

100-105^{Q&As}

Interconnecting Cisco Networking Devices Part 1 (ICND1)

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QUESTION 1

You work for a company that provides managed network services, and of your real estate clients running a small office is experiencing network issues, Troubleshoot the network issues.

Server1 and Server2 are placed in VLAN 100 and 200 respectively, and dare still running router on stick configuration with router R2.

You have console access on R1, R2, R3, and L2SW1 devices.

Use only show commands to troubleshoot the issues.

Instructions

Enter IOS commands on the device to verify network operation and answer the multiple-choice questions.

This task does not require device configuration.

Click the device icon to gain access to the console of the device. No console or enable passwords are required.

To access the multiple-choice questions, click the numbered boxes on the left of the top panel.

There are four multiple-choice questions with this task. Be sure to answer all four questions before clicking Next.







R1 interface Ethernet0/0 description ***Link to ISP*** ip address 209.165.201.1 255.255.255.224 ip nat outside ip virtual-reassembly in ! interface Ethernet0/1 description ***Link to LAN*** ip address 172.16.16.1 255.255.255.0 ip nat inside ip virtual-reassembly in ! interface Ethernet0/2 description ***Link to R2*** ip address 172.16.14.1 255.255.255.252 ip nat inside ip virtual-reassembly in ! interface Ethernet0/3 no ip address shutdown ! router rip version 2	
network 172.16.0.0 default-information originate no auto-summary ip forward-protocol nd i no ip http server no ip http server ip nat inside source list LOCAL interface Ethernet0/0 overload ip route 10.10.10.0 255.255.255.0 172.16.14.2 200 i ip access-list standard LOCAL permit 10.0.0.0 0.255.255.255 permit 172.16.0.0 0.0.255.255	ert.com
permit 192.168.0.0 0.0.255.255	ekcer
end R1#5how interfaces Ethemet0/0 is up, line protocoli s up Hardware is AudP2, address is aabb.cc00.4100 (bia aabb.cc00.4100) Description: ***Link to ISP*** Internet address is 209.165/201.127 MTU 1500 bytes, BU 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, txload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec)	



R1 ARP type: ARPA, ARP Timeout 04:00:00 Last input 00:00:53, output 00:00:07, output hang never Last clearing of ''show interface'' counters never Input queue: 0/75/0/0 (site/max/drops/flushes); Total output drops: 0 Input queue: 0//30/0 (site/max/drops/husnes); Queueing strategy: fifo Output queue: 0/40 (size/max) 5 minute input rate 0 bits/sec, 0 packets/sec 5 minute output rate 0 bits/sec, 0 packets/sec 40 packets input, 11786 bytes, 0 no buffer Received 39 broadcasts (0 IP multicasts) 0 runts, 0 giants, 0 throttles 0 input errors 0. CBC 0. forme 0 output 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored 0 input packets with dribble condition detected 191 packets output, 20271 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 4 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Ethernet0/1 is up, line protocol is up Hardware is AudP2, address is aabb.cc00.4110 (bia aabb.cc00.4110) Description: ***Link to LAN*** Description - Entry 62.16.16.1/24 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, txload 1/255, rxload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP type: ARPA, ARP Timeout 04:00:00 Last input never, output never, output hang never Last clearing of ''show interface'' counters never Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0 Queueing strategy: fifo Output queue: 0/40 (size/max) 5 minute input rate 0 bits/sec, 0 packets/sec 5 minute output rate 0 bits/sec, 0 packets/sec

reliability 255/255, txload 1/255, txload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP type: ARPA, ARP Timeout 04:00:00 Last input never, output hang never Last clearing of ''show interface'' counters never Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0 Queueing strategy: fifo Output queue: 0/40 (size/max) 5 minute input rate 0 bits/sec, 0 packets/sec 5 minute output rate 0 bits/sec, 0 packets/sec	* com
R1	
0 packets input, 0 bytes, 0 no buffer Received 0 broadcasts (0 IP multicasts) 0 runts, 0 giants, 0 throthes 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored 0 input packets with dribble condition detected 245 packets output, 30725 bytes, 0 underruns 0 output errors, 0 collisions, 4 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Ethernet0/2 is up, line protocol is up Hardware is AudP2, address is aabb.cc00.4120 (bia aabb.cc00.4120) Description: ***Link to R2*** Internet address is 172.16.14.130 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, txload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP type: ARPA, ARP Timeout 04:00:00 Last input 00:00:16, output 00:00:07, output fram ever Last clearing of ''show interface'' counters never Input queue: 0/75/0/0 (size/max) 9 minute input rate 0 bit/sec, 0 packets/sec 5 minute output rate 0 bit/sec, 0 packets/sec 5 minute output rate 0 bit/sec, 0 packets/sec 5 minute output rate 0 bit/sec, 0 packets/sec 98 packets input, 20097 bytes, 0 no buffer Received 97 broadcasts (54 IP multicasts) 0 runts, 0 giants, 0 throthes 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored 0 input errors, 0 clisions, 1 interface resets 4 unknown protocol drops 0 babbles, 0 late collision, 0 deferred	ekcer





R2	
R2#show run R2#show running-config Building configuration	
Current configuration : 1505 bytes	
! version 15.2 service timestamps debug datetime msec service timestamps log datetime msec no service password-encryption	
! hostname R2	
! boot-start-marker boot-end-marker !	
! no aaa new-model clock timezone PST -8 0 nni polling-interval 60 no nni auto-configure no nni pyc nni snmp-timeout 180 !	
1	
	COV
ip cef no ipv6 cef !	
R2	
multilink bundle-name authenticated	
1	
	0
! redundancy	
interface Ethernet0/0 description ***Link to R3*** ip address 172.16.11.1 255.255.252.252.252.252.252.252.252.252	
interface Ethemet0/1 no ip address	
! interface Ethernet0/1.1 description ***Link to Management Segment*** encapsulation dot10 1 native	
ip address 192.168.1.1 255.255.255.0 !	



