**Virtual Network Writeup and Running Configuration Files**

A computer network diagram with many blue objects

AI-generated content may be incorrect.

**5 main networks:**

1.192.168.10.0/24 – IT VLAN

2.192.168.20.0/24 – Guest VLAN

3.192.168.30.0/24 – Marketing VLAN

4.192.168.40.0/24 – HR VLAN

5. 10.10.1.0/30 – between NY and LA routers

**Services configured**:

-Routing: RIP and default routes

-Dynamic IP addresses with DHCP

-IPSec site to site VLAN

-Firewall ACLs

-VLANs, trunking and Router-on-a-Stick

-EtherChannel with LACP

-Rapid spanning tree

-Syslog

-NTP

**Legend**

**Guest** – Guest switch. SVI IP address: 192.168.99.10

**IT\_dept** – IT department switch. SVI IP address: 192.168.99.11

**Marketing\_dept** – Marketing department switch. SVI IP address0: 192.168.199.12

**HR\_dept** – HR department switch. SVI IP address: 192.168.199.10

**RouterLA** -Router for LA office

**RouterNY** – Router for NY office

**NTP\_Syslog\_Web\_Server**- Server running NTP, Syslog and employee resources website for LA office. In IT VLAN (10). IP address 192.168.10.100

**FTP\_NTP\_Syslog\_Server** – Server running FTP, NTP, Syslog services for NY office. In HR VLAN (40). IP address 192.168.40.100

**PC0** – attached to IT switch, in management VLAN (99). LA office.

**PC1**-attached to IT switch, in IT VLAN (10). LA office.

**PC2**- attached to HR switch, in HR VLAN (40). NY office.

**PC3**-attached to HR switch, in MGMT VLAN (199). NY office.

**PC6**-attached to marketing switch, in marketing VLAN (30). NY office.

**PC7**-attached to marketing switch, in marketing VLAN (30). NY office.

**PC8**-attached to marketing switch, in marketing VLAN (30). NY office.

**PC9**-attached to guest switch, in guest VLAN (20). NY office.

**PC10**-attached to guest switch, in guest VLAN (20). LA office.

**PC11**-attached to guest switch, in management VLAN (99). LA office

**Internet Server1** – attached to IT switch. IP address: 10.10.100.2. LA office.

**Internet Server2** – attached to guest switch. IP address: 10.10.100.3. LA office.

**Internet Server3** – attached to LA router. IP address: 10.10.50.2.

**IT Switch Running Configuration**

Building configuration...

Current configuration : 3041 bytes

!

version 12.1

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

!

hostname Switch

!

!

!

!

!

!

spanning-tree mode rapid-pvst

spanning-tree extend system-id

!

interface Port-channel1

switchport trunk allowed vlan 10,20,99-100

switchport mode trunk

!

interface FastEthernet0/1

switchport mode trunk

duplex full

speed 100

!

interface FastEthernet0/2

switchport trunk allowed vlan 10,20,99-100

switchport mode trunk

channel-group 1 mode active

!

interface FastEthernet0/3

switchport trunk allowed vlan 10,20,99-100

switchport mode trunk

channel-group 1 mode active

!

interface FastEthernet0/4

switchport access vlan 10

switchport mode access

switchport port-security

switchport port-security maximum 2

switchport port-security violation restrict

duplex full

speed 100

spanning-tree portfast

!

interface FastEthernet0/5

switchport access vlan 99

switchport mode access

switchport port-security

switchport port-security maximum 2

switchport port-security violation restrict

duplex full

speed 100

spanning-tree portfast

!

interface FastEthernet0/6

switchport access vlan 10

switchport mode access

switchport port-security

switchport port-security maximum 2

switchport port-security violation restrict

duplex full

speed 100

spanning-tree portfast

!

interface FastEthernet0/7

switchport access vlan 100

switchport mode access

duplex full

speed 100

spanning-tree portfast

!

interface FastEthernet0/8

switchport mode dynamic auto

!

interface FastEthernet0/9

switchport mode dynamic auto

!

