









يختصر أكثر من مائــة ساعة يركز على احتياجات المهندسين في سوق العمل



© 2020 All Rights Reserved Second Edition حقوق النشر والترجمة محضوظة





What is the purpose of the POST on router?

determine additional hardware has been added

locate an IOS image for booting set the configuration register

enable a TFTP server

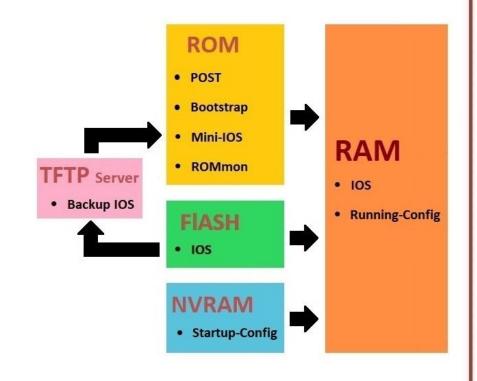
Which process search for IOS to load it into the router?

bootstrap

mini-IOS

ROMMON mode

POST







What is the sequence to find the IOS in the router?

Flash, TFTP server, ROM

NVRAM, TFTP server, ROM

TFTP server, Flash, ROM

ROM, Flash, TFTP server

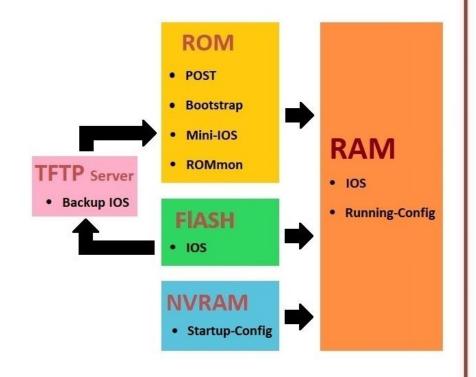
Which command is used to backup IOS to TFTP server?

Copy flash tftp

Copy tftp flash

Copy ios tftp

Copy nvram tftp







Which command is used to erase everything on router?

Write erase

Erase data

Erase things

Delete data

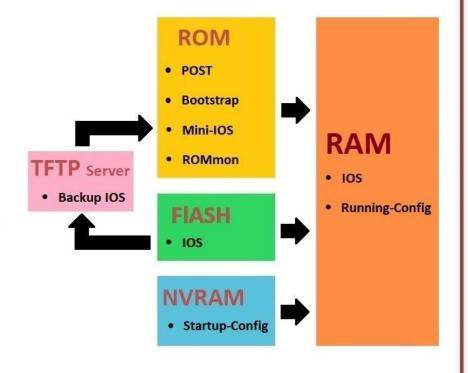
Which command is used to change hostname on Cisco?