<pre>interface Ethernet01.100 description =***.tkk 0.Sever1 Segment*** encapsulation dot10.200 description =***.tkk 0.Sever1 Segment*** encapsulation dot10.200 description =****.tkk 0.Sever1 Segment*** encapsulation dot10.100 p dotes 10:12.10.14.2 325.255.25.0 interface Ethernet072 epidems 10:10.10.1 255.255.255.0 interface Ethernet073 description =****.tkk 0.Sever1 Segment*** p address 10:10.10.1 255.255.255.0 interface Ethernet073 description =****.tkk 0.Sever1 Segment*** p address 10:10.10.1 255.255.255.0 interface Ethernet073 description =****.tkk 0.Sever1 Segment*** p address 10:10.10.1 255.255.255.0 interface Ethernet073 description =****.tkk 0.Sever1 Segment*** p address 10:10.10.1 255.255.255.0 interface Ethernet073 description =****.tkk 0.Sever1 p address 10:10.10.1 255.255.255.0 interface Ethernet073 description =****.tkk 0.Sever1 p address 10:10.10.1 255.255.255.0 interface Ethernet073 description =****.tkk 0.Sever1 p address 10:10.10.1 255.255.255.0 interface Ethernet073 description =****.tkk 0.Sever1 p address 10:10.10.1 255.255.255.0 interface Ethernet073 description =***** into 10.Sever1 interface Ethernet073 description =**** into 10.Sever1 interface Ethernet073 description =***** into 10.Sever1 interface Ethernet073 descripti</pre>
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<pre>measure address is 12.16.10 to 25.25.25.0 incfrace Element01.200 incfrace Element02 description ***Lifk to 8.10.1 to 25.25.25.0 incfrace Element02 description ***Lifk to 8.11*** p address 10.10.10.1 25.25.25.0 rotter thg p deferse 10.10.00 betwork 122.16.00 betwork 122.16.0.0 betwork 122.16.0.0 betwork 122.16.0.0 betwork 122.16.0.0 betwork 122.16.0.0 betwork 122.16.0.10 betwork 122.16.0.10 betwork 122.16.0.10 betwork 122.16.0.10 betwork 122.16.0.10 betwork 122.16.10 betw</pre>
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R2 R2 Record 0 reduction plane red red
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description ***Link to Server2 Segment*** encopsultion doubt 100 p address 192.168 200.1 255.255.255.0 interface Ethermet07 p address 172.16.142 255.255.255.0 p address 172.16.142 255.255.255.0 p address 10.10.1 255.255.255.0 p address 10.20.10 p address 10.20.10 p address 12.165.20.0 p address 12.10.10 p address 12.165.20.0 p address 12.11.10 p
description ***Link to Server2 Segment*** encopsultion doubt 100 p address 192.168 200.1 255.255.255.0 interface Ethermet07 p address 172.16.142 255.255.255.0 p address 10.10.1 255.255.255.0 p address 10.20.10.1 255.255.255.0 p address 10.20.10.10.1 255.255.255.0 p address 10.20.10.10.1 255.255.255.0 p address 10.20.10.10.1 255.255.255.0 p address 10.20.10.10.1 255.255.255.0 p address 10.20.10.10.1255.255.255.0 p address 10.20.10.10.1255.255.255.255.255.255.255.255.255.25
<pre>exceptibilities dotto 100 interface Eliterate0/2 description ***Link to R1*** ip address 10.16.14.2 325.255.255.25 rotter rip description ***Link to LAN*** ip address 10.16.10.1 255.255.255.00 rotter rip version 2.2 metwork 127.16.0.0 metwork 127.16.0.0</pre>
<pre>paddress 102.168.200.1 255.255.255.0 interface Ethemet0/2 description ***Link to R1*** paddress 172.16.14.2 255.255.255.0 interface Ethemet0/3 description ***Link to LAN**** paddress 10.10.1 255.255.255.0 interface Ethemet0/3 network 192.168.10.0 network 192.168.10.0 network 192.168.10.0 network 192.168.10.0 network 192.168.10.0 no ip http secure-server i interface Ethemet0/3 description ***Link to R1*** into the ethemetory if the ethe</pre>
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description ***Link to R1*** p address 172.16.14.2 225.252.252.25 interface Etheret0/3 description **Link to LAX*** p address 10.10.10.1252.252.25 received 192.168.10 network 192.168.100 network 192.168.100 network 192.168.100 network 192.168.100 no julty secure- no gulty secure- server description ***Link to R3*** received received to the subscetor 400 (bit author.ceto.4200) Description ***Link to R3*** Interest address is 112.10.11.109 Hardware is Aud?2. address is mable.ceto.4200 (bit author.ceto.4200) Description ***Link to R3*** Interest address is 112.10.11.109 Hardware is Aud?2. address is mable.ceto.4200 (bit author.ceto.4200) Description ***Link to R3*** Interest address is 112.10.11.109 Hardware is Aud?2. address is mable.ceto.4200 (bit author.ceto.4200) Description ***Link to R3*** Interest address is 112.10.11.109 Mardware is Aud?2. Address is mable.ceto.4200 (bit author.ceto.4200) Description ***Link to R3*** Interest address is 112.10.11.109 Mardware is Aud?2. Address is mable.ceto.4200 (bit author.ceto.4200) Description ***Link to R3*** Interest address is 112.10.11.109 Mardware is Aud?2. Address is mable.ceto.4200 (bit author.ceto.4200) Description ***Link to R3*** Interest address is 112.10.11.109 Mardware is Aud?2. Address is mable.ceto.4200 (bit author.ceto.4200) Description ***Link to R3*** Interest address is 112.10.11.109 Mardware is Aud?2. Address is mable.ceto.4200 (bit author.ceto.4200) Description ***Link to R3*** Interest address is 112.10.11.109 Mardware is Aud?2. Address is mable.ceto.4200 (bit author.ceto.4200) Description ***Link to R3***
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<pre>paddress 172.16.142 255.255.252 1 interface Ethemet0/3 description **** interface Ethemet0/3 description **** interface Ethemet0/3 description **** interface 100.00 network 172.16.010 network 172.16</pre>
R2 information
Interface Ethemet0/3 description ***Link to LAN*** ip address 10.10.10.1 255.255.255.0 router rip version 2 network 192.168.10.0 network 192.168.10.0 network 192.168.20.0 on auto-summy ip forward-protocol nd in or jultip secure-server i control-plane i control-plane i t control-plane i control-plane
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router tip version 2 network 12.16.0 network 192.163.10.0 network 192.163.10.0 network 192.163.20.0 no auto-summy i p forward-protocol nd i no ip http secure-server i control-plane
<pre>version 2 network 10.0.0.0 network 172.163.1.0 network 192.163.10.0 network 192.163.10.0 network 192.163.10.0 no auto-summy p forward-protocol nd no ip http secure-server control-plane</pre>
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no ip htip secure-server i control-plane ime con 0 login synchronous line atx 0 line tx 0 line tx 0 lend R2#show interfaces Ethernet(0) is up, line protocol is up Hardware is AudP2, address is abb, cc00.4200 (bin abb cc00.4200) Description:***Link to R3*** Internet address is 172.16.11.1/30 MTU 1500 bytes, BW 10000 Kbit/sec, DLX 1000 usec, reliability 252/55, Ktoka 1/255, Encapsulation ARPA, loopback not set Keepalive st (10 sec)
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Encapsulation ARPA, loopback not set Keepalive set (10 sec)
Keepalive set (10 sec)
Keepalive set (10 sec)
ADD SHOW ADD THE ADD T
AKPIVDE AKPA, AKPI IMEONU 40000
Last input 00:00:32, output 00:00:08, output hang never
Lass input vo.vo.2, output to to vo.vo, output lang level
Last clearing of ''show interface'' counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
Sinjute input rate 0 bits/sec, 0 packets/sec
o minute input rate o bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
50 packets input, 15683 bytes, 0 no buffer
Received 50 broadcasts (0 IP multicasts)
0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 input packets with dribble condition detected
343 packets output, 42566 bytes, 0 underruns
0 output errors, 0 collisions, 1 interface resets



