Conditional Forwarding

5.4.8 Forward and Reverse Zone Creation Lab

5.4.9 Creating a Secondary Zone Lab

5.4.10 Conditional Forwarding Lab

5.4.11 Creating a Stub Zone Lab

5.4.12 DNS Zones Quiz

### **5.5 DNS Delegation**

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5.5.2 Windows 2016 Server and DNS Zone Delegation

5.5.3 DNS Delegation Lab

5.5.4 QUIZ - Domain Name System and DNS Delegation

### **5.6 DNS Security Techniques**

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5.6.3 Configuring DNS Socket Pools

5.6.4 Configuring Response Rate Limiting

5.6.5 DNS Security Techniques Quiz

### **5.7 Advanced DNS Topics**

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5.7.2 Enabling Round Robin and Netmask Ordering

5.7.3 Configuring Recursion

5.7.4 IPV4 and IPV6 Root Hints

5.7.5 Advanced DNS Topics Quiz

## **5.8 DNS Security (DNSSEC)**

5.8.1 DNSSEC

5.8.2 Symmetric vs Asymmetric Encryption

5.8.3 Installing DNSSEC on Windows 2016 Server

5.8.4 DNSSEC Client Install

5.8.5 DNSSEC (DNS Security Lab)

5.8.6 DNSSEC Quiz

## **5.9 DNS Policies**

5.9.1 DNS Policies Background Information

5.9.2 Configuring DNS Filtering

5.9.3 Configuring Split Brain DNS in an Active Directory Environment

5.9.4 Configuring DNS Selective Recursion Policy

5.9.5 Configuring a Traffic Management Policy

5.9.6 DNS Policies

## **5.10 PowerShell for DNS**

5.10.1 PowerShell for DNS Part 1

5.10.2 PowerShell for DNS Part 2

5.10.3 PowerShell for DNS Part 3

5.10.4 PowerShell for DNS Part 4

5.10.5 PowerShell for DNS LAB

5.10.6 Powershell for DNS Quiz

## **5.11 Troubleshooting DNS Issues - Troubleshooting Tools**

- 5.11.1 Troubleshooting Tools Every IT Pro Must Know
- 5.11.2 Table - Troubleshooting Tools every IT pro should know
- 5.11.3 The Events Viewer Overview
- 5.11.4 Creating a Secondary Zone ( for the Events viewer Overview)
- 5.11.5 Subscriptions
- 5.11.6 Trouble-Shooting DNS Client Issues
- 5.11.7 Monitoring and Debug Logging
- 5.11.8 Table for Subscription Creation
- 5.11.9 Troubleshooting Subscriptions Lab
- 5.11.10 DNS Troubleshooting Lab
- 5.11.11 DNS Troubleshooting Quiz

## **Module 6: Installing and Administration DHCP on Windows Server**

### **6.1 Welcome to The Course**

- 6.1.1 Course Overview

### **6.2 Deploying Windows Server DHCP**

- 6.2.1 What is DHCP and How Does it Work?
- 6.2.2 Turn off Your VirtualBox (or other Virtualization Software) DHCP Service
- 6.2.3 Install the DHCP Server Role
- 6.2.4 Configure DHCP Scopes, Exclusions and Lease Durations
- 6.2.5 Configure DHCP Reservations
- 6.2.6 Lab: Deploying Windows Server DHCP

### **6.3 Introduction to DHCP**

- 6.3.1 Section Overview
- 6.3.2 What is an IP Address?
- 6.3.3 What is DHCP and Why is It Useful?