interface FastEthernet0/10

switchport mode dynamic auto

!

interface FastEthernet0/11

switchport mode dynamic auto

!

interface FastEthernet0/12

switchport mode dynamic auto

!

interface FastEthernet0/13

switchport mode dynamic auto

!

interface FastEthernet0/14

switchport mode dynamic auto

!

interface FastEthernet0/15

switchport mode dynamic auto

!

interface FastEthernet0/16

switchport mode dynamic auto

!

interface FastEthernet0/17

switchport mode dynamic auto

!

interface FastEthernet0/18

switchport mode dynamic auto

!

interface FastEthernet0/19

switchport mode dynamic auto

!

interface FastEthernet0/20

switchport mode dynamic auto

!

interface FastEthernet0/21

switchport mode dynamic auto

!

interface FastEthernet0/22

switchport mode dynamic auto

!

interface FastEthernet0/23

switchport mode dynamic auto

!

interface FastEthernet0/24

switchport mode dynamic auto

!

interface Vlan1

no ip address

shutdown

!

interface Vlan99

ip address 192.168.99.11 255.255.255.0

!

ip default-gateway 192.168.99.1

!

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logging trap debugging

logging 192.168.10.100

!

!

!

line con 0

!

line vty 0 4

password 1234

login

transport input telnet

line vty 5 15

login

!

!

!

ntp server 192.168.10.100

!

end

**Guest Switch Running Configuration**

show run

Building configuration...

Current configuration : 2575 bytes

!

version 12.1

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

!

hostname Switch

!

!

!

!

!

!

spanning-tree mode rapid-pvst

spanning-tree extend system-id

!

interface Port-channel1

switchport trunk allowed vlan 10,20,99-100

switchport mode trunk

!

interface FastEthernet0/1

switchport access vlan 20

switchport mode access

duplex full

speed 100

!

interface FastEthernet0/2

switchport trunk allowed vlan 10,20,99-100

switchport mode trunk

channel-group 1 mode active

!

interface FastEthernet0/3

switchport trunk allowed vlan 10,20,99-100

switchport mode trunk

channel-group 1 mode active

!

interface FastEthernet0/4

switchport mode trunk

duplex full

speed 100

!

interface FastEthernet0/5

switchport access vlan 99

switchport mode access

duplex full

speed 100

!

interface FastEthernet0/6

switchport access vlan 100

switchport mode access

duplex full

speed 100

!

interface FastEthernet0/7

switchport mode dynamic auto

!

interface FastEthernet0/8

switchport mode dynamic auto

!

interface FastEthernet0/9

switchport mode dynamic auto

!

interface FastEthernet0/10

switchport mode dynamic auto

!

interface FastEthernet0/11

switchport mode dynamic auto

!

interface FastEthernet0/12

switchport mode dynamic auto

!

interface FastEthernet0/13

switchport mode dynamic auto

!

interface FastEthernet0/14

switchport mode dynamic auto

!

interface FastEthernet0/15

switchport mode dynamic auto

!

interface FastEthernet0/16

switchport mode dynamic auto

!

interface FastEthernet0/17

switchport mode dynamic auto

!

interface FastEthernet0/18

switchport mode dynamic auto

!

interface FastEthernet0/19

switchport mode dynamic auto

!

interface FastEthernet0/20

switchport mode dynamic auto

!

interface FastEthernet0/21

switchport mode dynamic auto

!

interface FastEthernet0/22

switchport mode dynamic auto

!

interface FastEthernet0/23

switchport mode dynamic auto

!

interface FastEthernet0/24

switchport mode dynamic auto

!

interface Vlan1

no ip address

shutdown

!

interface Vlan99

ip address 192.168.99.10 255.255.255.0

!

ip default-gateway 192.168.99.1

!

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logging trap debugging

logging 192.168.10.100

!

!

!

line con 0

!

line vty 0 4

password 1234

login

transport input telnet

line vty 5 15

login

!

!

!

ntp server 192.168.10.100

!

End

**Marketing Switch Running Configuration**

show run

Building configuration...