R2	
2 unknown protocol drops	
0 babbles, 0 late collision, 0 deferred	
0 lost carrier, 0 no carrier	
0 output buffer failures, 0 output buffers swapped out	
Ethernet0/1 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210)	
MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,	
reliability 255/255, txload 1/255, rxload 1/255	
Encapsulation ARPA, loopback not set	
Keepalive set (10 sec)	
ARP type: ARPA, ARP Timeout 04:00:00	
Last input 00:00:00, output 00:00:08, output hang never Last clearing of "show interface" counters never	
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0	
Queueing strategy: fifo	
Output queue: 0/40 (size/max)	
5 minute input rate 1000 bits/sec, 2 packets/sec	
5 minute output rate 0 bits/sec, 0 packets/sec 4632 packets input, 308536 bytes, 0 no buffer	
Received 4421 broadcasts (0 IP multicasts)	
0 runts, 0 giants, 0 throttles	
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored	
0 input packets with dribble condition detected	
512 packets output, 73148 bytes, 0 underruns	
0 output errors, 0 collisions, 0 interface resets 73 unknown protocol drops	
0 babbles, 0 late collision, 0 deferred	
0 lost carrier, 0 no carrier	
0 output buffer failures, 0 output buffers swapped out	
Ethernet0/1.1 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210)	
Description: ***Link to Management Segment***	
Internet address is 192.168.1.1/24	
MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,	
reliability 255/255, txload 1/255, rxload 1/255	
Encapsulation 802.10 Virtual LAN, Vlan ID 1.	
ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec)	
R2	
Last classing of Perham interface?? counters paren	
Last clearing of 'show interface' counters never Ethernet0/1.100 is up, line protocol is up	
Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210)	
Description: ***Link to Server Segment***	
Internet address is 192.168.100.1/24	
MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,	
reliability 255/255, txload 1/255, rxload 1/255 Encapsulation 802.10 Virtual LAN, Vlan ID 200.	
ARP type: ARPA, ARP Timeout 04:00:00	
ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec)	
ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never	
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ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethernet0/1.200 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210) Description: ***Link to Server2 Segment***	
ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethernet0/1.200 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210)	
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ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethernet0/1.200 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210) Description: ***Link to Server2 Segment*** Internet address is 192.168.200.1/24 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec reliability 255/255, txload 1/255, rxload 1/255 Encapsulation 802.10 Virtual LAN, Vlan ID 160.	
ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethemet0/1.200 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210) Description: ***Link to Server2 Segment*** Internet address is 192.168.200.1/24 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec reliability 255/255, txload 1/255 Encapsulation 802.10 Virtual LAN, Vlan IB 100 ARP type: ARPA, ARP Timeout 04:00:00	
ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethemet0/1.200 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210) Description: ***Link to Server2 Segment*** Internet address is 192.168.200.1/24 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec reliability 255/255, txload 1/255, rxload 1/255 Encapsulation 802.10 Virtual LAN, Vlan ID 100 ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec)	
ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethemet0/1.200 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210) Description: ***Link to Server 2 Segment*** Internet address is 192.168.200.1/24 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec reliability 255/255, txload 1/255, rxload 1/255 Encapsulation 802.10 Virtual LAN, Vlan ID 100; ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface' counters never	
ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethemet0/1.200 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210) Description: ***Link to Server2 Segment*** Internet address is 192.168.200.1/24 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec reliability 255/255, txload 1/255, rxload 1/255 Encapsulation 802.10 Virtual LAN, Vlan ID 100 ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec)	
ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethernet0/1.200 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210) Description: ***Link to Server2 Segment*** Internet address is 192.168.200.1/24 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec reliability 255/255, txload 1/255, rxload 1/255 Encapsulation 802.10 Virtual LAN, Vlan ID 160; ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface' counters never Ethernet0/2 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4220 (bia aabb.cc00.4220) Description: ***Link fo R1**'	
ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethemet0/1.200 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210) Description: ***Link to Server2 Segment*** Internet address is 192.168.200.1/24 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000-usec reliability 255/255, txload 1/255, rxload 1/255 Encapsulation 802.10 Virtual LAN, Vlan ID 100 ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface' counters never Ethemet0/2 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4220 (bia aabb.cc00.4220) Description: ***Link to R1*** Internet address is 172.16.14.230	
ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethemet0/1.200 is up, line protocol is up Hardware is AmdP2, address is abb.cc00.4210 (bia aabb.cc00.4210) Description: ***Link to Server2 Segment*** Internet address is 192.168.200.1/24 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec reliability 255/255, tcload 1/255, rcload 1/255 Encapsulation 802.10 Virtual LAN, Vlan ID 100 ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface' counters never Ethemet0/2 is up, line protocol is up Hardware is AmdP2, address is Aabb.cc00.4220 (bia aabb.cc00.4220) Description: ***Link fo R1*** Internet address is 172.16.14;230 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,	
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ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethemet0/1.200 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210) Description: ***Link to Server2 Segment*** Internet address is 192.168.200.1/24 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec reliability 255/255, tktoad 1/255, rkload 1/255 Encapsulation 802.10 Virtual LAN, Vlan HD 100: ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethemet0/2 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4220 (bia aabb.cc00.4220) Description: ***Link to R1*** Internet address is 172.16.14.2/30 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, tkload 1/255	
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ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethemet0/1.200 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210) Description: ***Link to Server2 Segment*** Internet address is 192.168.200.1/24 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec reliability 255/255, txload 1/255, rxload 1/255 Encapsulation 802.10 Virtual LAN, Vlan HD 100 ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface' counters never Ethemet0/2 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4220 (bia aabb.cc00.4220) Description: ***Link fo RI*** Internet address is 172.16.14.230 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, txload 1/255, rxload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP type: ARPA, ARP Timeout 04:00:00 Last input 00:00:08, output 00:00:00 Last input 00:00:08, output 00:00:02 ARP type: ARPA, ARP Timeout 04:00:00 Last input 00:00:08, output 00:00:02 ARP type: ARPA, ARP Timeout 04:00:00 Last input 00:00:08, output 00:00:02 Martu 1500 bytes, BW 1000 Kbit/sec, DLY 1000 usec, reliability 255/255, txload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP type: ARPA, ARP Timeout 04:00:00 Last input 00:00:08, output 00:00:02 ARP type: ARPA, output 00:00:02 Last clearing of ''show interface'' counters never	
ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethemet0/1.200 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210) Description: ***Link to Server 2 Segment*** Internet address is 192.168.200.1/24 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec reliability 255/25, tkload 1/255, rkload 1/255 Encapsulation 802.10 Virtual LAN, Vlan HD 100. ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethernet0/2 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4220 (bia aabb.cc00.4220) Description: ***Link fo R1*** Internet address is 172.16.14.2/30 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, tkload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP type: ARPA, ARP Timeout 04:00:00 Last input 00:00:08, output 00:00:02, output hang never Last clearing of ''show interface'' counters never Input queue: 07/50/0 (size/max/drops/flushes); Total output drops: 0	
ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethernet0/1.200 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210) Description: ***Link to Server2 Segment*** Internet address is 192.168.200.1/24 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec reliability 255/255, txload 1/255, rxload 1/255 Encapsulation 802.10 Virtual LAN, Vlan ID 160. ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface' counters never Ethernet0/2 is up, line protocol is up Hardware is AmdP2, address is abb.cc00.4220 (bia aabb.cc00.4220) Description: ***Link to R1*** Internet address is 172.16.14.2(30 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, txload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP type: ARPA, ARP Timeout 04:00:00 Last input 00:00:08, output 00:00:02, output hang never Last clearing of ''show interface'' counters never Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0 Queueing strategy: ffo	
ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethernet0/1.200 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210) Description: ***Link to Server2 Segment*** Internet address is 192.168.200.1/24 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec reliability 25/255, ktolad 1/255 Encapsulation 802.10 Virtual LAN, Vlan HD 100: ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethernet0/2 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4220 (bia aabb.cc00.4220) Description: ***Link to R1*** Internet address is 172.16.14.2/30 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 25/255, tkload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP type: ARPA, ARP Timeout 04:00:00 Last input 00:00:08, output 00:00:02, output hang never Last clearing of ''show interface'' counters never Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0	
ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface'' counters never Ethemet0/1.200 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210) Description: ***Link to Server 2 Segment*** Internet address is 192.168.200.1/24 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec reliability 25/255, tkload 1/255 Encapsulation 802.10 Virtual LAN, Vlan H) 100 ARP type: ARPA, ARP Timeout 04:00:00 Keepalive set (10 sec) Last clearing of ''show interface' counters never Ethemet0/2 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4220 (bia aabb.cc00.4220) Description: ***Link for R1*** Internet address is 172.16:14:230 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, tkload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP type: ARPA, ARP Timeout 04:00:00 Last clearing of ''show interface'' counters never Ethernet address is 172.16:14:230 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, tkload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP type: ARPA, ARP Timeout 04:00:00 Last input 00:00:08, output 00:00:02, output hang never Last clearing of ''show interface'' counters never Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0 Queueing strategy: fifo Output queue: 0/40 (size/max)	



R2	
128 packets input, 21994 bytes, 0 no buffer Received 127 broadcasts (77 IP multicasts) 0 runts, 0 giants, 0 throttles 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored 0 input packets with dribble condition detected 345 packets output, 39952 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Ethernet03 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4230 (bia aabb.cc00.4230) Description: ***1 ink to LAN*** Internet address is 10.10.10.1/24 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, tkload 1/255, rkload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP type: ARPA, ARP Timeout 04:00:00 Last input never, output never, output hang never Last clearing of ''show interface'' counters never Input queue: 0/75/0/0 (size/max)/drops/flushes); Total output drops: 0 Queueing strategy: fifo Output queue: 0/40 (size/max) 5 minute input rate 0 bits/sec, 0 packets/sec 5 minute input, 0 bytes, 0 no buffer Received 0 broadcasts (0 IP multicasts) 0 runts, 0 giants, 0 throttles 0 input reors, 0 CRC, 0 frame, 0 overrun, 0 ignored 0 input reors, 0 CRC, 0 frame, 0 overrun, 0 ignored 0 input reors, 0 collisions, 6 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 1 output reors, 0 collisions, 6 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out	
R2# R2# R2# R2# R2# show ip interface brief Interface IP-Address Ethemet0/0 172.16.11.1 Yes NVRAM up up Ethemet0/1 unassigned Yes NVRAM up up Ethemet0/1.100 192.168.100.1 Yes NVRAM up up Ethemet0/1.200 192.168.200.1 Yes NVRAM up up Ethemet0/1 100.10.10.1 Yes NVRAM up up R2# R2# R2# R2# N2 OSPF NSSA external type 1. N2 OSPF NSSA external type 2 i - IS-IS, su IS-IS sevel2 ia IS-IS sevel2 ia IS-IS sevel2 i	
R2 C 192.168.1.0/24 is directly connected, Ethernet 0/1.1 L 192.168.1.1/32 is directly connected, Ethernet 0/1.1 192.168.100.0/24 is variably subnetted, 2 subnets, 3 masks C 192.168.100.0/24 is directly connected, Ethernet 0/1.100 192.168.200.0/24 is variably subnetted, 2 subnets, 3 masks C 192.168.200.0/24 is directly connected, Ethernet 0/1.100 192.168.200.0/24 is variably subnetted, 2 subnets, 3 masks C 192.168.200.0/24 is directly connected, Ethernet 0/1.100 192.168.200.0/24 is directly connected, Ethernet 0/1.200 L 192.168.200.0/24 is directly connected, Ethernet 0/1.200 R2#	