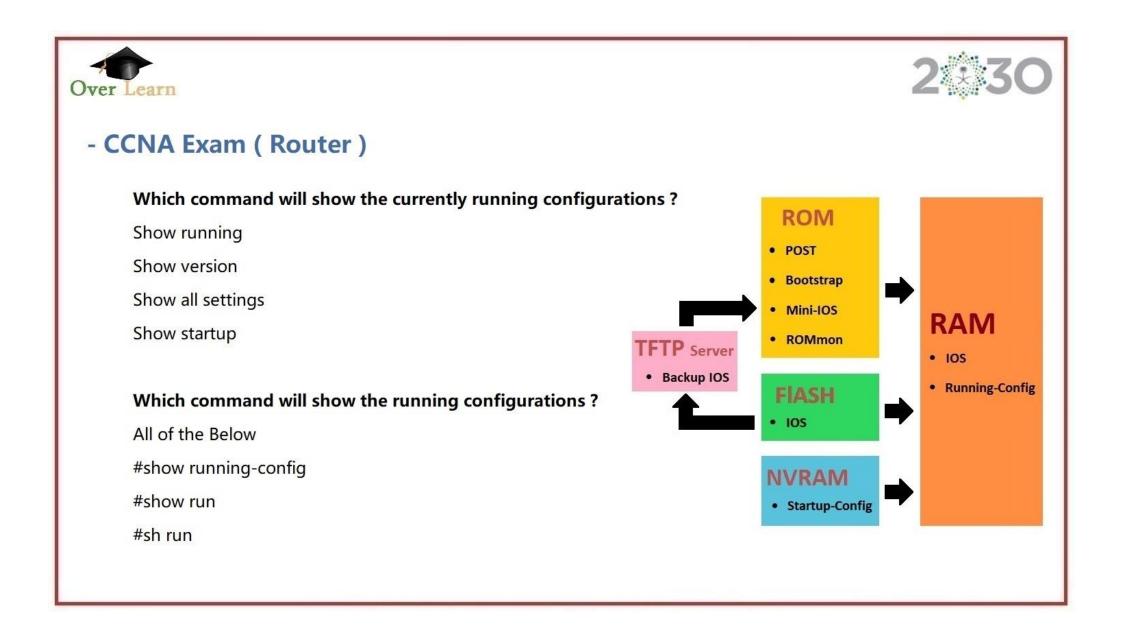
Hostname

change host

Host new

New hostname









How to put enable password on Cisco router?

R1(config)# enable password password

R1(config)# write password enable

R1(config)# enable secret

R1#enable password password

How can you check if F1/0 is down?

R1#show ip interface F1/0

R1# show run

R1#show ip F1/0

R1(config)# show interface F1/0







Which command which on the F0/1 interface?

R1(config-if)#no shut

R1(config-if)#on

R1(config)#F0/1 no shut

R1(config-if)#serial 0/1 on



Which is the best method to use in accessing router in japan?

By using Telnet

By using Team Viewer

Cannot be connected

Need to go to Japan





Which command can set the timer in Console or VTY to 3 minutes and 10 seconds?

(config-line)#exec-timeout 3 10

(config-line)#no exec-timeout

(config)#exec-timeout 3 10



How do I stop a CLI from translate the wrong comamand?

Router(config)# no ip domain-lookup

Router(config)# no domain

Router# stop domain

IOS Command Line

Router# sow

Translating "sow"...domain server (255.255.255) % Name lookup aborted

Router#



Which of the following is routed protocol?

IP

IPX

Rip

BGP

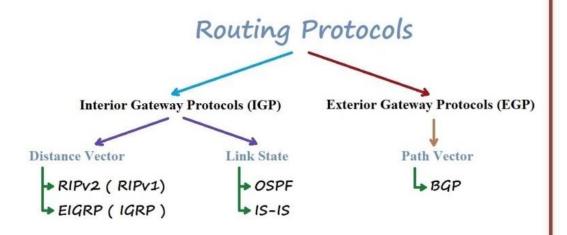
Which of the following is routing protocol?

Rip

BGP

IP

IPX







Which one of the following is exterior gateway protocol?

BGP

RIP

IGRP

EIGRP

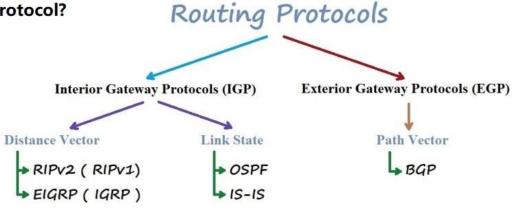
At which layer of OSI routing protocol work?

Network

Transport

Data link

Presentation







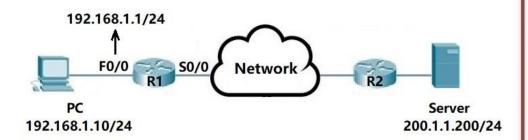
Which command is used to see R1 routing table?

R1#show ip route

R1#show ip routing

R1#show routing table

R1#show table



If R1 Received packet with destination 192.168.1.255, What He will Do?

R1 will drop this packet because this is not a valid IP

R1 will forward the packet out all interfaces.

R1 forwards the frame

R1 will ecapsulate the packet





PC Must access files on the Server.

