

0	128	64	32	16	8	4	2	1
/24	/25	/26	/27	/28	/29	/30	/31	/32
	128	192	224	240	248	252	254	255
1Q	0.5Q	0.25Q	0.125Q					
	800,11	800	400	200	100	50	25	12.5
	/23	/22	/21	/20	/19	/18	/17	/16
	254	252	248	240	224	192	128	0
	2Q	4Q	8Q	16Q	32Q	64Q	128Q	256Q
# of hosts	512	1,024	2,048	4,096	8,192	16,384	32,768	65,536

Private IPv4 addresses

10.0.0.0/8 10.0.0.0 → 10.255.255.255
 172.16.0.0/12 172.16.0.0 → 172.31.255.255
 192.168.0.0/16 192.168.0.0 → 192.168.255.255

224.0.0.0 → 239.255.255.255 Multicast

*Wildcard bit subtract 255

IPv6 Multicast Scope

Interface Local → FF01::/16
 Link Local → FF02::/16(not route)
 Site Local → FF05::/16
 Organizational Local → FF08::/16
 Global → FF0E::/16

EUI-64

48bits MAC → 64-bit interfaceID

1. Divide MAC add. half
1234 5678 90AB → 123456 | 78 90AB
2. Insert FF FE in the middle
1234 56FF FE78 90AB
3. Invert 7th bit

IPv6 vs IPv4 Multicast

All hosts - FF02::1 → 224.0.0.1
 All routers - FF02::2 → 224.0.0.2
 All OSPF routers - FF02::5 → 224.0.0.5
 All OSPF DRs/BDRs - FF02::6 → 224.0.0.6
 All RIP routers - FF02::9 → 224.0.0.9
 All EIGRP routers - FF02::A → 224.0.0.10

IPV6 NDP,DAD

No Broadcast in IPv6
 NDP replaces ARP
 NS (ICMPv6 Type 135)
 RS → all routers to ID-FF02::2
 RA → all nodes via FF02::1
 DAD → Duplicate Add. Detection

STP

ID → (Bridge Priority (32,768) + MAC) (lowest)
 BLOCKING(DISCARDING) Speed(Mbps) → Cost

LISTENING	10 → 100
LEARNING	100 → 19
FORWARDING	1G → 4
Hello 2 seconds	10G → 2
Max age/dead timer (2*10) 20 seconds	

IEEE → Cisco

STP 802.1D → PVST+
 RSTP 802.1w → Rapid PVST+
 Multiple STP(802.1s)

EtherChannel

PAGP (Cisco) → LACP(IEEE)

8 channels / interface → 16 (8 standby)

Auto + Auto (No negotiation) → Passive + Passive
 Auto + Desirable (Successful) → Passive + Active
 Auto + On (No negotiation) → Passive + On
 Desirable + Desirable (Successful) → Active+Active

FHRP

HSRP(Active/Standby) 0000.0c07.acXX Group #
 HSRP v2 0000.0c9f.fXXX (Cisco)
 VRRP (Master/Backup) 0000.5e00.01XX (IEEE)
 GLBP (AVG/AVF) 0007.b400.XXYY (Cisco)

ACL

Standard 1-99, 1300-1999 → Destination
 Extended 100-199, 2000-2699 → Source
 One ACL per direction per protocol (4/int)

CDP vs LLDP (802.1AB)

Enabled by default → Disabled by default
 messages 60 secs → 30 secs
 holdtime 180 secs → 120 secs
 no cdp run → lldp run
 no cdp enable → lldp transmit/receive

OSPF

Cost(100 default)=ref. bandwidth / interface bandwidth

Down	Init	2-way	Exstart	Exchange	Loading	Full
	DR/BDR			LSDB/LSA	LRS/LSAck	

HELLO 10seconds, DEAD 40seconds (by default)
 DBD - summary of LSDB
 LSR - request specific LSAs from neighbor
 LSU - send specific LSAs to neighbor

Router-ID

1. manually configured
2. highest loopback int. IPs
3. highest physical int. IPs

Connect	AD
Static	0
eBGP	20
EIGRP	90
OSPF	100
IS-IS	115
RIP	120
iBGP	200

NTP (UDP Port 123)

R1#show clock
 R1#show clock detail
 R1#calendar set
 R1#clock update-calendar (clock read-c)
 Stratum 0 (ref./atomic/GPS clock) 15max
 server,client, symmetric active mode

DHCP (DORA)

Discover - client → server (broadcast)
 Offer - server → client(broadcast/unicast)
 Request - client → server(broadcast)
 Ack - server → client(unicast)

ip helper-address 192.168.10.10 (server)
 R1#show ip dhcp binding
 1/2 lease time, client renews IP lease



SNMP

SNMPv1 - original version
 SNMPv2c - Community string as passwords
 SNMPv3 - Encryption & Authentication
 Read-NMS → Devices (Get,GetNext,GetBulk)
 Write-NMS → Devices (Set)
 Notification - Devices → NMS (Trap, Inform)
 Response - (Response)

Syslog

Emergency	0
Alert	1
Critical	2
Error	3
Warning	4
Notice	5
Informational	6
Debugging	7 (default)

↓

NAT

Inside local → Inside global → Outside global → Outside local
 R1(config)#ip nat inside source list 1 interface g0/0 overload

Port Security

Shutdown (err disable, syslog/SNMP, violation counter +1)
 Restrict (not disable, discard traffic, violation counter +1)
 Protect (not disable, no syslog/SNMP, discard traffic, no count)

Redundancy

Single Homed → 1 SP, 1 Connection
 Dual Homed → 1 SP, 2 Connections
 Multi-Homed → 2SPs, 1 Connection
 Dual Multi-Homed → 2SPs, 2 Connections