R3 R3#show run R3#show running-config Building configuration	
Current configuration : 913 bytes	
! version 15.2 service timestamps debug datetime msec service timestamps log datetime msec no service password-encryption	
! hostname R3	
! boot-start-marker boot-end-marker !	
! !	
no aaa new-model clock timezone PST -8 0 nni polling-interval 60 no nni auto-configure	
no nni pvc nni snmp-timeout 180	
1	
1	
1	
! ip cef no ipv6 cef	CO.
1 1	
R3 !	CO
9 9 9	
1	
! ! !	
;	
redundancy	S.
redundancy	
redundancy	
redundancy	
redundancy	
redundancy interface Ethernet0/0 description ***Link to LAN*** ip address 10.10.12.1 255.255.252	
redundancy interface Ethemet0/0 description ***Link to LAN****	
redundancy interface Ethernet0/0 description ***Link to LAN*** ip address 10.10.12.1 255.255.252 interface Ethernet0/1 description ***Link to R2*** ip address 172.16.11.2 255.255.252 interface Ethernet0/2	
redundancy interface Ethernet0/0 description ***Link to LAN*** ip address 10.10.12.1 255.255.255.252 interface Ethernet0/1 description ***Link to R2*** ip address 172.16.11.2 255.255.255.252	



Ro	
! ip forward-protocol nd	
no ip http server	
no ip http secure-server	
1	
1	
! control-plane	
!	
1	
· !	
1	
line con 0	
logging synchronous	
line aux 0	
line vty 0 4 login	
transport input all	
1	
! end	
R3#show interfaces	
Ethernet0/0 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4300 (bia aabb.cc00.4300)	
Description: ***Link to LAN***	
Internet address is 10.10.12.1/24	
MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, txload 1/255, rxload 1/255	
Encapsulation ARPA, loopback not set	
Keepalive set (10 sec)	
ARP type: ARPA, ARP Timeout 04:00:00	
R3	
R3 !	CON
! ip forward-protocol nd	COL
1	Cert
! ip forward-protocol nd ! no ip http server	Cert
! ip forward-protocol nd ! no ip http server no ip http secure-server	KCelt
! ip forward-protocol nd ! no ip http server	KCelt
ip forward-protocol nd i no ip http server no ip http secure-server i	excelt
ip forward-protocol nd ino ip http server no ip http secure-server	excelt
ip forward-protocol nd i no ip http server no ip http secure-server i	excelt
ip forward-protocol nd ino ip http server no ip http secure-server i control-plane i	ekcelt
ip forward-protocol nd ino ip http server no ip http secure-server	excelt
ip forward-protocol nd ino ip http server no ip http secure-server	ekcelt
ip forward-protocol nd no ip http server no ip http secure-server control-plane	ekcelt
ip forward-protocol nd ino ip http server no ip http secure-server	excelt
ip forward-protocol nd no ip http server no ip http secure-server control-plane	ekcelt
ip forward-protocol nd no ip http server no ip http secure-server	ekcelt
ip forward-protocol nd ino ip http server no ip http secure-server control-plane line con 0 logging synchronous line aux 0 line vty 0 4	ekcelt
ine con 0 logging synchronous line aux 0 line vty 0 4 login	ekcelt
ip forward-protocol nd ino ip http server no ip http secure-server control-plane line con 0 logging synchronous line aux 0 line vty 0 4	ekcelt
ip forward-protocol nd no ip http server no ip http secure-server control-plane line con 0 logging synchronous line aux 0 line vty 0 4 login transport input all	
ine con 0 logging synchronous line vty 0 4 login transport input all	
ip forward-protocol nd no ip http server no ip http secure-server control-plane ine con 0 logging synchronous line aux 0 line vty 0 4 login transport input all end R3#show interfaces Ethernet0/0 is up, line protocol is up	ekcelt
ip forward-protocol nd no ip http server no ip http secure-server control-plane line con 0 logging synchronous line atx 0 line vty 0 4 login transport input all end R3#show interfaces Ethemet0/0 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4300 (bia aabb.cc00.4300)	ekcelt
<pre>ip forward-protocol nd ino ip http server no ip http secure-server i control-plane ine con 0 logging synchronous line aux 0 line vty 0 4 login transport input all end R3#show interfaces Ethemet0/0 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4300 (bia aabb.cc00.4300) Description: ***Link to LAN***</pre>	
ip forward-protocol nd no ip http server no ip http secure-server control-plane line con 0 logging synchronous line atx 0 line vty 0 4 login transport input all end R3#show interfaces Ethemet0/0 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4300 (bia aabb.cc00.4300)	
<pre>ip forward-protocol nd ino ip http server no ip http secure-server i control-plane i ine con 0 logging synchronous line aux 0 line aux 0 line ty 0 4 login transport input all end R3#show interfaces Ethemet0/0 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4300 (bia aabb.cc00.4300) Description: ***Link to LAN*** Internet address is 10.10.12.1/24 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, txload 1/255, rxload 1/255</pre>	
ip forward-protocol nd no ip http server no ip http secure-server control-plane ine con 0 logging synchronous line atx 0 line vty 0 4 login transport input all end R3#show interfaces Ethernet0/0 is up, line protocol is up Hardware is AmdP2, address is aabb.cc00.4300 (bia aabb.cc00.4300) Description: **Link to LAN*** Internet address is 10.10.12.1/24 MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,	