Current configuration : 2920 bytes

!

version 12.1

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

!

hostname Switch

!

!

!

!

!

!

spanning-tree mode rapid-pvst

spanning-tree extend system-id

!

interface Port-channel1

switchport mode trunk

!

interface FastEthernet0/1

switchport mode trunk

duplex full

speed 100

!

interface FastEthernet0/2

switchport access vlan 30

switchport mode access

switchport port-security

switchport port-security maximum 2

switchport port-security violation restrict

duplex full

speed 100

!

interface FastEthernet0/3

switchport access vlan 30

switchport mode access

switchport port-security

switchport port-security maximum 2

switchport port-security violation restrict

duplex full

speed 100

!

interface FastEthernet0/4

switchport access vlan 30

switchport mode access

switchport port-security

switchport port-security maximum 2

switchport port-security violation restrict

duplex full

speed 100

!

interface FastEthernet0/5

switchport trunk allowed vlan 30,40,199

switchport mode trunk

duplex full

speed 100

channel-group 1 mode active

!

interface FastEthernet0/6

switchport trunk allowed vlan 30,40,199

switchport mode trunk

duplex full

speed 100

channel-group 1 mode active

!

interface FastEthernet0/7

switchport access vlan 40

switchport mode access

duplex full

speed 100

!

interface FastEthernet0/8

switchport mode dynamic auto

!

interface FastEthernet0/9

switchport mode dynamic auto

!

interface FastEthernet0/10

switchport mode dynamic auto

!

interface FastEthernet0/11

switchport mode dynamic auto

!

interface FastEthernet0/12

switchport mode dynamic auto

!

interface FastEthernet0/13

switchport mode dynamic auto

!

interface FastEthernet0/14

switchport mode dynamic auto

!

interface FastEthernet0/15

switchport mode dynamic auto

!

interface FastEthernet0/16

switchport mode dynamic auto

!

interface FastEthernet0/17

switchport mode dynamic auto

!

interface FastEthernet0/18

switchport mode dynamic auto

!

interface FastEthernet0/19

switchport mode dynamic auto

!

interface FastEthernet0/20

switchport mode dynamic auto

!

interface FastEthernet0/21

switchport mode dynamic auto

!

interface FastEthernet0/22

switchport mode dynamic auto

!

interface FastEthernet0/23

switchport mode dynamic auto

!

interface FastEthernet0/24

switchport mode dynamic auto

!

interface Vlan1

no ip address

shutdown

!

interface Vlan199

ip address 192.168.199.12 255.255.255.0

!

ip default-gateway 192.168.199.1

!

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logging trap debugging

logging 192.168.40.100

!

!

!

line con 0

!

line vty 0 4

password 1234

login

line vty 5 15

login

!

!

!

ntp server 192.168.40.100

!

End

**HR Switch Running Configuration**

show run

Building configuration...

Current configuration : 2933 bytes

!

version 12.1

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

!

hostname Switch

!

!

!

!

!

!

spanning-tree mode rapid-pvst

spanning-tree extend system-id

!

interface Port-channel1

switchport trunk allowed vlan 30,40,199

switchport mode trunk

!

interface FastEthernet0/1

switchport trunk allowed vlan 30,40,199

switchport mode trunk

!

interface FastEthernet0/2

switchport trunk allowed vlan 30,40,199

switchport mode trunk

switchport port-security

switchport port-security maximum 2

switchport port-security violation restrict

duplex full

speed 100

channel-group 1 mode active

!

interface FastEthernet0/3

switchport trunk allowed vlan 30,40,199

switchport mode trunk

switchport port-security

switchport port-security maximum 2

switchport port-security violation restrict

duplex full

speed 100

channel-group 1 mode active

!

interface FastEthernet0/4

switchport access vlan 40

switchport mode access

switchport port-security

switchport port-security maximum 2

switchport port-security violation restrict

duplex full

speed 100

!

interface FastEthernet0/5

switchport access vlan 199

switchport mode access

duplex full

speed 100

!