What command could be configured on R1?

ip route 0.0.0.0 0.0.0.0 SO/0

ip route 0.0.0.0 0.0.0.0 200.1.1.200

ip route 200.1.1.200 255.255.255.0 192.168.1.1

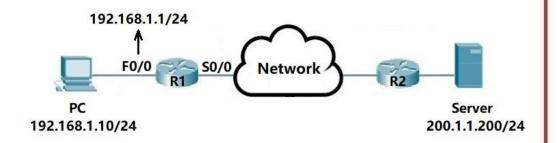
ip route 192.168.1.0 255.255.255.0 200.1.1.200

Pc Cannot Reach the server, Why?

Static route is configured incorrectly

IP route is not Enable

Fastethernet is disable



R1 # show ip route

Codes: C - connected, S - static, I - IGRP, R - RIP,
D - EIGRP, EX - EIGRP external, O - OSPF, IA N1 - OSPF NSSA external type 1, N2 - OSPF type 2
Gateway of last resort is 172.19.22.2 to network 0.0.0.0

- C 192.168.1.0 is directly connected, FastEthernet0/0
- C 172.18.22.0 is directly connected, Serial0/0
- s* 0.0.0.0/0 [1/0] via 172.19.22.2





Refer to exhibit. If R1 recieves a packet destined to 172.16.1.1, to which IP address does it send the packet?

192.168.14.4

192,168,12,2

192.168.13.3

192.168.15.5

What will be the Administrative distance (AD) of directly connected interfaces?

0

1

90

110

```
Rl@show ip route

Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
        D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter
        N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external
        E1 - OSPF external type 1, E2 - OSPF external type 2

Gateway of last resort is 192.168.14.4 to network 0.0.0.0

C 192.168.12.0/24 is directly connected, FastEthernet0/0
        C 192.168.13.0/24 is directly connected, FastEthernet0/1
        C 192.168.14.0/24 is directly connected, FastEthernet1/0
        192.168.10.0/24 is variably subnetted, 3 subnets, 3 masks
        O 192.168.10.0/24 is variably subnetted, 3 subnets, 3 masks
        O 192.168.10.32/27 [110/1] via 192.168.14.4, 00:02:01, F1/0
        O 192.168.0.0/16 [110/2] via 192.168.13.3, 00:00:52,F0/1
        O 192.168.0.0/16 [110/2] via 192.168.15.5, 00:05:01, F1/1
        D 192.168.10.1/32 [90/52778] via 192.168.12.2 00:03:44, F0/0
        O*E2 0.0.0.0/0 [110/1] via 192.168.14.4, 00:00:10, F1/0
```





What is the main reason of using RIP?

For small network

Easy to manage

Support all features

All of the above

What is the main disadvantage of RIPv2?

RIPv2 cannot work with large network

RIPv2 doesnot support classless routing

RIPv2 is not compatible of all routers

None of the above

Rip version			
Ripv1	Ripv2	Ripng	
IPv4	IPv4	IPV6	
Classfull	VLSM	VLSM	
15 hop	15 hop	15 hop	
broadcasts	multicast	multicast	
N.N.N.255	224.0.0.9	FF02::9	
UDP(520)	UDP(520)	UDP(521)	
	MD5	MD5	





RIPv2 is _____

Distance vector

Hybird

Link state

None of the above

What is the administrative distance of RIP V1?

120

90

20

0

Rip version			
Ripv1	Ripv2	Ripng	
IPv4	IPv4	IPV6	
Classfull	VLSM	VLSM	
15 hop	15 hop	15 hop	
broadcasts	multicast	multicast	
N.N.N.255	224.0.0.9	FF02::9	
UDP(520)	UDP(520)	UDP(521)	
	MD5	MD5	





You are using RIPng in your company, what is the purpose?

Support IPv6

Support IPv4

Support VLSM

Support Multicasting

How many hop limits does RIPv2 supports?

15

14

16

255

Rip version			
Ripv1	Ripv2	Ripng	
IPv4	IPv4	IPV6	
Classfull	VLSM	VLSM	
15 hop	15 hop	15 hop	
broadcasts	multicast	multicast	
N.N.N.255	224.0.0.9	FF02::9	
UDP(520)	UDP(520)	UDP(521)	
	MD5	MD5	





Refer to exhibit. route 10.1.1.0 is marked invlid on R1, How much time is left before that route is removed from the routing table?

