Windows Server 2012 Admin, Part 5 of 8: Managing Remote Access

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

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Course description: Remote access is a broad topic coercing many technologies and services. In order to implement a successful remote access solution, you must understand the purpose of all the component parts, how they interact, the solutions they provide and how to install and configure them. Through this session we will go through implementing remote access, installing a network policy server and implementing network access protection.

Course outline:

ImplementRemoteAccess
- Introduction
- Remote Access
- NPS & NAP
- RAS & NPS
- Demo: RAS Install
- Summary

RemoteAccessConnection
- Introduction
- Remote Access Connection Types
- VPN
- Dial-up
- Direct Access
- Authentication & Authorization
- Authentication Protocols
- PAP, CHAP, & MS-CHAP V2
- EAP
- Other Options
- DHCP & Remote Access
- New Remote Access Wizards
- Network Policy
- VPN Connections
- Encapsulation
- Authentication
- Encryption
- Integrity
- Types of VPN Connections
- Remote Access VPN
- Site-to-Site VPN
- Site-to-Site & IP Addressing
- VPN Encryption & Performance
- VPN Tunneling Protocols
- PPTP
- L2TP
- SSTP
- IKE v2
- VPN Reconnect
- VPN Infrastructure
- Additional Configuration Tasks
- Demo: VPN Server Remote Access
- Demo: VPN Server Configure
- Demo: VPN Server Test
- Summary

Dial Up Remote Access
- Introduction
- Client Dial-Up Remote Access
- Server to Server Demand Dial
- Remote Access Client Settings
- Connection Manager
- CMAK Features
- CMAK Distribution
- NAT
- VPNs & NAT
- Routing
- Win Firewall & Remote Access
- Remote Access Troubleshooting
- Common Error Msgs
- L2TP/IPSEC Auth. Issues
- EAP-TLS Auth. Issues
- Demo: Add NAT & Routing
- Demo: Configure NAT & Routing
- Demo: Test NAT & Routing
- Summary

DirectAccess
- Introduction
- Direct Access
- Features
- Improvements
- Components
- DirectAccess Server
- DirectAccess Client
- NRPT
- NRPT Exceptions
- NRPT Exemption
- NRPT Configuration
- DNS Server
- Configure DNS for DirectAccess
- NLS
- CRL
- Internal Resources
- Active Directory
- Group Policy
- PKI
- NAP Server
- Windows Firewall & DA
- Forced Tunneling
- Split Tunneling
- DA Server Requirements
- DA Client Requirements
- Infrastructure Requirements
- Offline Domain Join
- DirectAccess: External Clients
- DirectAccess: Internal Clients
- Summary
- DirectAccess Troubleshooting
- Demo: Configure DA - Wizard
- Demo: Configure DA - Setup
- Summary

Install Network Policy Server
- Introduction
- NPS
- RADIUS
- RADIUS Server, Client, & Proxy
- Remote Access Client

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- Ports for RADIUS & Logging
- Post Installation Tasks
- NPS ADirectory Registration
- RADIUS Client Configuration
- NPS Template
- Connection Request Policy
- Network Policy Creation
- NAP Configuration
- NAP Configuration Export
- Demo: NPS & RADIUS client
- Demo: NPS VPN service
- Demo: NPS Test
- Summary

Implement Network Access Protection
- Introduction
- NAP
- NAP Components
- NAP Components (Cont)
- NAP Installation
- NAP Management
- NAP Implementation Process
- NAP Implementation (Cont)
- Demo: Install NAP HPS
- Summary

NAP Enforcement
- Introduction
- NAP Enforcement Methods
- NAP Enforcement Methods (Cont)
- RADIUS Server Grp Config
- NAP Enforcement Points
- NAP Enforcement Configuration
- NAP Enforcement Config (Cont)

- Demo: Config NAP Enforcement
- Demo: NAP Enforcement (Cont)
- Summary

Network Policies
- Introduction
- Network Policy Properties
- Overview
- Conditions
- Condition Types
- Groups
- HCAP
- Day and Time
- Network Access Protection
- Connection Properties
- RADIUS Client Properties
- Gateway
- Constraints
- Constraint Types
- Settings
- Health Policy
- Network Policy Processing
- Certification Authentication
- Server Certificate Reqs
- Client Certificate Reqs
- Certificate Templates
- NAP Enforcement Mode
- NAP Capable Clients
- Remediation Servers
- Demo: NAP Health Policy
- Demo: NAP Network Policy
- Demo: Configure NAP
- Summary