interface FastEthernet0/6

switchport access vlan 40

switchport mode access

duplex full

speed 100

!

interface FastEthernet0/7

switchport mode dynamic auto

!

interface FastEthernet0/8

switchport mode dynamic auto

!

interface FastEthernet0/9

switchport mode dynamic auto

!

interface FastEthernet0/10

switchport mode dynamic auto

!

interface FastEthernet0/11

switchport mode dynamic auto

!

interface FastEthernet0/12

switchport mode dynamic auto

!

interface FastEthernet0/13

switchport mode dynamic auto

!

interface FastEthernet0/14

switchport mode dynamic auto

!

interface FastEthernet0/15

switchport mode dynamic auto

!

interface FastEthernet0/16

switchport mode dynamic auto

!

interface FastEthernet0/17

switchport mode dynamic auto

!

interface FastEthernet0/18

switchport mode dynamic auto

!

interface FastEthernet0/19

switchport mode dynamic auto

!

interface FastEthernet0/20

switchport mode dynamic auto

!

interface FastEthernet0/21

switchport mode dynamic auto

!

interface FastEthernet0/22

switchport mode dynamic auto

!

interface FastEthernet0/23

switchport mode dynamic auto

!

interface FastEthernet0/24

switchport mode dynamic auto

!

interface Vlan1

no ip address

shutdown

!

interface Vlan199

ip address 192.168.199.10 255.255.255.0

!

ip default-gateway 192.168.199.1

!

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logging trap debugging

logging 192.168.40.100

!

!

!

line con 0

!

line vty 0 4

password 1234

login

line vty 5 15

login

!

!

!

ntp server 192.168.40.100

!

end

**LA Router Running Configuration**

show run

Building configuration...

Current configuration : 3955 bytes

!

version 15.1

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

!

hostname Router

!

!

!

!

ip dhcp excluded-address 192.168.20.1

ip dhcp excluded-address 192.168.10.1

ip dhcp excluded-address 192.168.99.1

!

ip dhcp pool IT

network 192.168.10.0 255.255.255.0

default-router 192.168.10.1

ip dhcp pool guest

network 192.168.20.0 255.255.255.0

default-router 192.168.20.1

ip dhcp pool MGMT

network 192.168.99.0 255.255.255.0

default-router 192.168.99.1

clock timezone PST -8

!

!

!

!

ip cef

no ipv6 cef

!

!

!

!

license udi pid CISCO2911/K9 sn FTX15240HE3-

license boot module c2900 technology-package securityk9

!

!

!

crypto isakmp policy 10

encr aes

authentication pre-share

group 2

!

crypto isakmp key key1 address 10.10.1.2

!

!

!

crypto ipsec transform-set transform1 esp-aes esp-sha-hmac

!

crypto map map1 10 ipsec-isakmp

set peer 10.10.1.2

set transform-set transform1

match address 101

!

!

!

!

!

!

spanning-tree mode pvst

!

!

!

!

!

!

interface GigabitEthernet0/0

no ip address

duplex full

speed 100

!

interface GigabitEthernet0/0.10

encapsulation dot1Q 10

ip address 192.168.10.1 255.255.255.0

!

interface GigabitEthernet0/0.99

encapsulation dot1Q 99

ip address 192.168.99.1 255.255.255.0

ip access-group 140 in

!

interface GigabitEthernet0/0.100

encapsulation dot1Q 100

ip address 10.10.100.1 255.255.255.0

!

interface GigabitEthernet0/1

no ip address

duplex full

speed 100

!

interface GigabitEthernet0/1.20

encapsulation dot1Q 20

ip address 192.168.20.1 255.255.255.0

ip access-group 130 in

!

interface GigabitEthernet0/2

ip address 10.10.1.1 255.255.255.252

duplex full

speed 100

crypto map map1

!

interface FastEthernet0/3/0

switchport access vlan 50

switchport mode access

duplex full

speed 100

!

interface FastEthernet0/3/1

switchport mode access

!

interface FastEthernet0/3/2

switchport mode access

!

interface FastEthernet0/3/3

switchport mode access

!

interface Vlan1

no ip address

shutdown

!

interface Vlan5

mac-address 0090.2b59.8801

no ip address

!

interface Vlan50

mac-address 0090.2b59.8802

ip address 10.10.50.1 255.255.255.0

!

router rip

version 2

network 10.0.0.0

network 192.168.10.0

network 192.168.20.0

distance 150

no auto-summary

!

ip classless

ip route 0.0.0.0 0.0.0.0 10.10.1.2

!

ip flow-export version 9

!