How To Master Ccna Pdf

Keith Barker, Scott Morris



How To Master Ccna Pdf:

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Anesthesia - E-Book Sass Elisha, John J. Nagelhout, Karen Plaus, 2013-02-08 Take your understanding to a whole new level with Pageburst digital books on VitalSource Easy to use interactive features let you make highlights share notes run instant topic searches and so much more Best of all with Pageburst you get flexible online offline and mobile access to all your digital books Written specifically for nurse anesthetists Nurse Anesthesia 5th Edition provides comprehensive coverage of both scientific principles and evidence based practice It offers a complete overview of anatomy physiology pharmacology and pathophysiology and offers practical coverage of equipment and anesthesia management This edition includes updated information on pharmacokinetics clinical monitoring drug delivery systems and complications and revises chapters on airway management and anesthesia for cardiac surgery Written by leading nurse anesthesia experts John Nagelhout and Karen Plaus this perennial bestseller prepares anesthesia students and CRNAs for today's clinical anesthesia practice Over 650 figures of anatomy nurse anesthesia procedures and equipment depict complex concepts and information An easy to use organization covers basic principles first and builds on those with individual chapters for each surgical specialty UPDATED references make it quick and simple to find the latest and most important research in the field Over 700 tables and boxes highlight the most essential information in a quick easy to reference format Expert CRNA authors provide the current clinical information you'll use in daily practice UPDATED pharmacology information includes pharmacokinetics drug delivery systems opiate antagonists and key induction drugs Over 100 NEW photos and illustrations enhance your understanding of difficult anesthesia concepts UPDATED Airway Management and Anesthesia for Cardiac Surgery chapters are thoroughly revised NEW coverage includes robotics screening applications and non operating room best practices **Credentials** Michelle Van Noy, Paul L. Gaston, 2023-07-03 The credentials environment grows more complicated by the day but key questions help us understand why we need this book to help us grapple with those complexities Given the expansion in the variety of higher education credentials and in approaches to earning them why are so many students disappointed with their

post secondary credentials Despite the proliferation of credentials tailored to specific careers why do so many employers complain that the preparation of their new hires is inadequate Despite their investment in new programs meant to attract new enrollees why are so many colleges and universities facing issues with student persistence timely credential completion and career success The plan of the book reflects the authors practical aim In the first of three parts they offer a broad view of the credentials environment how credentials work how a proliferation in credentials has created an unprecedented array of educational choices and why this abundance is a mixed blessing In the second part they focus on categories of credentials from the associate degree to doctoral degrees to non degree credentials The book concludes with two chapters that consider the implications of the information the authors provide for leadership in volatile times one discusses the importance of maintaining a priority on equity the other offers 12 propositions for action To help make the book useful each chapter begins with a paragraph that summarizes the emphases to follow and ends with a list of initiatives i e takeaways that leaders and those attentive to what leaders are doing should consider

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[Lucky To Be Here](#) Dr. Patrick C. Horton,2024-05-29 When Dr Patrick C Horton was wounded on the battlefield during Operation Iraqi Freedom his life was endangered in more ways than one The brush with death woke him up to what takes many people a lifetime to discover We are lucky to be here and it is our sacred opportunity to figure out what we want to achieve With candor and insight Dr Horton outlines how living with leadership character passion and determination helped him leave behind the foibles of his youth to achieve executive and entrepreneurial success Even more importantly he outlines how readers can pinpoint and pursue their own goals for an unapologetically successful existence in which they too feel lucky to be here

Peter Norton's Introduction to Computers Fifth Edition, Computing Fundamentals, Student Edition McGraw-Hill Education,2002-10-07 Peter Norton s Introduction to Computers 5th Edition is a state of the art series that provides comprehensive coverage of computer concepts This series is new for the High School market It is generally geared toward Computer Science departments and students learning about computer systems for the first time Some of the topics covered are an Overview of computers input methods and out put devices processing data storage devices operating systems software networking Internet resources and graphics

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Cisco CCNA Command Guide For Beginners And Intermediates Craig Berg,2021-01-18 Are you about to do the CCNA Routing and Switching examination but still feel like you do not have what it takes to ace it with confidence especially because still don t understand how to use different commands And are you wondering what it takes to become a master in the networking industry If you answered YES keep reading You Have Just Discovered The Latest And Most Updated Guide That Will Help You Become A Master Cisco CCNA Networking Engineer In A Quick And Easy Way The Cisco CCNA certifications are one of the most valuable certifications in the field of communications and networks globally as having the certification shows that the holder has the necessary skills and knowledge to perform all the functions that a network administrator should The fact that you are reading this is a clear indicator that you want to enhance your knowledge of Cisco CCNA commands and you are probably looking for answers to all the questions in your mind like How do I connect devices to a network and what cable types do I need to use which commands should I use Can I still master Cisco CCNA if I am a beginner How do I convert an address from decimal to binary How do I configure different routers like a pro What are the different commands that I should use to configure different network devices and how do I enter these commands If you

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Windows system requirements minimum Windows 10 32 64 bit Windows 8 1 32 64 bit or Windows 7 32 64 bit 1 gigahertz GHz or faster 32 bit x86 or 64 bit x64 processor 1 GB RAM 32 bit or 2 GB RAM 64 bit 16 GB available hard disk space 32 bit or 20 GB 64 bit DirectX 9 graphics device with WDDM 1 0 or higher driver Adobe Acrobat Reader version 8 and above Mac system requirements minimum OS X 10 11 10 10 10 9 or 10 8 Intel core Duo 1 83 GHz 512 MB RAM 1 GB recommended 1 5 GB hard disk space 32 bit color depth at 1024x768 resolution Adobe Acrobat Reader version 8 and above

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