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|  | <h1>Windows 2000 Network Infrastructure Design</h1> | | |
|  <h2>Windows 2000 Network Infrastructure Design</h2> <p>5 Sessions – 15 Hours of Interactive Training</p> | <p>Session 1</p> <p>Section A: Design Process</p> <ul style="list-style-type: none"> · Design Elements & Goals · Design Analysis · Technical Requirements <p>Section B: TCP/IP Introduction</p> <ul style="list-style-type: none"> · Services Strategies · TCP/IP Networking · Features with Windows 2000 <p>Section C: IP Addressing</p> <ul style="list-style-type: none"> · Addressing Basics · Address Classes · Subnet Mask · Determining Scheme <p>Section D: IP Subnetting</p> <ul style="list-style-type: none"> · Requirements · Examples · High Order Rule · Maximum Hosts · Subnet Ranges · Configuration Methods <p>Section E: TCP/IP Security</p> <ul style="list-style-type: none"> · Filters · IPSec · Authentication Only · Encryption & Authentication · Protection Levels · Secure Conversations <p>Section F: TCP/IP Availability & Performance</p> <ul style="list-style-type: none"> · Enhance Availability · Optimizing Performance · Quality of Service <p>Section G: DHCP Design</p> <ul style="list-style-type: none"> · Design Decisions · Features · Integration · LAN Design · Scope Examples · Routed Design · Supported Options | <p>Section F: WINS Design</p> <ul style="list-style-type: none"> · Design Decisions · Features · LAN Considerations · Routed Networks · Client Conversations <p>Section G: WINS Replication</p> <ul style="list-style-type: none"> · Replication Options · Multi-Server Issues <p>Section H: WINS Security, Availability & Performance</p> <ul style="list-style-type: none"> · Securing WINS · Screened Subnet · Enhancing Availability · Optimizing Performance <p>Session 3</p> <p>Section A: NAT Design</p> <ul style="list-style-type: none"> · Design Decisions · Features · Function · Options <p>Section B: NAT Security, Availability & Performance</p> <ul style="list-style-type: none"> · Restrict Traffic · VPN Tunnels · Enhance Services <p>Section C: Microsoft Proxy Server Design</p> <ul style="list-style-type: none"> · Design Decisions · Features · Server Placement · Address Issues · Address Translation · Client Software <p>Section D: Microsoft Proxy Server Security</p> <ul style="list-style-type: none"> · Active Directory · Non-Active Directory · Screened Subnet Design · Packet Filters · Domain Filters · Web Publishing <p>Section E: Microsoft Proxy Server Availability & Performance</p> <ul style="list-style-type: none"> · Proxy Server Arrays · Active Caching · Passive Caching · Proxy Server Hierarchy · Traffic Distribution <p>Section F: Extranet Routing Design</p> <ul style="list-style-type: none"> · Design Decisions · RRAS Features · Router Placement · Router Integration · Routing Design · Static Routing · RIP Routing · OSPF Routing · IBMP Routing · DHCP Routing <p>Section G: Router Security</p> <ul style="list-style-type: none"> · IP Filters · Authenticating Routers · Screened Subnets | <p>Section H: Router Security Using Tunnels</p> <ul style="list-style-type: none"> · IPSec Tunnels · VPN Tunnels · Authentication & Encryption <p>Section I: Router Availability & Performance</p> <ul style="list-style-type: none"> · Enhance Availability · Enhance Performance <p>Session 4</p> <p>Section A: RAS Introduction</p> <ul style="list-style-type: none"> · Design Decisions · Dial-In Features · VPN Features · RAS Integration <p>Section B: RAS Dial-In Design</p> <ul style="list-style-type: none"> · LAN Link · Routed Link <p>Section C: RAS VPN Design</p> <ul style="list-style-type: none"> · Routed Link · Tunnel Selection · VPN Outside Firewall · Firewall Issues · RAS Placement <p>Section D: RAS Security</p> <ul style="list-style-type: none"> · Authentication · Encryption · Remote Access Policy <p>Section E: RAS Availability & Performance</p> <ul style="list-style-type: none"> · Enhance Availability · Optimizing Performance <p>Section F: RADIUS Introduction</p> <ul style="list-style-type: none"> · Design Decisions · Components · Features <p>Section G: RADIUS Design</p> <ul style="list-style-type: none"> · Client Placement · Connection Types · Server Placement · Authentication Domain <p>Section H: RADIUS Security, Availability & Performance</p> <ul style="list-style-type: none"> · Secure Access · Screened Subnet Issues · Enhance Availability · Optimizing Performance |