6.3.4 DHCP In Your Home Network

6.3.5 DHCP Basics Quiz

## **6.4 Deploying DHCP on Windows Server**

6.4.1 Section Overview

6.4.2 Turn off the VirtualBox DHCP Service

6.4.3 Installing the DHCP Server Role

6.4.4 Configuring DHCP Scopes, Exclusions and Lease Durations

6.4.5 Configuring DHCP Reservations

6.4.6 Windows DHCP Client Commands

6.4.7 Windows Server DHCP Quiz

## **6.5 DHCP Troubleshooting**

6.5.1 Releasing a DHCP Client Lease

6.5.2 IP Address Conflicts

## **6.6 Simulate a DHCP Network with PacketTracer**

6.6.1 Section Overview

6.6.2 Downloading and Installing PacketTracer

6.6.3 Let's build a DHCP Network!

## **6.7 Course Conclusion**

# **Module 7: Windows Server Update Services (WSUS) Training for Beginners**

## **7.1 Introduction**

7.1.1 What is WSUS - Edited

## **7.2 Optional Lab Setup**

7.2.1 Downloading Required Software - Edited

7.2.2 Installing VirtualBox and Creating Our VMS and Virtual Network - Edited Fixed

7.2.3 Installing Windows Server Part 1 and 2 - Edited

7.2.4 Building Our Windows Domain - Edited

7.2.5 Installing Windows 10 - Edited

### **7.3 Installation and Configuring WSUS (Windows Server Update Services)**

7.3.1 Installing The WSUS Role

7.3.2 Configuring Our WSUS Server

7.3.3 Configuring WSUS with Group Policy

7.3.4 Configuring WSUS Clients That Are Not In Your Domain

7.3.5 Installing and Configuring WSUS Quiz

7.3.6 Lab: Installing and Configure WSUS

### **7.4 How to use WSUS**

7.4.1 WSUS Synchronizations

7.4.2 Managing WSUS Client Computers and Groups

7.4.3 Approving WSUS Updates

7.4.4 Lab: How to use WSUS

### **7.5 WSUS Troubleshooting**

7.5.1 Issues with Client Computers Not Reporting

7.5.2 What To Do When Your WSUS Server Wont Download Updates

7.5.3 WSUS Server Cleanup Wizard

7.5.4 Windows Update Agent Result Codes Reference

7.5.5 Windows-Update-Agent-WUA-Result-Codes.pdf

### **7.6 Advanced WSUS Administration**

7.6.1 Creating an Downstream WSUS Server

7.6.2 Moving Your WSUS Content to Another Hard Drive (or Location)

7.6.3 Importing Updates to an Offline WSUS Server

7.6.4 Lab: Configuring a Downstream WSUS Server

7.6.5 Lab: Importing Updates Offline WSUS Server

## **7.7 Course Conclusion**

7.7.1 Course Conclusion

## **Module 8: Introduction to Windows PowerShell 5.1**

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8.1.1 Course Introduction

8.1.2 PowerShell System Requirements

### **8.2 Getting Started with Windows PowerShell**

8.2.1 The Basics of PowerShell

8.2.2 Installing and Updating PowerShell

8.2.3 The Text Based Console Part 1- An Overview

8.2.4 Text Based Console Part 2 - An Overview

8.2.5 The ISE (Intelligent Scripting Environment) Part 1

8.2.6 The ISE (Intelligent Scripting Environment) Part 2

### **8.3 Getting Help and Finding Commands**

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8.3.2 Getting Help and Finding Commands Part 2

8.3.3 Getting Help and Finding Commands Part 3

8.3.4 Help System LAB Questions

8.3.5 Help System Lab Answers 1-4

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### **8.4 PowerShell Command Syntax**

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8.5.4 Questions 1-9 for Objects, Properties and Methods

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### **8.6 The PowerShell Pipeline**

8.6.1 The Pipeline Part 1

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### **8.7 PowerShell Arrays and Variables**

8.7.1 PowerShell Variables

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8.7.3 PowerShell Variables Challenge

8.7.4 PowerShell Variables Solution

### **8.8 PowerShell Loops**

8.8.1 For Loops

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8.8.3 For Each Loop

### **8.9 PowerShell Conditional Statements**

8.9.1 PowerShell Conditional Statements (If Then Else, Switch)

### **8.10 On Premises Lab Setup**

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8.10.2 Downloading and Installing VirtualBox

8.10.3 Downloading Windows Server 2019

8.10.4 Creating Your Virtual Network

8.10.5 Creating Your Virtual Machines

8.10.6 Installing VirtualBox Guest Additions

8.10.7 Installing Windows Server

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8.11.2 Installing Windows Server Roles and Features with Powershell

8.11.3 Running Powershell Scripts as Scheduled Tasks

8.11.4 Creating Organizational Units with Powershell

8.11.5 Creating and Managing Active Directory User Accounts with PowerShell

8.11.6 Move all AD Users in a Group to a Specific Organizational Unit

8.11.7 Generate a list of AD Users and their OU

8.11.8 PowerShell Splatting

8.11.9 Lab: Domain Administration with Windows PowerShell

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8.12.1 Send Emails from Gmail with PowerShell

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8.13.1 DSC Overview

8.13.2 Enabling PSRemoting with Group Policy

8.13.3 Install the DSC Resource Kit

8.13.4 Configuring The Local Config Manager for DSC Push

8.13.5 Uninstalling Windows Features with DSC



8.13.6 Configure a Web Server with DSC

8.13.7 Desired State Configuration (DSC) Basic Quiz

8.13.8 Lab: Desired State Configuration (DSC)

## **8.14 Course Conclusion**

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## **Module 9: System Center Configuration Manager (SCCM) 2016 For Beginners**