!

access-list 130 permit udp any any eq bootpc

access-list 130 permit udp any any eq bootps

access-list 130 deny ip 192.168.20.0 0.0.0.255 192.168.10.0 0.0.0.255

access-list 130 deny ip 192.168.20.0 0.0.0.255 192.168.30.0 0.0.0.255

access-list 130 deny ip 192.168.20.0 0.0.0.255 192.168.40.0 0.0.0.255

access-list 130 deny ip 192.168.20.0 0.0.0.255 192.168.99.0 0.0.0.255

access-list 130 deny ip 192.168.20.0 0.0.0.255 192.168.199.0 0.0.0.255

access-list 130 permit ip 192.168.20.0 0.0.0.255 any

access-list 140 permit udp any any eq bootpc

access-list 140 permit udp any any eq bootps

access-list 140 deny ip any host 192.168.99.2

access-list 140 deny ip any host 192.168.99.3

access-list 140 deny ip any host 192.168.99.4

access-list 140 deny ip any host 192.168.99.5

access-list 140 permit ip any any

access-list 101 permit ip 192.168.10.0 0.0.0.255 192.168.30.0 0.0.0.255

access-list 101 permit ip 192.168.10.0 0.0.0.255 192.168.40.0 0.0.0.255

access-list 101 permit ip 192.168.10.0 0.0.0.255 192.168.199.0 0.0.0.255

access-list 101 permit ip 192.168.99.0 0.0.0.255 192.168.30.0 0.0.0.255

access-list 101 permit ip 192.168.99.0 0.0.0.255 192.168.40.0 0.0.0.255

!

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!

!

!

!

logging trap debugging

logging 192.168.10.100

line con 0

!

line aux 0

!

line vty 0 4

password 1234

login

transport input telnet

!

!

ntp server 192.168.10.100

ntp master 2

!

End

**NY Router Running Configuration**

#show run

Building configuration...

Current configuration : 3102 bytes

!

version 15.1

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

!

hostname Router

!

!

!

!

ip dhcp excluded-address 192.168.40.1

ip dhcp excluded-address 192.168.30.1

ip dhcp excluded-address 192.168.40.100

ip dhcp excluded-address 192.168.199.1

!

ip dhcp pool market

network 192.168.30.0 255.255.255.0

default-router 192.168.30.1

ip dhcp pool HR

network 192.168.40.0 255.255.255.0

default-router 192.168.40.1

ip dhcp pool MGMT

network 192.168.199.0 255.255.255.0

default-router 192.168.199.1

!

!

!

ip cef

no ipv6 cef

!

!

!

!

license udi pid CISCO2911/K9 sn FTX15241WQX-

license boot module c2900 technology-package securityk9

!

!

!

crypto isakmp policy 10

encr aes

authentication pre-share

group 2

!

crypto isakmp key key1 address 10.10.1.1

!

!

!

crypto ipsec transform-set transform1 esp-aes esp-sha-hmac

!

crypto map map1 10 ipsec-isakmp

set peer 10.10.1.1

set transform-set transform1

match address 101

!

!

!

!

!

!

spanning-tree mode pvst

!

!

!

!

!