| <p>LearnKey's Windows 2000 Network Infrastructure Design course will give you the essential knowledge and skills to design a networking services infrastructure. At the conclusion of this course you will understand how to determine which technologies are needed to design a network infrastructure that supports required network applications and be prepared to pass exam #70-221.</p> <p>Also Available:</p> <ul style="list-style-type: none"> · Study Guide · Test Prep | <p>Session 2</p> <p>Section A: DHCP Security</p> <ul style="list-style-type: none"> · Securing DHCP · Screened Subnets <p>Section B: DHCP Availability & Performance</p> <ul style="list-style-type: none"> · Enhance Availability · Enhance Performance · Lease Length <p>Section C: DNS Design</p> <ul style="list-style-type: none"> · Design Decisions · DNS Features · Zone Types · Choosing Zone Types <p>Section D: DNS Integration</p> <ul style="list-style-type: none"> · Internet Connected · Integrating DNS · Namespace Issues · Manual Integration <p>Section E: DNS Security, Availability & Performance</p> <ul style="list-style-type: none"> · Dynamic Update · Zone Replication · Screened Subnets · Enhance Availability · Enhance Performance | <p>Section F: WINS Design</p> <ul style="list-style-type: none"> · Design Decisions · Features · LAN Considerations · Routed Networks · Client Conversations <p>Section G: WINS Replication</p> <ul style="list-style-type: none"> · Replication Options · Multi-Server Issues <p>Section H: WINS Security, Availability & Performance</p> <ul style="list-style-type: none"> · Securing WINS · Screened Subnet · Enhancing Availability · Optimizing Performance <p>Session 3</p> <p>Section A: NAT Design</p> <ul style="list-style-type: none"> · Design Decisions · Features · Function · Options <p>Section B: NAT Security, Availability & Performance</p> <ul style="list-style-type: none"> · Restrict Traffic · VPN Tunnels · Enhance Services <p>Section C: Microsoft Proxy Server Design</p> <ul style="list-style-type: none"> · Design Decisions · Features · Server Placement · Address Issues · Address Translation · Client Software <p>Section D: Microsoft Proxy Server Security</p> <ul style="list-style-type: none"> · Active Directory · Non-Active Directory · Screened Subnet Design · Packet Filters · Domain Filters · Web Publishing <p>Section E: Microsoft Proxy Server Availability & Performance</p> <ul style="list-style-type: none"> · Proxy Server Arrays · Active Caching · Passive Caching · Proxy Server Hierarchy · Traffic Distribution <p>Section F: Extranet Routing Design</p> <ul style="list-style-type: none"> · Design Decisions · RRAS Features · Router Placement · Router Integration · Routing Design · Static Routing · RIP Routing · OSPF Routing · IBMP Routing · DHCP Routing <p>Section G: Router Security</p> <ul style="list-style-type: none"> · IP Filters · Authenticating Routers · Screened Subnets | <p>Section H: Router Security Using Tunnels</p> <ul style="list-style-type: none"> · IPSec Tunnels · VPN Tunnels · Authentication & Encryption <p>Section I: Router Availability & Performance</p> <ul style="list-style-type: none"> · Enhance Availability · Enhance Performance <p>Session 4</p> <p>Section A: RAS Introduction</p> <ul style="list-style-type: none"> · Design Decisions · Dial-In Features · VPN Features · RAS Integration <p>Section B: RAS Dial-In Design</p> <ul style="list-style-type: none"> · LAN Link · Routed Link <p>Section C: RAS VPN Design</p> <ul style="list-style-type: none"> · Routed Link · Tunnel Selection · VPN Outside Firewall · Firewall Issues · RAS Placement <p>Section D: RAS Security</p> <ul style="list-style-type: none"> · Authentication · Encryption · Remote Access Policy <p>Section E: RAS Availability & Performance</p> <ul style="list-style-type: none"> · Enhance Availability · Optimizing Performance <p>Section F: RADIUS Introduction</p> <ul style="list-style-type: none"> · Design Decisions · Components · Features <p>Section G: RADIUS Design</p> <ul style="list-style-type: none"> · Client Placement · Connection Types · Server Placement · Authentication Domain <p>Section H: RADIUS Security, Availability & Performance</p> <ul style="list-style-type: none"> · Secure Access · Screened Subnet Issues · Enhance Availability · Optimizing Performance |
