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Pod 1 Configurations:

C1:

hostname C1

ip routing

interface Port-channel1

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

interface Port-channel12

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

interface Port-channel16

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

interface FastEthernet0/1

 description Channel group 1 to A1

 switchport trunk native vlan 99

```
 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 1 mode desirable


interface FastEthernet0/2

 description Channel group 12 to Server Switch

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 12 mode desirable


interface FastEthernet0/3

 description Channel group 12 to Server Switch

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 12 mode desirable


interface FastEthernet0/4

 description Channel group 1 to A1

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 1 mode desirable


interface FastEthernet0/6
```

```
 description Channel group 16 to C2

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 16 mode desirable


interface FastEthernet0/7

 description Channel group 16 to C2

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 16 mode desirable


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 description Channel group 16 to C2

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 16 mode desirable


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 description Channel group 16 to C2

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 16 mode desirable
```

```
interface Vlan10
 ip address 192.168.2.34 255.255.255.224

interface Vlan15
 ip address 192.168.2.66 255.255.255.224

interface Vlan20
 ip address 192.168.2.98 255.255.255.224

interface Vlan25
 ip address 192.168.2.133 255.255.255.224

interface Vlan99
 ip address 192.168.2.2 255.255.255.224

banner motd ^CUnauthorized Access Is Strictly Prohibited^C

router eigrp 1
 network 192.168.2.0 0.0.0.31
 network 192.168.2.32 0.0.0.31
 network 192.168.2.64 0.0.0.31
 network 192.168.2.96 0.0.0.31

line con 0
 password cisco
```

login

enable secret cisco

service password-encryption

C2:

hostname C2

ip routing

interface Port-channel2
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk

interface Port-channel13
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk

interface Port-channel16
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk

```
interface FastEthernet0/2
 description Channel group 2 to A1
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk
 channel-group 2 mode desirable

interface FastEthernet0/3
 description Channel group 2 to A1
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk
 channel-group 2 mode desirable

interface FastEthernet0/4
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk
 channel-group 13 mode desirable

interface FastEthernet0/5
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk
 channel-group 13 mode desirable
```

```
interface FastEthernet0/6
 description Channel group 16 to C1
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk
 channel-group 16 mode desirable

interface FastEthernet0/7
 description Channel group 16 to C1
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk
 channel-group 16 mode desirable

interface FastEthernet0/8
 description Channel group 16 to C1
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk
 channel-group 16 mode desirable

interface FastEthernet0/9
 description Channel group 16 to C1
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk
```

```
 channel-group 16 mode desirable


interface Vlan10

 ip address 192.168.2.35 255.255.255.224


interface Vlan15

 ip address 192.168.2.67 255.255.255.224


interface Vlan20

 ip address 192.168.2.99 255.255.255.224


interface Vlan25

 ip address 192.168.2.134 255.255.255.224


interface Vlan99

 ip address 192.168.2.3 255.255.255.224


banner motd ^C Unauthorized Access Is Strictly Prohibited ^C


router eigrp 1

 network 192.168.2.0 0.0.0.31

 network 192.168.2.32 0.0.0.31

 network 192.168.2.64 0.0.0.31

 network 192.168.2.96 0.0.0.31


line con 0
```

password cisco

login

enable secret cisco

service password-encryption

A1:

hostname A1

interface Port-channel1
 switchport trunk native vlan 99
 switchport mode trunk

interface Port-channel2
 switchport trunk native vlan 99
 switchport mode trunk

interface FastEthernet0/1
 description Channel group 1 to C1
 switchport trunk native vlan 99
 switchport mode trunk
 channel-group 1 mode desirable

interface FastEthernet0/2
 description Channel group 2 to C2

```
 switchport trunk native vlan 99

 switchport mode trunk

 channel-group 2 mode desirable


interface FastEthernet0/3

 description Channel group 2 to C2

 switchport trunk native vlan 99

 switchport mode trunk

 channel-group 2 mode desirable


interface FastEthernet0/4

 description Channel group 1 to C1

 switchport trunk native vlan 99

 switchport mode trunk

 channel-group 1 mode desirable


interface FastEthernet0/10

 description Vlan 10 access

 switchport access vlan 10

 switchport mode access

 switchport voice vlan 15

 switchport port-security

 switchport port-security violation shutdown

 switchport port-security maximum 2

 switchport port-security mac-address sticky
```

```
interface FastEthernet0/11
 description Vlan 10 access
 switchport access vlan 10
 switchport mode access
 switchport voice vlan 15
 switchport port-security
 switchport port-security violation shutdown
 switchport port-security maximum 2
 switchport port-security mac-address sticky

interface FastEthernet0/12
 description Vlan 10 access
 switchport access vlan 10
 switchport mode access
 switchport port-security
 switchport port-security violation shutdown
 switchport port-security maximum 2
 switchport port-security mac-address sticky

interface Vlan99
 ip address 192.168.2.4 255.255.255.224

banner motd ^C Unauthorized Access Is Strictly Prohibited ^C

line con 0
 password cisco
```

login

enable secret cisco

service password-encryption

Pod 2 Configurations:

DSLAM Router:

hostname DSLAMROUTER

controller T1 0/1/0

 mode atm aim 1

 clock source internal

controller T1 0/1/1

 mode atm aim 1

 clock source internal

interface GigabitEthernet0/0

 description connects to port 7 on server switch

 ip address 192.168.2.100 255.255.255.224

interface ATM0/IMA0.1 point-to-point

 ip address 192.168.2.193 255.255.255.224

```
no atm enable-ilmi-trap

pvc 1/101


ip route 192.168.1.0 255.255.255.255 192.168.2.97


dial-peer voice 1003 voip
 destination-pattern 100.
 session target ipv4:192.168.1.210


telephony-service
 max-ephones 4
 max-dn 4
 ip source-address 192.168.2.193 port 2000
 auto assign 1 to 10
 auto assign 1 to 4
 max-conferences 8 gain -6
 transfer-system full-consult
 create cnf-files


ephone-dn  1
 number 4000


ephone-dn  2
 number 4001


ephone  1
```

device-security-mode none

    type 7940

    button 1:1

DSL Modem:

hostname DSL Modem

ip dhcp pool VOIP

   network 192.168.2.160 255.255.255.224

   default-router 192.168.2.161

   dns-server 8.8.8.8

   option 150 ip 192.168.2.193

interface ATM0

 ip address 192.168.2.194 255.255.255.224

 ip nat outside

 pvc 0/35

interface Vlan1

 ip address 192.168.2.161 255.255.255.224

 ip nat inside

ip route 0.0.0.0 0.0.0.0 192.168.2.193

```
ip nat inside source list 1 interface ATM0 overload


access-list 1 permit any
```

Server Switch:

```
hostname ServerSwitch


ip routing


interface Port-channel1
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk


interface Port-channel12
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk


interface Port-channel13
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk


interface FastEthernet0/1
 description Link to H2
```

```
switchport trunk encapsulation dot1q

switchport mode trunk


interface FastEthernet0/2

description Port channel 12 to C1

switchport trunk native vlan 99

switchport trunk encapsulation dot1q

switchport mode trunk

channel-group 12 mode desirable


interface FastEthernet0/3

description Port channel 12 to C1

switchport trunk native vlan 99

switchport trunk encapsulation dot1q

switchport mode trunk

channel-group 12 mode desirable


interface FastEthernet0/4

description Port channel 13 to C2

switchport trunk native vlan 99

switchport trunk encapsulation dot1q

switchport mode trunk

channel-group 13 mode desirable


interface FastEthernet0/5

description Port channel 13 to C2
```

```
 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 13 mode desirable


interface FastEthernet0/6

 description Link to VLAN Router

 switchport trunk encapsulation dot1q

 switchport mode trunk


interface FastEthernet0/7

 description Link to DSL Router

 switchport trunk encapsulation dot1q

 switchport mode trunk


interface FastEthernet0/8

 description Link to Access Point

 switchport trunk encapsulation dot1q

 switchport mode trunk


interface FastEthernet0/10

 description Port channel 1 to Client Switch

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 1 mode desirable
```

```
interface FastEthernet0/11
 description Port channel 1 to Client Switch
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk
 channel-group 1 mode desirable

interface Vlan10
 ip address 192.168.2.40 255.255.255.224

interface Vlan15
 ip address 192.168.2.72 255.255.255.224

interface Vlan20
 ip address 192.168.2.104 255.255.255.224

interface Vlan25
 ip address 192.168.2.130 255.255.255.224

interface Vlan99
 ip address 192.168.2.11 255.255.255.224

banner motd ^CUnauthorized Access Is Strictly Prohibited^C

router eigrp 1
```

network 192.168.2.0 0.0.0.31

network 192.168.2.32 0.0.0.31

network 192.168.2.64 0.0.0.31

network 192.168.2.96 0.0.0.31

line con 0

 password cisco

 login

enable secret cisco

service password-encryption

Client Switch:

hostname ClientSwitch

ip routing

interface Port-channel1

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

interface Port-channel2

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

switchport mode trunk

interface Port-channel3

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

interface Port-channel7

 description Channel group 7 to C5

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

interface Port-channel8

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

interface FastEthernet0/1

 description Link to H1

 switchport trunk encapsulation dot1q

 switchport mode trunk

interface FastEthernet0/2

 description Channel group 2 to C3

 switchport trunk native vlan 99

```
 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 2 mode desirable


interface FastEthernet0/3

 description Channel group 3 to C4

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 3 mode desirable


interface FastEthernet0/4

 description Channel group 2 to C3

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 2 mode desirable


interface FastEthernet0/5

 description Channel group 3 to C4

 switchport trunk native vlan 99

 channel-group 3 mode desirable


interface FastEthernet0/6

 description Channel group 7 to C5

 switchport trunk native vlan 99
```

```
 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 7 mode desirable


interface FastEthernet0/7

 description Channel group 7 to C5

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 7 mode desirable


interface FastEthernet0/8

 description Channel group 8 to C6

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 8 mode desirable


interface FastEthernet0/9

 description Channel group 8 to C6

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 8 mode desirable


interface FastEthernet0/10
```

description Channel group 1 to Server Switch

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 1 mode desirable

interface FastEthernet0/11

 description Channel group 1 to Server Switch

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 1 mode desirable

interface Vlan10

 ip address 192.168.2.41 255.255.255.224

interface Vlan15

 ip address 192.168.2.73 255.255.255.224

interface Vlan20

 ip address 192.168.2.105 255.255.255.224

interface Vlan25

 ip address 192.168.2.131 255.255.255.224

interface Vlan99

ip address 192.168.2.12 255.255.255.224

banner motd ^C Unauthorized Access Is Strictly Prohibited ^C

router eigrp 1
 network 192.168.2.0 0.0.0.31
 network 192.168.2.32 0.0.0.31
 network 192.168.2.64 0.0.0.31
 network 192.168.2.96 0.0.0.31

line con 0
 password cisco
 login

enable secret cisco

service password-encryption

H1:
hostname H1

ip domain-name lab.local

interface GigabitEthernet0/0
 description Link to Internet
 ip address 192.168.1.153 255.255.255.0

```
 ip nat outside

interface GigabitEthernet0/1
 description Link to Client Switch
 ip address 192.168.2.15 255.255.255.224
 ip nat inside
 standby 1 ip 192.168.2.13

ip nat inside source list 1 interface GigabitEthernet0/0 overload

ip route 0.0.0.0 0.0.0.0 192.168.1.1

access-list 1 permit any

banner motd ^CUnauthorized Access Is Strictly Prohibited^C

crypto key generate rsa modulus 2048

router eigrp 1
 network 192.168.2.0 0.0.0.31
 network 192.168.2.32 0.0.0.31
 network 192.168.2.64 0.0.0.31
 network 192.168.2.96 0.0.0.31

line con 0
 password cisco
```

login

 line vty 0 4

  password cisco

  login

  transport input ssh

 service password-encryption

H2:

hostname H2

ip domain-name lab.local

interface GigabitEthernet0/0

 description Link to Internet

 ip address 192.168.1.152 255.255.255.0

 ip nat outside

interface GigabitEthernet0/1

 description Link to Server Switch

 ip address 192.168.2.14 255.255.255.224

 ip nat inside

 standby 1 ip 192.168.2.13

ip nat inside source list 1 interface GigabitEthernet0/0 overload

```
ip route 0.0.0.0 0.0.0.0 192.168.1.1

access-list 1 permit any

banner motd ^CUnauthorized Access Is Strictly Prohibited^C

crypto key generate rsa modulus 2048

router eigrp 1
 network 192.168.2.0 0.0.0.31
 network 192.168.2.32 0.0.0.31
 network 192.168.2.64 0.0.0.31
 network 192.168.2.96 0.0.0.31

line con 0
 password cisco
 login

line vty 0 4
 password cisco
 login
 transport input ssh

service password-encryption
```