60 seconds

30 seconds

180 seconds

240 seconds

Which command can enable Rip?

R(config)#Router Rip

R(config)#Enable Rip

R(config)#Rip

R1# show ip protocols

Routing Protocol is "rip"

Sending updates every 30 seconds, next due in 8 seconds Invalid after 180 seconds, hold down 180, flushed after 240 Outgoing updates filter list for all interfaces is not set Incoming update filter for all interfaces is not set <output omitted>

R1#





Refer to the exhibit. IP 172.16.10.0 not advertise, Which command will correct the problem?

Enable RIPv2

Enable passive interface

Enable manual summarization

Enable autosummarization

Which command will broadcast your R1 interface in Rip v2?

R(config-router)#Network x.x.x.x

R(config-router)#Broadcast x.x.x.x

R(config-router)#RIP Network x.x.x.x

R(config-router)#IP x.x.x.x

R1 interface F0/0 IP addres 172.16.10.1 255.255.255.0

Router rip network 172.16.0.0 no auto-summary





EIGRP is _____

Hybrid

Distance vector

Link state

None of the above

Which multicast address is used for sending routing information in EIGRP?

224.0.0.10

224.0.0.9

224.0.0.8

224.0.0.7

Eigrp

VLSM

224 hop

Multicast

224.0.0.10

Authentication (MD5)

RTP to send Packets





Which type of EIGRP route describes feasible successor?

backup route, stored in the topology table primary route, stored in the routing table backup route, stored in the routing table primary route, stored in the topology table

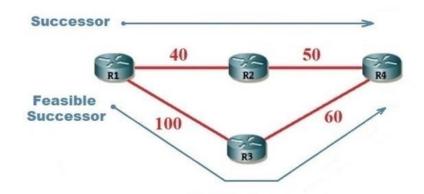
What is the administrative distance of Internal EIGRP?

90

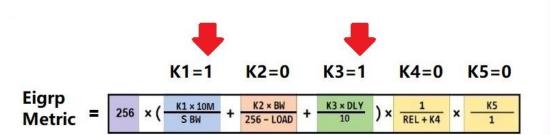
120

5

0



How many type of metrics are in EIGRP?



What is the default value of K4 in EIGRP metric?





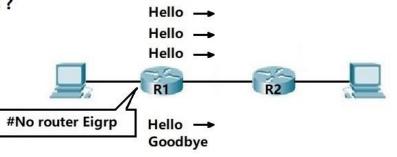
Which EIGRP command view the IP adresses of the neighbors?

#show ip eigrp neighbors

#show ip eigrp interfaces

#show ip neighbors

#show ip eigrp traffic



Which packet tells EIGRP neighbors to Stop the relationship?

Hello: Goodbye messages

successors

advertised changes

expiration of the hold timer





What does OSPF stands for?

Open Shortest path First

Open Slowest Path First

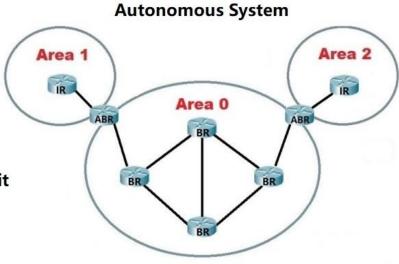
Open Speed Path First

Open Selected path first

An Autonomous system of OSPF can have multiple areas in it

True

False







Which area is reserved as backbone area in OSPF?

Area 0

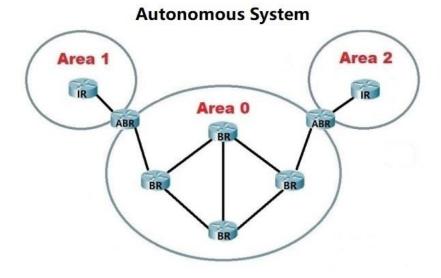
Area 1000

Area 1

Area 0.0.0.0

Which statement describes the process ID of OSPF?

used to identify the OSPF database used to represent the AS number used to identify the areas must be the same in all areas







What is the purpose of ABR In OSPF network?

