4 WEEK CCNA STUDY PLAN
WEEK 1

- Networking basics and Fundamentals
- OSI & TCP/IP models
- Local area network (LAN)
- Wide area network
- Encapsulation
- Ethernet
- MAC & IP addresses
- Unicast, multicast, and broadcast addresses
- Network devices
- Half duplex and full duplex
- IEEE Ethernet standards
- Cisco three-layer hierarchical model
- Cabling
- Types of Ethernet cabling
- Types of Ethernet cables – straight-through and crossover
- IP addressing
- Types of IP addresses
- Classes of IP addresses
- Subnetting explained
- Subnet mask

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Create subnets
CIDR (Classless inter-domain routing)
Network tools
Ping explained
Traceroute explained
Network protocols
TCP/IP suite of protocols
TCP explained
UDP explained
Ports explained
ARP (Address Resolution Protocol) explained
DHCP & DNS
Telnet & SSH
FTP & TFTP
SNMP (Simple Network Management Protocol)
HTTP and HTTPS explained
NTP (Network Time Protocol)
APIPA (Automatic Private IP Addressing)
ICMP (Internet Control Message Protocol)
WEEK 1

- Cisco IOS overview
- Power on a Cisco device
- IOS command modes
- Get help in IOS
- Running & start-up configuration
- IOS basic commands and descriptions
- Run privileged commands within global config mode
- Ports on an IOS device
- Pipe character in IOS
- IOS boot sequence
- Backing up IOS configuration
- IP Routing
- What is IP Routing?
- Connected, Static & Dynamic Routes
- Administrative Distance & Metric
- Routing protocols
- RIP
- RIP Overview
- Configuring RIPv2
- Passive-Interface Command
- RIP Loop Prevention
- Advertise Default Routes Using RIP
- EIGRP
- EIGRP Overview
- EIGRP Configuration
- EIGRP Automatic & Manual Summarization
- EIGRP Authentication & Load Balancing
EIGRP Reliable Transport Protocol (RTP)
EIGRP Diffusing Update Algorithm (DUAL)
EIGRP summary
OSPF
OSPF overview
OSPF configuration
Designated & Backup Designated Router
OSPF authentication
OSPF summarization
OSPF summary
Differences between OSPF and EIGRP
What are ACLs?
Types of ACLs
Configuring standard ACLs
Configuring extended ACLs
Solving Labs and Practice Questions
LAN Switching
Layer 2 Switching
Collision & Broadcast Domain
CSMA/CD
VLAN
What is a VLAN?
Configuring VLANs
Configuring Access & Trunk Ports
Frame Tagging
IEEE 802.1Q
Inter-Switch Link (ISL)
VTP
DTP
Solving Labs and Practice Questions
What is NAT?
- Static NAT
- Dynamic NAT
- Port Address Translation (PAT) configuration

What is IPv6?
- IPv6 address format
- Types of IPv6 addresses
- IPv6 unicast addresses
- IPv6 global unicast addresses
- IPv6 unique local addresses
- IPv6 link-local addresses
- IPv6 multicast addresses
- IPv6 address prefixes
- IPv6 interface identifier
- IPv6 transition options
- IPv6 Routing Protocols
WEEK 4

- How To Configure IPv6
- RIPng
- Differences Between IPv4 and IPv6
- Wildcard Masks
- Setting Up Telnet
- Setting Up SSH
- Port Security
- Types Of Memory On a Cisco Device
- Configure Cisco Router as DHCP Server
- Configure NTP on a Cisco Router
- Cisco Discovery Protocol (CDP) Overview
- Map Hostnames to IP Addresses
- Configure Cisco Device as DNS Client
- Extended Ping Command
- Traceroute Command
- Debug Command
- Show Processes Command
- Configure an IP address on a switch
- Configure interVLAN routing
- Configure ROAS
Configure static MAC address
Link Layer Discovery Protocol (LLDP)
IOS files
Configure speed and duplex
Interface range command
How to upgrade Cisco IOS
Copy files with FTP
show version command
TCP three-way handshake
Erasing configuration files
show interfaces status command
Configure Cisco router as a DHCP client
logging synchronous command
def-timeout command
no ip domain-lookup command
Encrypt local usernames and passwords
Cisco console rollover cable
Create a static host route
Uniform Resource Locator (URL) structure
The ARP table on a Cisco router
Solving Labs and Practice Questions
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