Last input never, output never, output hang never	
Last input never, output never, output nang never	
Last clearing of 'show interface'' counters never	
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0	
Queueing strategy: fifo	
Output queue: 0/40 (size/max)	
5 minute input rate 0 bits/sec, 0 packets/sec	
5 minute output rate 0 bits/sec, 0 packets/sec	
0 packets input, 0 bytes, 0 no buffer	
Received 0 broadcasts (0 IP multicasts)	
0 runts, 0 giants, 0 throttles	
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored	
0 input packets with dribble condition detected	
666 packets output, 71699 bytes, 0 underruns	
0 output errors, 0 collisions, 11 interface resets	
0 unknown protocol drops	
0 babbles, 0 late collision, 0 deferred	
0 lost carrier, 0 no carrier	
0 output buffer failures, 0 output buffers swapped out	
Ethernet0/1 is up, line protocol is up	
Hardware is AmdP2, address is aabb.cc00.4310 (bia aabb.cc00.4310)	
Description: ***Link to R2***	
Internet address is 172.16.11.2/30	
MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,	
reliability 255/255, txload 1/255, rxload 1/255	
Encapsulation ARPA, loopback not set	
Keepalive set (10 sec)	
ARP type: ARPA, ARP Timeout 04:00:00	
Last input 00:00:21, output 00:00:05, output hang never	
Last clearing of ''show interface'' counters never	
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0	
Queueing strategy: fifo	
Output queue: 0/40 (size/max) 5 minute input rate 0 bits/sec, 0 packets/sec	
5 minute output rate 0 bits/sec, 0 packets/sec	
316 packets input, 74089 bytes, 0 no buffer	
Received 316 broadcasts (200 IP multicasts)	
0 runts, 0 giants, 0 throttles	
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored	
R3	
0 input packets with dribble condition detected	
0 input packets with dribble condition detected 669 packets output, 71888 bytes, 0 underruns	
669 packets output, 71888 bytes, 0 underruns	
669 packets output, 71888 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets	
669 packets output, 71888 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops	NC O
669 packets output, 71888 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred	XCo
669 packets output, 71888 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier	KCo
669 packets output, 71888 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Ethernet0/2 is administratively down, line protocol is down Hardware is AmdP2, address is aabb.cc00.4320 (bia aabb.cc00.4320)	exco
669 packets output, 71888 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Ethernet0/2 is administratively down, line protocol is down Hardware is AmdP2, address is aabb.ccc0.4320 (bia aabb.cc00.4320) MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,	ekce
669 packets output, 71888 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Ethernet(0/2 is administratively down, line protocol is down Hardware is AmdP2, address is aabb.cc00.4320 (bia aabb.cc00.4320) MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, tkload 1/255	ekce
669 packets output, 71888 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Ethernet(0/2 is administratively down, line protocol is down Hardware is AmdP2, address is aabb.cc00.4320 (bia aabb.cc00.4320) MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, txload 1/255, rxload 1/255 Encapsulation ARPA, loopback not set	ekce
669 packets output, 71888 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Ethernet0/2 is administratively down, line protocol is down Hardware is AmdP2, address is aabb.cc00.4320 (bia aabb.cc00.4320) MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, txload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec)	ekce
669 packets output, 71888 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Ethernet0/2 is administratively down, line protocol is down Hardware is AmdP2, address is aabb.cc00.4320 (bia aabb.cc00.4320) MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, txload 1/255, rxload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP (type: ARPA, ARP Timeout 04:00:00	ekce
669 packets output, 71888 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Ethernet0/2 is administratively down, line protocol is down Hardware is AmdP2, address is aabb.cc00.4320 (bia aabb.cc00.4320) MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, tkload 1/255, rxload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP type: ARPA, ARP Timeout 04:00:00 Last input never, output haver, output hang never	ekce
669 packets output, 71888 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Ethernet0/2 is administratively down, line protocol is down Hardware is AmdP2, address is aabb.cc00.4320 (bia aabb.cc00.4320) MTU 1500 bytes, BW 10000 Kbi/tsce, DLY 1000 usec, reliability 255/255, txload 1/255, rxload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP type: ARPA, ARP Timeout 04:00:00 Last input never, output never, output hang never Last clearing of 'show interface'' counters never	ekce
669 packets output, 71888 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Ethemet0/2 is administratively down, line protocol is down Hardware is AmdP2, address is aabb.cc00.4320 (bia aabb.cc00.4320) MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, txload 1/255, rxload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP (type: ARPA, ARP Timeout 04:00:00 Last input never, output never, output hang never Last clearing of ''show interface'' counters never Input queue: 07/5/00 (size/max/drops/fushes); Total output drops: 0	ekce
669 packets output, 71888 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Ethernet0/2 is administratively down, line protocol is down Hardware is AmdP2, address is aabb.cc00.4320 (bia aabb.cc00.4320) MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, rkload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP type: ARPA, ARP Timeout 04:00:00 Last input never, output never, output hang never Last clearing of "show interface" counters never Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0 Queueing strategy: fito	ekce
669 packets output, 71888 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Ethernet0/2 is administratively down, ine protocol is down Hardware is AmdP2, address is aabb.cc00.4320 (bia aabb.cc00.4320) MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, txload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP type: ARPA, ARP Timeout 04:00:00 Last input never, output never, output hang never Last clearing of "show interface" counters never Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0 Queueing strategy: fifo Output queue: 0/40 (size/max)	ekce
669 packets output, 71888 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Ethernet0/2 is administratively down, line protocol is down Hardware is AmdP2, address is aabb.cc00.4320 (bia aabb.cc00.4320) MTU 1500 bytes, BW 10000 Kbi/tsec, DLY 1000 usec, reliability 255/255, txload 1/255, rxload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP (type: ARPA, ARP Timeout 04:00:00 Last input never, output never, output hang never Last clearing of ''show interface'' counters never Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0 Queueing strategy: fifo Output queue: 0/40 (size/max) 5 minute input rate 0 bifs/sec, 0 packet/sec	ekce
669 packets output, 71888 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Ethernet0/2 is administratively down, line protocol is down Hardware is AmdP2, address is aabb.cc00.4320 (bia aabb.cc00.4320) MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, tkload 1/255, rkload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP type: ARPA, ARP Timeout 04:00:00 Last input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0 Queueing strategy: fifo Output queue: 0/40 (size/max) 5 minute output rate 0 bits/sec, 0 packets/sec	ekce
669 packets output, 71888 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Ethernet0/2 is administratively down, line protocol is down Hardware is AmdP2, address is aabb.cc00.4320 (bia aabb.cc00.4320) MTU 1500 bytes, BW 10000 Kbi/scc, DLY 1000 usec, reliability 255/255, txload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP type: ARPA, ARP Timeout 04:00:00 Last input never, output never, output hang never Last clearing of ''show interface'' counters never Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0 Queueing strategy: fifo Output queue: 0/40 (size/max) 5 minute input rate 0 bits/sec, 0 packets/sec 5 minute output rate 0 bits/sec, 0 packets/sec 0 packets input, 0 bytes, 0 no buffer	ekce
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up Ethernet0/2 unassigned Yes NVRAM administratively down down Ethernet0/3 unassigned Yes NVRAM administratively down down R3# R3# R3# R3# R3# R3#show ip route Codes : L – local, C – connected, S – static, R – RIP, M – mobile, B • BGP	up Ethernet0/2 unassigned Yes NVRAM administratively down down Ethernet0/3 unassigned Yes NVRAM administratively down down R3# R3# R3# R3#show ip route Codes : L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP D - EIGRP, EX - EIGRP external, 0 - OSPF, IA - OSPF inter area	up Ethernet0/2 unassigned Yes NVRAM administratively down down Ethernet0/3 unassigned Yes NVRAM administratively down down R3# R3# R3#show ip route Codes : L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP D - EIGRP, EX - EIGRP external, 0 - OSPF, IA - OSPF inter area N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2	up Ethernet0/2 unassigned Yes NVRAM administratively down down Ethernet0/3 unassigned Yes NVRAM administratively down down R3# R3# R3#show ip route Codes : L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP D - EIGRP, EX - EIGRP external, 0 - OSPF, IA - OSPF inter area N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2	up							
down Ethernet0/3 unassigned Yes NVRAM administratively down down R3# R3# R3# R3#show ip route Codes : L – local, C – connected, S – static, R – RIP, M – mobile, B - BGP	down Ethernet0/3 unassigned Yes NVRAM administratively down down R3# R3# R3# Codes : L – local, C – connected, S – static, R – RIP, M – mobile, B - BGP D – EIGRP, EX – EIGRP external, 0 – OSPF, IA – OSPF inter area	down Ethernet0/3 unassigned Yes NVRAM administratively down down R3# R3# R3# S3#show ip route Codes : L – local, C – connected, S – static, R – RIP, M – mobile, B • BGP D – EIGRP, EX – EIGRP external, 0 – OSPF, IA – OSPF inter area N1 – OSPF NSSA external type 1, N2 – OSPF NSSA external type 2	down Ethernet0/3 unassigned Yes NVRAM administratively down down R3# R3# R3# S3#show ip route Codes : L – local, C – connected, S – static, R – RIP, M – mobile, B • BGP D – EIGRP, EX – EIGRP external, 0 – OSPF, IA – OSPF inter area N1 – OSPF NSSA external type 1, N2 – OSPF NSSA external type 2	up							
down R3# R3# R3#show ip route Codes : L – local, C – connected, S – static, R – RIP, M – mobile, B - BGP	down R3# R3# R3# R3#show ip route Codes : L – local, C – connected, S – static, R – RIP, M – mobile, B - BGP D – EIGRP, EX – EIGRP external, 0 – OSPF, IA – OSPF inter area	down R3# R3# R3#Show ip route Codes : L – local, C – connected, S – static, R – RIP, M – mobile, B - BGP D – EIGRP, EX – EIGRP external, 0 – OSPF, IA – OSPF inter area N1 – OSPF NSSA external type 1, N2 – OSPF NSSA external type 2	down R3# R3# R3#Show ip route Codes : L – local, C – connected, S – static, R – RIP, M – mobile, B - BGP D – EIGRP, EX – EIGRP external, 0 – OSPF, IA – OSPF inter area N1 – OSPF NSSA external type 1, N2 – OSPF NSSA external type 2	down							
		N1 – OSPF NSSA external type 1, N2 – OSPF NSSA external type 2	N1 – OSPF NSSA external type 1, N2 – OSPF NSSA external type 2	R3# R3# R3#show ip Codes : L –	local, C - com					C)
E1 – OSPF external type 1, E2 – OSPF external type 2 i – IS-IS, su – IS-IS summary, L1 – IS-IS level-1, L2 – IS-IS level-2 ia – IS-IS inter area, * – candidate default, U – per-user static route o – ODR, P – periodic downloaded static route, H – NHRP, 1 – LISP + - replicated route, % - next hop override	E1 – OSPF external type 1, E2 – OSPF external type 2 i – IS-IS, su – IS-IS summary, L1 – IS-IS level-1, L2 – IS-IS level-2 ia – IS-IS inter area, * – candidate default, U – per-user static route o – ODR, P – periodic downloaded static route, H – NHRP, 1 – LISP + - replicated route, % - next hop override	i – IS-IS, su – IS-IS summary, LI – IS-IS level-1, L2 – IS-IS level-2 ia – IS-IS inter area, * – candidate default, U – per-user static route o – ODR, P – periodic downloaded static route, H – NHRP, 1 – LISP + - replicated route, % - next hop override		10.0).0.0/8 is variab	ly subn					
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E1 - OSPF external type 1, E2 - OSPF external type 2 i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2 ia - IS-IS inter area, * - candidate default, U - per-user static route o - ODR, P - periodic downloaded static route, H - NHRP, 1 - LISP + - replicated route, % - next hop override Gateway of last resort is not set 10.00.0/8 is variably subnetted, 2 subnets, 2 masks C 10.10.12.0/24 is directly connected, Ethermet 0/0 L 0.10.12.1/32 is directly connected, Ethermet 0/0 172.16.10.0/16 is variably subnetted, 2 subnets, 2 masks C 172.16.10.0/30 is directly connected, Ethermet 0/1	E1 - OSPF external type 1, E2 - OSPF external type 2 i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2 ia - IS-IS inter area, * - candidate default, U - per-user static route o - ODR, P - periodic downloaded static route, H - NHRP, 1 - LISP + - replicated route, % - next hop override Gateway of last resort is not set 10.00.0/8 is variably subnetted, 2 subnets, 2 masks C 10.10.12.0/24 is directly connected, Ethermet 0/0 L 0.10.12.1/32 is directly connected, Ethermet 0/0 172.16.10.0/16 is variably subnetted, 2 subnets, 2 masks C 172.16.10.0/30 is directly connected, Ethermet 0/1	 i - IS-IS, su - IS-IS summary, LI - IS-IS level-1, L2 - IS-IS level-2 ia - IS-IS inter area, * - candidate default, U - per-user static route o - ODR, P - periodic downloaded static route, H - NHRP, 1 - LISP + - replicated route, % - next hop override Gateway of last resort is not set 10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks C 10.10.12.0/24 is directly connected, Ethermet 0/0 L 10.10.12.1/32 is directly connected, Ethermet 0/0 172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks C 172.16.11.0/30 is directly connected, Ethermet 0/0 	10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks C 10.10.12.0/24 is directly connected, Ethernet 0/0 L 10.10.12.1/32 is directly connected, Ethernet 0/0 172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks C 172.16.11.0/30 is directly connected, Ethernet 0/1	R3# R3#	72.16.11.2/32 i	s direct	ly connected	, Ethernet 0/1			
E1 – OSPF external type 1, E2 – OSPF external type 2 i – IS-IS, su – IS-IS summary, L1 – IS-IS level-1, L2 – IS-IS level-2 ia – IS-IS inter area, * – candidate default, U – per-user static route o – ODR, P – periodic downloaded static route, H – NHRP, 1 – LISP + - replicated route, % - next hop override Gateway of last resort is not set 10.00.0/8 is variably subnetted, 2 subnets, 2 masks C 10.10.12.0/24 is directly connected, Ethernet 0/0 L 10.112.1/32 is directly connected, Ethernet 0/1 L 172.16.11.0/30 is directly connected, Ethernet 0/1 L 172.16.11.2/32 is directly connected, Ethernet 0/1 K3#	E1 – OSPF external type 1, E2 – OSPF external type 2 i – IS-IS, su – IS-IS summary, L1 – IS-IS level-1, L2 – IS-IS level-2 ia – IS-IS inter area, * – candidate default, U – per-user static route o – ODR, P – periodic downloaded static route, H – NHRP, 1 – LISP + - replicated route, % - next hop override Gateway of last resort is not set 10.00.0/8 is variably subnetted, 2 subnets, 2 masks C 10.10.12.0/24 is directly connected, Ethernet 0/0 L 10.112.1/32 is directly connected, Ethernet 0/1 L 172.16.11.0/30 is directly connected, Ethernet 0/1 L 172.16.11.2/32 is directly connected, Ethernet 0/1 K3#	 i - IS-IS, su - IS-IS summary, LI - IS-IS level-1, L2 - IS-IS level-2 ia - IS-IS inter area, * - candidate default, U - per-user static route o - ODR, P - periodic downloaded static route, H - NHRP, 1 - LISP + - replicated route, % - next hop override Gateway of last resort is not set 10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks C 10.10.12.0/24 is directly connected, Ethernet 0/0 172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks C 172.16.11.0/30 is directly connected, Ethernet 0/1 L 172.16.11.2/32 is directly connected, Ethernet 0/1 L 172.16.11.2/32 is directly connected, Ethernet 0/1 	10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks C 10.10.12.0/24 is directly connected, Ethernet 0/0 10.10.12.1/32 is directly connected, Ethernet 0/0 172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks C 172.16.11.0/30 is directly connected, Ethernet 0/1 L 172.16.11.2/32 is directly connected, Ethernet 0/1 R3#	R3#							