It is a router which connect one or more areas to backbone area
It is a router which is connected to more than one router
It is a routers have neighbour relationship in the same area
None

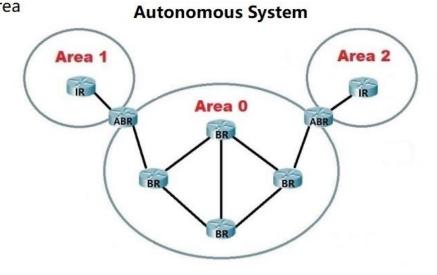
What will be the wildcard mask for IP 168.231.0.7/24?

0.0.0.255

0.0.0.254

0.0.7.255

0.0.3.255







What is the range of priority when selecting DR or BDR?

1-255

0-255

10-255

0 - 1

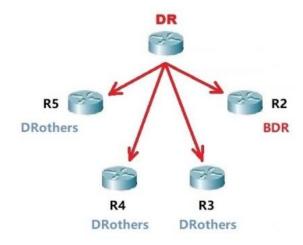
When a DR fails, and BDR takes over, what is the next selection?

To select BDR

To select BROthers

To select DR

To select AS







OSPF configuration of routers R1 and R2. The routers cannot establish relationship, based on the information in the graphic, What is the cause of this problem?

The hello and dead timers are not configured properly
The OSPF area is not configured properly
The piority on R1 should be set higher
The cost on R1 should be set higher

R1: Ethernet0 is up, line protocol is up
Internet address 192.168.1.2/24, Area 0
Process ID 1, Router ID 192.168.31.33, Network Type BROADCAST, Cost: 10
Transmit Delay is 1 sec, State DR, Priority 1
Designated Router (ID) 192.168.31.33, Interface address 192.168.1.2
No backup designated router on this network
Timer intervals configured, Hello 5, Dead 20, Wait 20, Retransmit 5

R2: Ethernet0 is up, line protocol is up
Internet address 192.168.1.1/24, Area 0
Process ID 2, Router ID 192.168.31.11, Network Type BROADCAST, Cost: 10
Transmit Delay is 1 sec, State DR, Priority 1
Designated Router (ID) 192.168.31.11, Interface address 192.168.1.1
No backup designated router on this network
Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5





Refer to the exhibit, what summary address would be sent from R1?

172.16.0.0/16

172.16.0.0/20

172.64.0.0/16

172.64.128.0/24

R1 and R4 cannot establish an adacency in OSPF, What is causing the problem?

There is an area ID mismatch

There is an encapsulation mismatch

There is an OSPF hello mismatch

R1#show running-config

interface Serial1/0 ip address **172.16.32.2** 255.255.255.252 encapsulation ppp ip ospf 3 area 0

R4#show running-config

interface Serial1/0 ip address 172.16.32.1 255.255.255.252 encapsulation ppp ip ospf 4 area 2





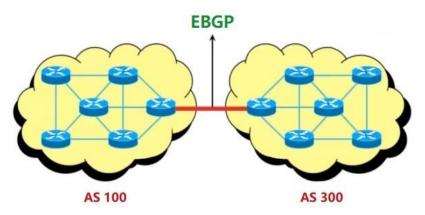
What is the default admin distance for eBGP?

20

10

200

120



What routing protocol code does the routing table use for eBGP?

В

C

D

E





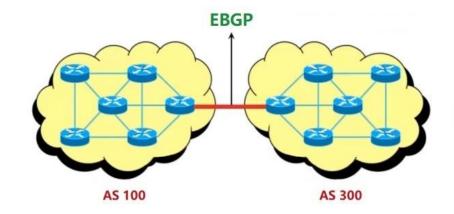
What command to verify that your eBGP relationship has formed?

show ip bgp summary

show ip community-list

show ip bgp paths

show ip route



What command do you use to form a BGP peering?

neighbor

Network

peer

adjacency