

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	800	800	800	800	800	800
	/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

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SJ Ball



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