VR:

hostname VR

ip dhcp pool VLAN10
 network 192.168.2.32 255.255.255.224
 default-router 192.168.2.33

ip dhcp pool VLAN15
 network 192.168.2.64 255.255.255.224
 default-router 192.168.2.65

ip dhcp pool VLAN20
 network 192.168.2.96 255.255.255.224
 default-router 192.168.2.97

ip dhcp pool VLAN25
 network 192.168.2.128 255.255.255.224
 default-router 192.168.2.129

ip domain-name lab.local

interface GigabitEthernet0/0
 description Link to Server Switch
 no shutdown

interface GigabitEthernet0/0.10

description Subinterface for vlan 10

 encapsulation dot1Q 10

 ip address 192.168.2.33 255.255.255.224

interface GigabitEthernet0/0.15

 description Subinterface for vlan 15

 encapsulation dot1Q 15

 ip address 192.168.2.65 255.255.255.224

interface GigabitEthernet0/0.20

 description Subinterface for vlan 20

 encapsulation dot1Q 20

 ip address 192.168.2.97 255.255.255.224

interface GigabitEthernet0/0.25

 description Subinterface for vlan 25

 encapsulation dot1Q 25

 ip address 192.168.2.129 255.255.255.224

interface GigabitEthernet0/0.99

 description Subinterface for vlan 99

 encapsulation dot1Q 99

 ip address 192.168.2.1 255.255.255.224

ip route 0.0.0.0 0.0.0.0 192.168.2.13

```
crypto key generate rsa modulus 2048


router eigrp 1

 network 192.168.2.0 0.0.0.31

 network 192.168.2.32 0.0.0.31

 network 192.168.2.64 0.0.0.31

 network 192.168.2.96 0.0.0.31


line con 0

 password cisco

 login


line vty 0 4

 password cisco

 login

 transport input ssh


service password-encryption
```

Access Point:

```
hostname WAP


dot11 ssid Cisco_WLAN

 authentication open

 authentication key-management wpa

 guest-mode
```

wpa-psk ascii Cisco123

    bridge irb

    interface Dot11Radio0

     encryption mode ciphers aes-ccm

     ssid Cisco_WLAN

    interface BVI1

     ip address 192.168.2.131 255.255.255.224

    ip default-gateway 192.168.2.129

Pod 3 Configurations:

C3:

hostname C3

interface Port-channel2

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

interface Port-channel4

```
 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk


interface Port-channel5

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk


interface FastEthernet0/1

 description Channel group 5 to A2

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 5 mode desirable


interface FastEthernet0/2

 description Channel group 2 to Client Switch

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 2 mode desirable


interface FastEthernet0/3

 description Channel group 5 to A2

 switchport trunk native vlan 99
```

```
 channel-group 5 mode desirable


interface FastEthernet0/4
 description Channel-group 2 to Client Switch
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk


interface FastEthernet0/6
 description Channel group 4 to C4
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk
 channel-group 4 mode desirable


interface FastEthernet0/7
 description Channel group 4 to C4
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk
 channel-group 4 mode desirable


interface FastEthernet0/8
 description Channel group 4 to C4
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
```

```
  switchport mode trunk

  channel-group 4 mode desirable


interface FastEthernet0/9

 description Channel group 4 to C4

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 4 mode desirable


interface Vlan10

 ip address 192.168.2.36 255.255.255.224


interface Vlan15

 ip address 192.168.2.68 255.255.255.224


interface Vlan20

 ip address 192.168.2.100 255.255.255.224


interface Vlan25

 ip address 192.168.2.135 255.255.255.224


interface Vlan99

 ip address 192.168.2.5 255.255.255.224


banner motd ^C Unauthorized Access Is Strictly Prohibited ^C
```

```
router eigrp 1
 network 192.168.2.0 0.0.0.31
 network 192.168.2.32 0.0.0.31
 network 192.168.2.64 0.0.0.31
 network 192.168.2.96 0.0.0.31


line con 0
 password cisco
 login


enable secret cisco


service password-encryption
```

C4:

```
hostname C4


interface Port-channel3
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk


interface Port-channel4
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
```

```
 switchport mode trunk


interface Port-channel6

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk


interface FastEthernet0/2

 description Channel group 6 to A2

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 6 mode desirable


interface FastEthernet0/3

 description Channel group 3 to Client Switch

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 3 mode desirable


interface FastEthernet0/4

 description Port channel 6 to A2

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk
```

```
channel-group 6 mode desirable


interface FastEthernet0/5

 description Channel group 3 to Client Switch

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 3 mode desirable


interface FastEthernet0/6

 description Channel group 4 to C3

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 4 mode desirable


interface FastEthernet0/7

 description Channel group 4 to C3

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 4 mode desirable


interface FastEthernet0/8

 description Channel group 4 to C3

 switchport trunk native vlan 99
```

```
 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 4 mode desirable


interface FastEthernet0/9

 description Channel group 4 to C3

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 4 mode desirable


interface Vlan10

 ip address 192.168.2.37 255.255.255.224


interface Vlan15

 ip address 192.168.2.69 255.255.255.224


interface Vlan20

 ip address 192.168.2.101 255.255.255.224


interface Vlan25

 ip address 192.168.2.136 255.255.255.224


interface Vlan99

 ip address 192.168.2.6 255.255.255.224
```

