

--DAY-1--

Intro: Network, LAN, WAN Concepts
Xerox and ARPA approach
Defining Collision and Broadcast Domains
Defining Network Devices: Hub, Bridge, Switch, Router
-> M1-L3 -> ICND1_300-S01 -> 20

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Defining Protocols
Vendor Proprietary vs Vendor-Agnostic Open Standards
Needed Organizations:
ANSI, TIA, ITU, IEEE, IETF, IANA, ICANN and ISO
Definition of OSI and TCP/IP Reference Models
-> M1-L1 -> ICND1_300-S01 -> 1
-> M1-L2 -> ICND1_300-S01 -> 12
Layer-2 Ethernet Header Structure
-> M1-L6 -> ICND1_300-S01 -> 82

--DAY-1-- After Readings

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Chapter 1
Chapter 2
Chapter 3

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Understanding Ethernet and Switch Operation

-> M1-L6 -> ICND1_300-S01 -> 73

Troubleshooting Common Media Issues

-> M1-L7 -> ICND1_300-S01 -> 96

Needed Layer-3 Addresses and Defining Routed Protocols

Special Layer-3 Address of IP

IP Addresses Structure and Subnet-Mask

FLSM/VLSM, CIDR and IP Subnetting

-> M2-L1 -> ICND1_300-S02 -> 1

-> M2-L2 -> ICND1_300-S02 -> 23

Layer-3 IP Header Structure

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Defining Layer-7 Applications

Layer-7 Applications and Layer-4 Relationship

-> M2-L3 -> ICND1_300-S02 -> 45

Defining Layer-4 Connections

Layer-4 TCP Header Structure

Layer-4 UDP Header Structure

TCP and UDP Key Points, Needed UDP

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Chapter 5

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--DAY-3--

Why we need DHCP?

-> M2-L6 -> ICND1_300-S02 -> 99

Defining ARP and Default Gateways

Host-to-Host Packet Delivery Process

Intoduction: Router and Routing

-> M2-L4 -> ICND1_300-S02 -> 64

Defining Router and Components

Defining Routing Table

Selection Best-Path Criteria

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Configuring Cisco Router, CDP and LLDP

-> M1-L4 -> ICND1_300-S01 -> 27

-> M1-L5 -> ICND1_300-S01 -> 58

-> M2-L5 -> ICND1_300-S02 -> 76

Static Routing and Default Routes

-> M2-L7 -> ICND1_300-S02 -> 142

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Chapter 19

--DAY-4--

Overview of Routing Protocols

Implementing RIPv2

-> M4-L4 -> ICND1_300-S04 -> 93

Wildcard Mask and Learning ACLs

-> M2-L8 -> ICND1_300-S02 -> 172

Needed for NAT/PAT, Public vs Private IPv4 Address

-> M2-L9 -> ICND1_300-S02 -> 210, 217

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Using Cisco Device as a DHCP Server and DNS

-> M4-L3 -> ICND1_300-S04 -> 56

Securing Device Access

-> M5-L1 -> ICND1_300-S05 -> 2

Implementing Device Hardening and Defining NTP

-> M5-L2 -> ICND1_300-S05 -> 35

Syslog

-> M5-L3 -> ICND1_300-S05 -> 66

Managing Cisco Device

-> M5-L4 -> ICND1_300-S05 -> 78

Cisco Device Licensing

-> M5-L5 -> ICND1_300-S05 -> 110

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Introducing IPv6

-> M7-L1 -> ICND1_300-S07 -> 2

-> M7-L2 -> ICND1_300-S07 -> 18

IPv6 Static Route

-> M7-L3 -> ICND1_300-S07 -> 42

Defining VLANs and Trunks

-> M4-L1 -> ICND1_300-S04 -> 2

Implementing Inter-VLAN Routing

-> M4-L2 -> ICND1_300-S04 -> 36

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--DAY-5-- After Readings

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Chapter 14

Chapter 10

Chapter 11

Complete Book Part I (Chapter 1 to Chapter 14)

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