!

interface GigabitEthernet0/0

ip address 10.10.1.2 255.255.255.252

duplex full

speed 100

crypto map map1

!

interface GigabitEthernet0/1

no ip address

duplex full

speed 100

!

interface GigabitEthernet0/1.30

encapsulation dot1Q 30

ip address 192.168.30.1 255.255.255.0

!

interface GigabitEthernet0/2

no ip address

duplex auto

speed auto

!

interface GigabitEthernet0/2.40

encapsulation dot1Q 40

ip address 192.168.40.1 255.255.255.0

!

interface GigabitEthernet0/2.199

encapsulation dot1Q 199

ip address 192.168.199.1 255.255.255.0

ip access-group 140 in

!

interface Vlan1

no ip address

shutdown

!

router rip

version 2

network 10.0.0.0

network 192.168.30.0

network 192.168.40.0

distance 150

no auto-summary

!

ip classless

ip route 0.0.0.0 0.0.0.0 10.10.1.1

!

ip flow-export version 9

!

!

access-list 101 permit ip 192.168.30.0 0.0.0.255 192.168.10.0 0.0.0.255

access-list 101 permit ip 192.168.40.0 0.0.0.255 192.168.10.0 0.0.0.255

access-list 101 permit ip 192.168.199.0 0.0.0.255 192.168.10.0 0.0.0.255

access-list 101 permit ip 192.168.30.0 0.0.0.255 192.168.99.0 0.0.0.255

access-list 101 permit ip 192.168.40.0 0.0.0.255 192.168.99.0 0.0.0.255

access-list 140 permit udp any host 192.168.199.2 eq bootps

access-list 140 permit udp any host 192.168.199.2 eq 6

access-list 140 permit udp any host 192.168.199.2 eq bootpc

access-list 140 deny ip any host 192.168.199.2

access-list 140 permit ip 192.168.30.0 0.0.0.255 192.168.10.0 0.0.0.255

access-list 140 permit ip 192.168.30.0 0.0.0.255 192.168.40.0 0.0.0.255

access-list 140 permit ip 192.168.30.0 0.0.0.255 192.168.99.0 0.0.0.255

access-list 140 permit ip any any

!

banner login ^CThis device is the property of Ritas Realty. Any unauthorized use is strictly prohibited. Keep your passwords confidential and never write them down. Never install unsafe or unauthorized software. This system is subject to monitoring.^C

!

!

!

!

logging trap debugging

logging 192.168.40.100

line con 0

!

line aux 0

!

line vty 0 4

password 1234

login

transport input telnet

!

!

ntp server 192.168.40.100

!

End

**IP Configuration for PC9 in guest VLAN (20)**

A screenshot of a computer

AI-generated content may be incorrect.

**IP Configuration for PC10 in guest VLAN (20)**

A screenshot of a computer

AI-generated content may be incorrect.

**IP Configuration for PC11 in mgmt VLAN (99)**

A screenshot of a computer

AI-generated content may be incorrect.

**IP Configuration for PC0 in mgmt VLAN (99)**A screenshot of a computer

AI-generated content may be incorrect.

**IP Configuration for PC1 in IT VLAN (10)**

A screenshot of a computer

AI-generated content may be incorrect.

**IP Configuration for PC6 in marketing VLAN (30)**

A screenshot of a computer

AI-generated content may be incorrect.

**IP Configuration for PC7 in marketing VLAN (30)**

**A screenshot of a computer

AI-generated content may be incorrect.**

**IP Configuration for PC8 in marketing VLAN (30)**

**A screenshot of a computer

AI-generated content may be incorrect.**

**IP Configuration for PC2 in HR VLAN (40)**

**A screenshot of a computer

AI-generated content may be incorrect.**

**IP Configuration for PC3 in mgmt VLAN (199)**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Static IP Configuration for NTP\_Syslog\_Web\_Server in IT VLAN (10)**

A screenshot of a computer

AI-generated content may be incorrect.

**Static IP Configuration for Internet Server1 in internet VLAN (100)**

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AI-generated content may be incorrect.

**Static IP Configuration for Internet Server2 in internet VLAN (100)**

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**Static IP Configuration for Internet Server3 in VLAN 50 (attached to LA router)**

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**Static IP Configuration for FTP\_NTP\_Syslog\_Server in HR VLAN (40)**

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**WAP Port 1 Configuration**

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