banner motd ^C Unauthorized Access Is Strictly Prohibited ^C

router eigrp 1

 network 192.168.2.0 0.0.0.31

 network 192.168.2.32 0.0.0.31

 network 192.168.2.64 0.0.0.31

 network 192.168.2.96 0.0.0.31

line con 0

 password cisco

 login

enable secret cisco

service password-encryption

A2:

hostname A2

interface Port-channel5

 switchport trunk native vlan 99

 switchport mode trunk

interface Port-channel6

 switchport trunk native vlan 99

 switchport mode trunk

```
interface FastEthernet0/1
 description Channel group 5 to C3
 switchport trunk native vlan 99
 switchport mode trunk
 channel-group 5 mode desirable

interface FastEthernet0/2
 description Channel group 6 to C4
 switchport trunk native vlan 99
 switchport mode trunk
 channel-group 6 mode desirable

interface FastEthernet0/3
 description Channel group 5 to C3
 switchport trunk native vlan 99
 switchport mode trunk
 channel-group 5 mode desirable

interface FastEthernet0/4
 description Channel group 6 to C4
 switchport trunk native vlan 99
 switchport mode trunk
 channel-group 6 mode desirable

interface FastEthernet0/10
```

description Vlan 10 access

 switchport access vlan 10

 switchport mode access

 switchport voice vlan 15

 switchport port-security

 switchport port-security violation shutdown

 switchport port-security maximum 2

 switchport port-security mac-address sticky

interface FastEthernet0/11

 description Vlan 10 access

 switchport access vlan 10

 switchport mode access

 switchport voice vlan 15

 switchport port-security

 switchport port-security violation shutdown

 switchport port-security maximum 2

 switchport port-security mac-address sticky

interface FastEthernet0/12

 description Vlan 10 access

 switchport access vlan 10

 switchport mode access

 switchport port-security

 switchport port-security violation shutdown

 switchport port-security maximum 2

switchport port-security mac-address sticky

interface Vlan99

 ip address 192.168.2.7 255.255.255.224

banner motd ^C Unauthorized Access Is Strictly Prohibited ^C

line con 0

 password cisco

 login

enable secret cisco

service password-encryption

Pod 4 Configurations:

C5:

hostname C5

interface Port-channel1

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

```
interface Port-channel7
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk

interface Port-channel9
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk

interface FastEthernet0/1
 description Channel group 1 to A3
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk
 channel-group 1 mode desirable

interface FastEthernet0/2
 description Channel group 1 to A3
 switchport trunk native vlan 99
 switchport trunk encapsulation dot1q
 switchport mode trunk
 channel-group 1 mode desirable

interface FastEthernet0/6
 description Channel group 7 to Client Switch
```

```
 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 7 mode desirable


interface FastEthernet0/7

 description Channel group 7 to Client Switch

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 7 mode desirable


interface FastEthernet0/10

 description Channel group 9 to C6

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 9 mode desirable


interface FastEthernet0/11

 description Channel group 9 to C6

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 9 mode desirable
```

interface FastEthernet0/12

 description Channel group 9 to C6

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 9 mode desirable

interface FastEthernet0/13

 description Channel group 9 to C6

 switchport trunk native vlan 99

 switchport trunk encapsulation dot1q

 switchport mode trunk

 channel-group 9 mode desirable

interface Vlan10

 ip address 192.168.2.38 255.255.255.224

interface Vlan15

 ip address 192.168.2.70 255.255.255.224

interface Vlan20

 ip address 192.168.2.102 255.255.255.224

interface Vlan25

 ip address 192.168.2.137 255.255.255.224

interface Vlan99

 ip address 192.168.2.8 255.255.255.224

banner motd ^C Unauthorized Access Is Strictly Prohibited ^C

router eigrp 1

 network 192.168.2.0 0.0.0.31

 network 192.168.2.32 0.0.0.31

 network 192.168.2.64 0.0.0.31

 network 192.168.2.96 0.0.0.31

line con 0

 password cisco

 login

line vty 0 4

 password cisco

 login

 transport input ssh

service password-encryption

C6:

hostname C6

interface Port-channel2

```
  switchport trunk native vlan 99

  switchport trunk encapsulation dot1q

  switchport mode trunk


interface Port-channel8

  switchport trunk native vlan 99

  switchport trunk encapsulation dot1q

  switchport mode trunk


interface Port-channel9

  switchport trunk native vlan 99

  switchport trunk encapsulation dot1q

  switchport mode trunk


interface FastEthernet0/3

  description Channel group 2 to A3

  switchport trunk native vlan 99

  switchport trunk encapsulation dot1q

  switchport mode trunk

  channel-group 2 mode desirable


interface FastEthernet0/4

  description Channel group 2 to A3

  switchport trunk native vlan 99

  switchport trunk encapsulation dot1q

  switchport mode trunk
```

channel-group 2 mode desirable

interface FastEthernet0/8

description Channel group 8 to Client Switch

switchport trunk native vlan 99

switchport trunk encapsulation dot1q

switchport mode trunk

channel-group 8 mode desirable

interface FastEthernet0/9

description Channel group 8 to Client Switch

switchport trunk native vlan 99

switchport trunk encapsulation dot1q

switchport mode trunk

channel-group 8 mode desirable

interface FastEthernet0/10

description Channel group 9 to C5

switchport trunk native vlan 99

switchport trunk encapsulation dot1q

switchport mode trunk

channel-group 9 mode desirable

interface FastEthernet0/11

description Channel group 9 to C5

switchport trunk native vlan 99

switchport trunk encapsulation dot1q

switchport mode trunk

channel-group 9 mode desirable

interface FastEthernet0/12

description Channel group 9 to C5

switchport trunk native vlan 99

switchport trunk encapsulation dot1q

switchport mode trunk

channel-group 9 mode desirable

interface FastEthernet0/13

description Channel group 9 to C5

switchport trunk native vlan 99

switchport trunk encapsulation dot1q

switchport mode trunk

channel-group 9 mode desirable

interface Vlan10

ip address 192.168.2.39 255.255.255.224

interface Vlan15

ip address 192.168.2.71 255.255.255.224

interface Vlan20

ip address 192.168.2.103 255.255.255.224

interface Vlan25

 ip address 192.168.2.138 255.255.255.224

interface Vlan99

 ip address 192.168.2.9 255.255.255.224

banner motd ^C Unauthorized Access Is Strictly Prohibited ^C

router eigrp 1

 network 192.168.2.0 0.0.0.31

 network 192.168.2.32 0.0.0.31

 network 192.168.2.64 0.0.0.31

 network 192.168.2.96 0.0.0.31

line con 0

 password cisco

 login

enable secret cisco

service password-encryption

A3:

hostname A3

```
interface Port-channel1
 switchport trunk native vlan 99
 switchport mode trunk

interface Port-channel2
 switchport trunk native vlan 99
 switchport mode trunk

interface FastEthernet0/1
 description Channel group 1 to C5
 switchport trunk native vlan 99
 switchport mode trunk
 channel-group 1 mode desirable

interface FastEthernet0/2
 description Channel group 1 to C5
 switchport trunk native vlan 99
 switchport mode trunk
 channel-group 1 mode desirable

interface FastEthernet0/3
 description Channel group 2 to C6
 switchport trunk native vlan 99
 switchport mode trunk
 channel-group 2 mode desirable
```

```
interface FastEthernet0/4
 description Channel group 2 to C6
 switchport trunk native vlan 99
 switchport mode trunk
 channel-group 2 mode desirable

interface FastEthernet0/10
 switchport access vlan 10
 switchport mode access
 switchport voice vlan 15
 switchport port-security
 switchport port-security violation shutdown
 switchport port-security maximum 2
 switchport port-security mac-address sticky

interface FastEthernet0/11
 switchport access vlan 10
 switchport mode access
 switchport voice vlan 15
 switchport port-security
 switchport port-security violation shutdown
 switchport port-security maximum 2
 switchport port-security mac-address sticky

interface FastEthernet0/12
 switchport access vlan 10
```

```
    switchport mode access

    switchport port-security

    switchport port-security violation shutdown

    switchport port-security maximum 2

    switchport port-security mac-address sticky


interface Vlan99

 ip address 192.168.2.10 255.255.255.224


line con 0

 password cisco

 login


enable secret cisco


service password-encryption
```