С	10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks 10.10.12.0/24 is directly connected, Ethernet 0/0
C L	10.10.12.1/32 is directly connected, Ethernet 0/0
	172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks
C L	172.16.11.0/30 is directly connected, Ethernet 0/1
L	172.16.11.2/32 is directly connected, Ethernet 0/1
R3#	
R3#	
R3#	
	NA



L2SW1 L2SW1#show run L2SW1#show runing-config Building configuration :: 1074 bytes ! version 15.1 service timestamps debug datetime mace service transmps log datetime mace no service password-encryption service compress-config instance L2SW1 instance L2SW1 interface Plant ip cef interface Vlan1 ip address 192.168.1.254 255.255.255.0 i default-gateway 192.168.1.1 in oi jo http server i default-gateway 192.168.1.1 in oi jo http server i default-gateway 192.168.1.1 in oi jo http server i default-gateway 192.168.1.2 interface Elfemett0/0 description ***Link to R2*** switchport access vha 100 switchport mode access duplex auto interface Effemett0/2 description ***Link to Server3 segment*** switchport access vha 100 switchport mode access duplex auto interface Effemett0/2 description ***Link to Server3 segment*** switchport access vha 100 switchport mode access duplex auto interface Effemett0/2 description ***Link to Server3 segment*** switchport access vha 100 switchport mode access interface Themett0/2 description ***Link to Server3 segment*** switchport access vha 100 switchport mode access interface Settemett0/2 description ***Link to Server3 segment*** switchport access vha 100 switchport mode access interface Settemett0/2 description ***Link to Server3 segment*** switchport access vha 100 switchport mode access interface Settemett0/2 description ***Link to Server3 segment*** switchport access vha 100 switchport mode access interface Settemett0/2 description ***Link to Server3 segment*** switchport access vha 100 switchport mode access interface Settemett0/2 description ***Link to Server3 segment*** switchport access vha 100 switchport mode access interface Settemett0/2 description ***Link to Server3 segment*** switchport access vha 100 switchport mode access interface Settemett0/2 description ***Link to Server3 segment*** switchport access vha 100 switchport mode access interface Settemett0/2 description ***Link to Server3 segment*** switchport access vha 100 switchport mode access interface Settemett0/2 descri	ekcert
interface Ethernet0/2 description ***Link to Server3 segment*** switchport access vlan 200 switchport mode access duplex auto	



L2SW1 Hardware is AmdP2, address is aabb.cc00.4500 (bia aabb.cc00.4500) Description: ***Link to R2*** MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, txload 1/255, rxload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) Auto-duplex, Auto-speed, media type is unknown input flow-control is off, output flow-control is unsupported ARP type: ARPA, ARP Timeout 04:00:00 Last input 00:00:07, output 00:00:00, output hang never Last clearing of "show interface" counters never Last clearing of "show interface" counters never Input queue: 12/2000/0/0 (size/max/drops/flushes); Total output drops: 0 Queueing strategy: fifo Output queue: 0/00 (size/max) 5 minute input rate 0 bits/sec, 0 packets/sec 5 minute input rate 0 bits/sec, 0 packets/sec 5 minute output rate 0 bits/sec, 2 packets/sec 1447 packets input, 208877 bytes, 0 no buffer Received 139 broadcasts (0 multicasts) 0 runts, 0 giants, 0 throttles 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored 0 input packets with dribble condition detected 13457 packets output, 919293 bytes, 0 underruns 0 output errors, 0 collisions, 0 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred seek cert. com 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out 0 output outrer failures, 0 output outrers swapped out Ethernet0/1 is up, line protocol is up (connected) Hardware is AmdP2, address is aabb.cc00.4510 (bia aabb.cc00.4510) Description: ***Link to Sercer1 segment*** MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 255/255, txload 1/255, rxload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) Auto-duplex, Auto-speed, media type is unknown input flow-control is off, output flow-control is unsupported ARP type: ARPA, ARP Timeout 04:00:00 Last input 00:00:07, output 00:00:01, output hang never L2SW1 Last clearing of 'show interface'' counters never Input queue: 5/2000/0/0 (size/max/drops/flushes); Total output drops: 0 Queueing strategy: fifo Output queue ()/0 (size/max) 5 minute input rate 0 bits/sec, 0 packets/sec 5 minute output rate 0 bits/sec, 0 packets/sec 755 packets input, 80219 bytes, 0 no buffer Received 123 broadcasts (0 multicasts) 0 runts, 0 giants, 0 throttles 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored

0 input packets with dribble condition detected 3867 packets output, 268544 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out

0 output butter failures, 0 output butters swapped out Ethernet0/2 is up, line protocol is up (connected) Hardware is AmdP2, address is aabb.cc00.4520 (bia aabb.cc00.4520) Description: ***Link to Sercer2 segment*** MTU 1500 bytes, BW 10000 Kbid/sec, DLX 1000 usec, reliability 255/255, txload 1/255, txload 1/255 Encapsulation ARPA, loopback not set Keenality set (10 sec)

Encapsulation ARPA, loopback not set Keepalive set (10 sec) Auto-duplex, Auto-speed, media type is unknown input flow-control is off, output flow-control is unsupported ARP type: ARPA, ARP Timeout 04:00:00 Last input 00:00:7, output 00:00:01, output hang never Last clearing of ''show interface'' counters never Input queue: 5/2000///0 (size/max/drops/flushes); Total output drops: 0 Ownering strategy. ffc Queueing strategy: fifo Output queue: 0/0 (size/max) 5 minute input rate 0 bits/sec, 0 packets/sec 5 minute output rate 0 bits/sec, 0 packets/sec 758 packets input, 81010 bytes, 0 no buffer Received 125 broadcasts (0 multicasts) 0 runts, 0 giants, 0 throttles 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored



L2SW1 0 input packets with dribble condition detected 3867 packets output, 268544 bytes, 0 underruns 0 output errors, 0 collisions, 0 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Ethernet03 is up, line perotocol is up (connected) Hardware is AmdP2, address is aabb.cc00.4530 (bia aabb.cc00.4530) MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec, reliability 25/255, txload 1/255, rxload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) Auto-duplex, Auto-speed, media type is unknown input flow-control is off, output flow-control is unsupported ARP type: ARPA, ARP Timeout 04:00:00 ARP type: ARPA, ARP Timeout 04:00:00 Last input never, output never, output hang never Last clearing of ''show interface'' counters never Input queue: 0/2000/0/0 (size/max/drops/flushes); Total output drops: 0 Queueing strategy: fifo Output queue: 0/0 (size/max) 5 minute input rate 0 bits/sec, 0 packets/sec 5 minute output rate 0 bits/sec, 0 packets/sec 0 packets input, 0 bytes, 0 no buffer Received 0 broadcasts (0 multicasts) 0 mults. 00 eiants. 0 throftes eek cert. com 0 runts, 0 giants, 0 throttles 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored 0 input packets with dribble condition detected 3566 packets output, 252186 bytes, 0 underruns 0 output errors, 0 collisions, 55 interface resets 0 unknown protocol drops 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out Vlan1 is up, line protocol is up Hardware is Ethernet SVI, address is aabb.cc80.4500 (bia aabb.cc80.4500) Internet address is 192.168.1.254/24 L2SW1

) bytes, BW 10000 255/255, txload 1			0 usec,	
reliability 255/255, txload 1/255, rxload 1/255 Encapsulation ARPA, loopback not set					
Keepalive not supported					
ARP type: ARPA, ARP Timeout 04:00:00					
	00:00:12, output n			ver	
	ng of 'show inter				
Input queu	e: 0/75/0/0 (size/m	nax/drop	s/flushes); T	otal outpu	t drops: 0
Queueing :	strategy: fifo				
Output qu	eue: 0/40 (size/max	()			
5 minute in	put rate 0 bits/sec	, 0 pack	ets/sec		
5 minute o	utput rate 0 bits/se	c, 0 pac	kets/sec	(
235 pacl	cets input, 42480 b	ytes, 0 1	10 buffer		
Received 235 broadcasts (0 IP multicasts)					
0 runts,	0 giants, 0 throttle:	5			
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored					
11 packe	ets output, 830 by	tes, 0 un	derruns	11/1	\diamond
	errors, 0 interface				
0 unknow	wn protocol drops	3	~ \ \	11	
	buffer failures, 0	output b	uffers swapp	ped out	
L2SW1#		~	113		
L2SW1#			11		
	ow ip interface bri		~		
Interface	IP-Address	OK?	Method	Status	Protocol
Ethernet0/0	unassigned	Yes	unset	up	up
Ethernet0/1	unassigned	Yes	unset	up	up
Ethernet0/2	unassigned	Yes	unset	up	up
Ethernet0/3	unassigned	Yes	unset	up	up
Vlan1	192.168.1.254	Yes	NVRAM	up	up
L2SW1#					
L2SW1#	2				
L2SW1#sho					
	local, C - connec				
D – EIGRP, EX – EIGRP external, 0 – OSPF, IA – OSPF inter area					
N1 – OSPF NSSA external type 1, N2 – OSPF NSSA external type 2					
E1 – OSPF external type 1, E2 – OSPF external type 2 i – IS-IS, su – IS-IS summary, LI – IS-IS level-1, L2 – IS-IS level-2					
ia - IS-IS inter area, * - candidate default, U - per-user static route					



v = ODR, P - periodic downloaded static route, H = NHRP, 1 - LISP + - replicated route, % - next hop override Gateway of last resort is not set 192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks C 192.168.1.0/24 is directly connected, Vlan1 L 192.168.1.254/32 is directly connected, Vlan1 L2SW1# L2SW1#

What is the correct statement below after examining the R1 routing table?

A. Traffic that is destined to 10.10.10.0/24 from R1 LAN network uses static route instead RIPv2 because the static route AD that is configured is less than the AD of RIPv2

B. Traffic that is destined to 10.10.10.0/24 from R1 LAN network uses RIPv2 instead static route because the static route AD that is configured is higher than the AD of RIPv2

C. Traffic that is destined to 10.10.10.0/24 from R1 LAN network uses static route instead RIPv2 But the traffic is forwarded to the ISP instead of the internal network.

D. Traffic that is destined to 10.10.10.0/24 from R1 LAN network uses RIPv2 instead static route because the static route AD that is configured is 255

Correct Answer: B

Surely we have to use the "show ip route" command to check the R1 routing table.