### **9.1 Getting Started with this Course**

9.1.1 SCCM Configuration Manager Overview

9.1.2 SCCM Production Requirements

### **9.2 SCCM Lab Setup**

9.2.1 IMPORTANT Please Read! Software Needed for your Lab

9.2.2 SCCM Lab Overview

9.2.3 Downloading & Installing VirtualBox

9.2.4 Downloading Windows Server 2016

9.2.5 Building our Lab

9.2.6 Installing Windows Server 2016

9.2.7 Configuring IP Addresses for our Servers

9.2.8 How to Setup a Domain Controller

9.2.9 Installing Windows 10

9.2.10 Joining our VMs to our SCCM Lab Domain

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9.3.2 Creating the SCCMAdmin Domain Admin Account

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9.3.4 Extending Your Active Directory Schema

9.3.5 Downloading and Installing SQL Server

9.3.6 Installing Server Roles and Features Required by SCCM

9.3.7 Installing SCCM

9.3.8 Lab: Installing System Center Configuration Manager

## **9.4 Configuring Manager Basics**

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9.4.2 Creating and Managing Administrative Users

9.4.3 Creating Boundary and Boundary Groups

9.4.4 Client Discovery Methods

## **9.5 SCCM Client Installation**

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9.5.2 Client Push Installation

9.5.3 Deploying the SCCM Client with Group Policy

9.5.4 Manual Client Installation

## **9.6 User and Device Collections**

9.6.1 Creating Additional VM's for Future Sections

9.6.2 Hands on User and Device Collections Creating an OU in AD

9.6.3 Role Based Administration

9.6.4 Assigning a User Collection to an Administrative Security Roll

9.6.5 Using a Collection to Enforce a Maintenance Window

9.6.6 Deploying Power Management to a Collection

9.6.7 Excluding Computers from Power Management

9.6.8 Using a Collection to Turn-On the Remote Control Feature

## **9.7 Application Management**

9.7.1 Creating a Network Share and a Collection

9.7.2 Application Management Overview

9.7.3 Creating and Deploying Applications

9.7.4 Deploying an Application to a Collection

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9.8.2 OSD - The Basics

9.8.3 Setting Up a DHCP Server

9.8.4 Downloading Windows - Setting up VB

9.8.5 Adding an Operating System to Configuration Manager

9.8.6 Create a Deployments folder for the Captured Image

9.8.7 Creating a Task Sequence

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## **9.9 Endpoint Protection**

9.9.1 An Overview of Network Security

9.9.2 Endpoint Protection Server Prerequisites

9.9.3 Endpoint Protection Licensing

9.9.4 Endpoint Protection Planning and Integration

9.9.5 Create a Shared Folder Named EPUdates

9.9.6 Endpoint Protection Server Configuration and Installation

9.9.7 Endpoint Protection Policy Overview

9.9.8 The Anti-malware Policy Settings Overview

9.9.9 Configuring an Automatic Deployment Rule (ADR)

9.9.10 Endpoint Protection Client Installation

## **9.10 Updating Configuration Manager**

9.10.1 Software Needed for this LAB

9.10.2 Software Needed for this LAB

9.10.3 Software Needed for this LAB

9.10.4 Overview of the SCCM Update process

9.10.5 Updating Configuration Manager

9.10.6 Verifying Our Configuration

## **9.11 Troubleshooting**

9.11.1 SCCM Troubleshooting Overview

9.11.2 The CMTrace Overview

9.11.3 Deploying CMTrace to a Device Collection

9.11.4 Troubleshooting a failed Client Push Install

## **9.12 Problems and Solutions from the Message Board**

9.12.1 Cannot Establish a Remote Desktop Connection from SSCM to a Client - Alstud

9.12.2 Problems Downloading ADK

9.12.3 Problems using VB - AKM - Rajib

9.12.4 SCCM Console will not connect to the Site Database

9.12.5 PXE Boot Errors and Resolutions

9.12.6 OSD and Task Sequence Issues

9.12.7 How to Extend the Windows Server 2016 Evaluation Time Period

9.12.8 mfc120.dll is missing while trying to extend the schema

*Please note that a small percentage of these lectures are in the draft phase and have not been published yet. We consistently upload new content to provide you with the best possible learning experience.*