| <p>About The Author</p> <p>For the past 16 years, Michael Storm has managed the design, security and implementation of enterprise networks for Fortune 100 companies around the globe. As the founder of Brainstorm International, Inc., Storm specializes in InfoSec Security and Internetwork Solutions Architectures. He is currently the Director of Network Engineering and Security Officer for Interface Technical Training of Phoenix, AZ and creator of the 'Hard Hat' learning process, used by countless Cisco and Microsoft Professionals for achieving technical mastery. Storm holds many IT certifications, including the Cisco CCIE Security, CCNP/CCSP/CCDP, NSA/CNSS CISSP, MCSE and MCT.</p> | <p>Session 2</p> <p>Section A: DHCP Security</p> <ul style="list-style-type: none"> · Securing DHCP · Screened Subnets <p>Section B: DHCP Availability & Performance</p> <ul style="list-style-type: none"> · Enhance Availability · Enhance Performance · Lease Length <p>Section C: DNS Design</p> <ul style="list-style-type: none"> · Design Decisions · DNS Features · Zone Types · Choosing Zone Types <p>Section D: DNS Integration</p> <ul style="list-style-type: none"> · Internet Connected · Integrating DNS · Namespace Issues · Manual Integration <p>Section E: DNS Security, Availability & Performance</p> <ul style="list-style-type: none"> · Dynamic Update · Zone Replication · Screened Subnets · Enhance Availability · Enhance Performance | <p>Section F: WINS Design</p> <ul style="list-style-type: none"> · Design Decisions · Features · LAN Considerations · Routed Networks · Client Conversations <p>Section G: WINS Replication</p> <ul style="list-style-type: none"> · Replication Options · Multi-Server Issues <p>Section H: WINS Security, Availability & Performance</p> <ul style="list-style-type: none"> · Securing WINS · Screened Subnet · Enhancing Availability · Optimizing Performance <p>Session 3</p> <p>Section A: NAT Design</p> <ul style="list-style-type: none"> · Design Decisions · Features · Function · Options <p>Section B: NAT Security, Availability & Performance</p> <ul style="list-style-type: none"> · Restrict Traffic · VPN Tunnels · Enhance Services <p>Section C: Microsoft Proxy Server Design</p> <ul style="list-style-type: none"> · Design Decisions · Features · Server Placement · Address Issues · Address Translation · Client Software <p>Section D: Microsoft Proxy Server Security</p> <ul style="list-style-type: none"> · Active Directory · Non-Active Directory · Screened Subnet Design · Packet Filters · Domain Filters · Web Publishing <p>Section E: Microsoft Proxy Server Availability & Performance</p> <ul style="list-style-type: none"> · Proxy Server Arrays · Active Caching · Passive Caching · Proxy Server Hierarchy · Traffic Distribution <p>Section F: Extranet Routing Design</p> <ul style="list-style-type: none"> · Design Decisions · RRAS Features · Router Placement · Router Integration · Routing Design · Static Routing · RIP Routing · OSPF Routing · IBMP Routing · DHCP Routing <p>Section G: Router Security</p> <ul style="list-style-type: none"> · IP Filters · Authenticating Routers · Screened Subnets | <p>Section H: Router Security Using Tunnels</p> <ul style="list-style-type: none"> · IPSec Tunnels · VPN Tunnels · Authentication & Encryption <p>Section I: Router Availability & Performance</p> <ul style="list-style-type: none"> · Enhance Availability · Enhance Performance <p>Session 4</p> <p>Section A: RAS Introduction</p> <ul style="list-style-type: none"> · Design Decisions · Dial-In Features · VPN Features · RAS Integration <p>Section B: RAS Dial-In Design</p> <ul style="list-style-type: none"> · LAN Link · Routed Link <p>Section C: RAS VPN Design</p> <ul style="list-style-type: none"> · Routed Link · Tunnel Selection · VPN Outside Firewall · Firewall Issues · RAS Placement <p>Section D: RAS Security</p> <ul style="list-style-type: none"> · Authentication · Encryption · Remote Access Policy <p>Section E: RAS Availability & Performance</p> <ul style="list-style-type: none"> · Enhance Availability · Optimizing Performance <p>Section F: RADIUS Introduction</p> <ul style="list-style-type: none"> · Design Decisions · Components · Features <p>Section G: RADIUS Design</p> <ul style="list-style-type: none"> · Client Placement · Connection Types · Server Placement · Authentication Domain <p>Section H: RADIUS Security, Availability & Performance</p> <ul style="list-style-type: none"> · Secure Access · Screened Subnet Issues · Enhance Availability · Optimizing Performance |

Windows 2000 Network Infrastructure Design

continued

Section C: Designing Management Strategies

- Develop Plan
- Service Variations
- Verifying Compliance
- Anticipate Changes
- Data Collection
- Event Generation

Section D: Tools & Strategies

- Network Utilities
- Data Analysis
- Response Strategies

Section E: Combining Services Design

- Optimization
- Constraints
- Security
- Isolate Services
- Enhance Availability
- Clustering
- Optimizing Performance
- Resource Contention