<pre>Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2 E1 - OSPF external type 1, E2 - OSPF external type 2 i - IS-IS, su - IS-IS summary, L1 - IS-IS level 1, L2 - IS-IS level-2 ia - IS-IS inter area, * - candidate default, U - per-user static route o - ODR, P - periodic downlcaded static route, H - NHRP, 1 - LISP a - application route + - replicated route, % - next hob override Gateway of last resort is not set 10.0.0.0/24 is subretted, 11 subnets R 10.10.10.0 [120(1] via 172.16.14.2, 00:00:06, Ethernet0/2 172.16.0.0/16 is, veriably subnetted, 5 subnets, 3 masks R 172.16.11.0/30 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 C 172.16.14.0/30 is directly connected, Ethernet1/2 L 172.16.14.0/30 is directly connected, Ethernet1/2 R 192.168.100.0/24 is directly connected, Ethernet0/1 R 192.168.100.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 R 192.168.100.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 R 192.168.100.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 R 192.168.200.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 R 192.168.201.0/27 is directly connected, Ethernet0/1 L 0.10.0.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 R 192.165.201.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 D . 165.201.0/27 is directly connected, Ethernet0/1 L 0.209.165.201.0/27 is directly connected, Ethernet0/0 L 0.09.165.201.1/32 is directly connected, Ethernet0/0</pre>	R1#s	how ip route
<pre>N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2 E1 - OSPF external type 1, E2 - OSPF external type 2 i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2 ia - IS-IS inter area, * - candidate default, U - per-user static route o - ODR, P - periodic downlcaded static route, H - NHRP, 1 - LISP a - application route + - replicated route, % - next hop override Gateway of last resort is not set 10.0.0.0/24 is subretted, 1 subnets R 10.10.10.0 [120/1] yia 172.16.14.2, 00:00:06, Ethernet0/2 172.16.0.0/16 is variably subnetted, 5 subnets, 3 masks R 172.16.11.0/30 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 C 172.16.14.0/30 is directly connected, Ethernet0/2 L 172.16.14.0/32 is directly connected, Ethernet0/1 L 172.16.16.1/32 is directly connected, Ethernet0/1 R 192.168.100.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 R 192.168.200.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 R 192.165.201.0/24 is variably subnetted, 2 subnets, 2 masks C 209.165.201.0/27 is directly connected, Ethernet0/0</pre>		s: L - local, C - cornected, S - static, R - RIP, M - mobile, B -
<pre>E1 - OSPF external type 1, E2 - OSPF external type 2 i - IS-IS, su - IS-IS summary, L1 - IS-IS level 1, L2 - IS-IS level-2 ia - IS-IS inter area, * - candidate default. U - per-user static route o - ODR, P - periodic downlcaded static route, H - NHRP, 1 - LISP a - application route + - replicated route, % - next hob override Gateway of last resort is not set 10.0.0.0/24 is subretted, 1 subnets R 10.10.10.0 [120/1] via 172.16.14.2, 00:00:06, Ethernet0/2 172.16.0.0/16 is variably subnetted, 5 subnets, 3 masks R 172.16.11.0/30 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 C 172.16.14.0/30 is directly connected, Ethernet2/2 L 172.16.14.0/30 is directly connected, Ethernet2/2 L 172.16.16.1/32 is directly connected, Ethernet2/1 R 192.168.100.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 R 192.168.100.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 R 192.168.100.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 R 192.168.200.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 R 192.165.201.0/27 is directly connected, Ethernet0/0</pre>		D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
<pre>i - IS-IS, su - IS-IS summary, L1 - IS-IS level1, L2 - IS-IS level-2 ia - IS-IS inter area, * - candidate default. U - per-user static route o - ODR, P - periodic downlcaded static route, H - NHRP, 1 - LISP a - application route + - replicated route, % - next hop override Gateway of last resort is not set 10.0.0.0/24 is subretted, 1 subnets R 10.10.10.0 [120(1] via 172.16.14.2, 00:00:06, Sthernet0/2 172.16.0.0/16 is variably subnetted, 5 subnets, 3 masks R 172.16.11.0/30 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 C 172.16.14.0/30 is directly connected, Ethernet2/2 L 172.16.14.1/32 is directly connected, Ethernet2/1 L 172.16.16.1/32 is directly connected, Ethernet2/1 L 172.16.16.1/32 is directly connected, Ethernet2/1 R 192.168.100.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 209.165.201.0/24 is variably subnetted, 2 subnets, 2 masks C 209.165.201.0/27 is directly connected, Ethernet0/0</pre>		N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
<pre>level-2 ia - IS-IS inter area, * - candidate default, U - per-user static route o - ODR, P - periodic downlcaded static route, H - NHRP, 1 - LISP a - application route + - replicated route, % - next hop override Gateway of last resort is not set 10.0.0.0/24 is subretted, 1 subnets R 10.10.10.0 [120(1] via 172.16.14.2, 00:00:06, Ethernet0/2 172.16.0.0/16 is variably subnetted, 5 subnets, 3 masks R 172.16.11.0/30 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 C 172.16.14.0/30 is directly connected, Ethernet0/2 L 172.16.14.0/24 is directly connected, Ethernet0/1 L 172.16.16.1/32 is directly connected, Ethernet0/1 R 192.168.100.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 R 192.168.200.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 R 192.168.200.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 R 192.168.201.0/24 is variably subnetted, 2 subnets, 2 masks C 209.165.201.0/27 is directly connected, Ethernet0/0</pre>		
<pre>ia - IS-IS inter area, * - candidate default, U - per-user static route</pre>		
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<pre>+ - replicated route, % - next hop override Gateway of last resort is not set 10.0.0.0/24 is subnetted, 1 subnets R 10.10.10.0 [120(1] via 172.16.14.2, 00:00:06, Ethernet0/2 172.16.0.0/16 is variably subnetted, 5 subnets, 3 masks R 172.16.11.0/30 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 C 172.16.14.0/30 is directly connected, Ethernet0/2 L 172.16.14.1/32 is directly connected, Ethernet0/1 L 172.16.16.1/32 is directly connected, Ethernet0/1 L 172.16.16.1/32 is directly connected, Ethernet0/1 R 192.168.100.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 R 192.168.200.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 209.165.201.0/24 is variably subnetted, 2 subnets, 2 masks C 209.165.201.0/27 is directly connected, Ethernet0/0</pre>	LISP	
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<pre>C 172.16.14.0/30 is directly connected, EthernetD/2 L 172.16.14.1/32 is directly connected, EthernetD/2 C 172.16.16.0/24 is directly connected, EthernetD/1 L 172.16.16.1/32 is directly connected, EthernetD/1 R 192.168.100.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 R 192.168.200.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 209.165.201.0/24 is variably subnetted, 2 subnets, 2 masks C 209.165.201.0/27 is directly connected, Ethernet0/0</pre>		
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<pre>R 192.168.100.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 R 192.168.200.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 209.165.201.0/24 is variably subnetted, 2 subnets, 2 masks C 209.165.201.0/27 is directly connected, Ethernet0/0</pre>		
<pre>R 192.168.200.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2 209.165.201.0/24 is variably subnetted, 2 subnets, 2 masks C 209.165.201.0/27 is directly connected, Ethernet0/0</pre>		
209.165.201.0/24 is variably subnetted, 2 subnets, 2 masks C 209.165.201.0/27 is directly connected, Ethernet0/0	R	
C 209.165.201.0/27 is directly connected, Ethernet0/0	R	
L 209.165.201.1/32 is directly connected, Ethernet0/0	C	209.165.201.0/27 is directly connected, Ethernet0/0
	L	209.165.201.1/32 is directly connected, Ethernet0/0

As we see here, 10.10.10/24 is learned from RIP. Notice that although there is a static route on R1 to this destination (you can check with the "show running-config" on R1 to see the line "ip route 10.10.10.0 255. 255.255.0 172.16.14.2 200"), this static route is not installed to the routing table because it is not the best path because the Administrative Distance (AD) of this static route is 200 while the AD of RIP is 120 -> R1 chose the path with lowest AD so it chose path advertised via RIP.

QUESTION 2

DRAG DROP

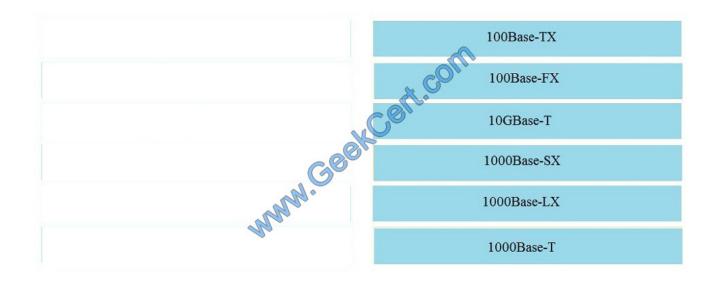
Drag and drop the Ethernet types from the left onto the correct service descriptions on the right.

Select and Place:



100Base-FX	provides 100 Mbps over copper segments up to 100 100 meters long
100Base-TX	provides 100 Mbps over fiber segments up to 412 meters long
1000Base-LX	provides 10 Gbps over copper segments up to 100 meters long
1000Base-SX	provides 1 Gbps over fiber segments up to 550 meters long
1000Base-T	provides 1 Gbps over fiber segments up to 10 kilometers long
10GBase-T	provides 1 Gbps over copper segments up to 100 meters long

Correct Answer:



QUESTION 3

Which protocol verifies connectivity between two switches that are configured with IP addresses in the same network?

A. ICMP

- B. STP
- C. VTP
- D. HSRP

Correct Answer: A



QUESTION 4

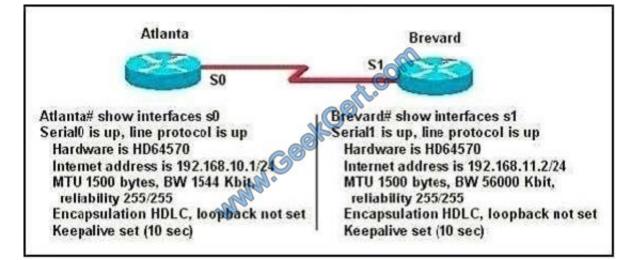
When you configure router# ipnat pool 10.10.10.1 10.10.10.20 255.255.255.0

- A. nat pool
- B. dynamic nat
- C. nat translation
- D. dhcp pool

Correct Answer: B

QUESTION 5

Two routers named Atlanta and Brevard are connected by their serial interfaces as shown in the exhibit, but there is no data connectivity between them. The Atlanta router is known to have a correct configuration.



Given the partial configurations shown in the exhibit, what is the problem on the Brevard router that is causing the lack of connectivity?

- A. A loopback is not set.
- B. The IP address is incorrect.
- C. The subnet mask is incorrect.
- D. The serial line encapsulations are incompatible.
- E. The maximum transmission unit (MTU) size is too large.
- F. The bandwidth setting is incompatible with the connected interface.

Correct Answer: B



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