



CompTIA

Network+ 02

Enterprise Network

Infrastructure

STUDY PLAN

MAALINKA 1AAD

IPV4 ADDRESSING SCHEMES

1. Structure of an IPv4 address
2. Classes of IPv4 addresses
3. Public versus Private Addressing
4. Special IPv4 addresses
5. Addressing Schemes
6. Dynamic versus Static IP Addresses
7. Assignment of IP Addresses

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TOOLS TO TEST IP CONFIGURATION

1. Use Appropriate Tools to Test IP Configuration
2. Configuring and Verify Windows Network Access
3. Configuring and Verify MacOS Network Access
4. Configuring and Verify Ubuntu Linux Network Access

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UNDERSTANDIN SUBNETS

1. Binary Numbering
2. Understanding Subnetting
3. Class C Example Subnetting
4. Class B Example Subnetting
5. Class A Example Subnetting

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IPV6 ADDRESSING SCHEMES

1. Fundamentals of IP Version 6
2. Hexadecimal Numbering
3. The format of an IPv6 address
4. IPv6 Address Types
5. How IPv6 Works in an Internetwork

6. IPv6 Protocols

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ROUTING CONCEPTS

1. Primary Function of Router
2. Routing Tables and Path Selection
3. Routing Tables and Path Selection

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DYNAMIC ROUTING CONCEPTS

1. Dynamic Routing Protocols
2. Interior versus Exterior Gateway Protocols
3. Routing Information Protocol (RIP)
4. Enhanced Interior Gateway Routing Protocol (EIGRP)
5. Open Shortest Path First (OSPF)
6. Border Gateway Protocol (BGP)
7. Administrative Distance (AD)

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INSTALL AND TROUBLESHOOT ROUTERS

1. Edge Routers
2. Internal Routers
3. Router Configuration
4. Route, Tracert and Traceroute
5. Configure IPv4 Addresses on Router Interface
6. Configure IPv6 Addresses on Router Interface
7. Configuring Static Routing and Default Static Routes

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NETWORK TYPES AND CHARACTERISTICS

1. Client-server versus Peer-to-peer Networks
2. Network Types
3. Network Topology

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TIERED SWITCHING ARCHITECTURE

1. Three-tiered Network Hierarchy
2. Spanning Tree Protocol (STP)
3. Cisco Switch Configuration

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VIRTUAL LANS

1. Explain Virtual LANs
2. VLANs Configuration
3. Trunk Link Configuration