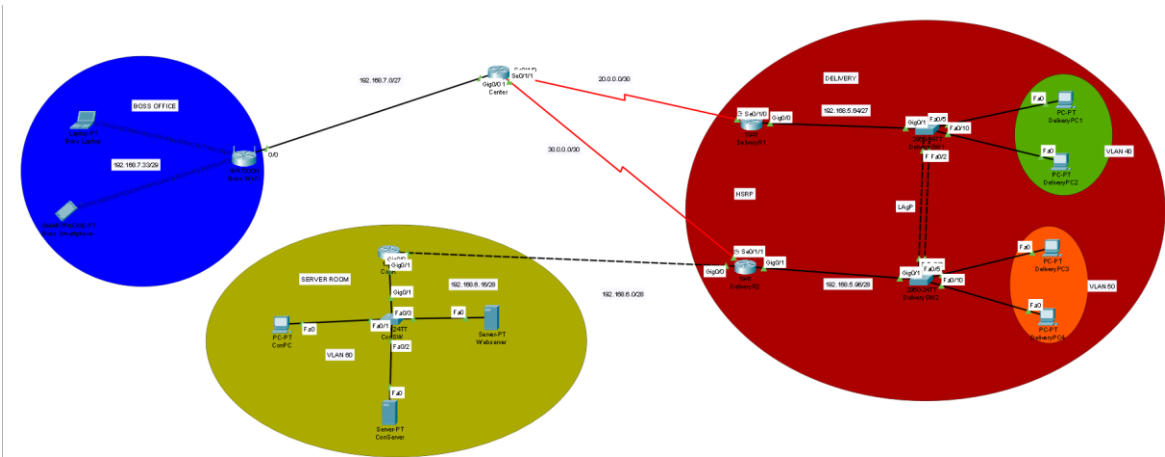


Projekt Munka tesztfázis

Topológia



IP tábla

Eszköz	Interface	IP	IPv6	Subnet	Gateway
Center	Gig/0/0	192.168.7.1	-----	/27	-----
	Se0/1/0	20.0.0.1	-----	/30	-----
	Se0/1/1	30.0.0.1	-----	/30	-----

Delivery R1	Gig0/0.40	192.168.5.65	2001:ACAD:DB8:5::2/64	/27	-----
	Se0/1/0	20.0.0.2	-----	/30	-----
Delivery R2	Gig0/0.50	192.168.5.97	2001:ACAD:DB8:5::1/64	/28	-----
	Se0/1/0	30.0.0.2	-----	/30	-----
ConR	Gig0/0	192.168.6.2	-----	/28	-----
	Gig0/1.60	192.168.6.17	-----	/28	-----

					----- -----
Boss Wi-Fi	Internet LAN	192.168.7.2 192.168.7.33	----- ----- -----	/29 /29	192.168.7.1
DeliverySW1	VLAN 40	----- -----	-----	-----	----- ----- -----
DeliverySW2	VLAN 50	----- -----	-----	-----	----- --
DeliveryPC1	NIC	DHCP	SLAAC	/27	192.168.5.65
DeliveryPC2	NIC	DHCP	SLAAC	/27	192.168.5.65
DeliveryPC3	NIC	DCHP	SLAAC	/28	192.168.5.97
DeliveryPC4	NIC	DHCP	SLAAC	/28	192.168.5.97
DeliveryServer	NIC	DHCP	SLAAC	/27	192.168.5.85
Laptop	Wireless	DHCP	-----	/29	192.168.7.1
Smartphone	Wireless	DHCP	-----	/29	192.168.7.1
ConPC	NIC	192.168.6.20	Stateful	/28	192.168.6.17
ConServer	NIC	192.168.6.25	2001:ACAD:DB8:6::1/64	/28	192.168.6.17

Vlan tábla

Eszköz neve	Azonosító	Név	Portok	Hálózat
DeliverySW1	40 99	Delivery1 Trash	Fa0/5,Fa0/10,Fa0/3 Fa0/6-9,fa0/11-24,Gig0/2	192.168.5.64/27
DeliverySW2	50 99	Delivery2 Trash	Fa0/5,Fa0/10	192.168.5.96/28

			Fa0/3-4,Fa0/6-9,Fa0/11-24,Gig0/2	
ConSW	60 99	ConVLAN Trash	Fa0/1, Fa0/2 Fa0/3-24,Gig0/2	192.168.6.16/28

EtherChannel

Protokoll	Port
LACP	Fa0/1, Fa0/2
LACP	Fa0/1, Fa0/2

Alapbeállítások:

Center:

- Password: cisco
- Minden jelszó titkosítva
- Konzol: console
- Telnet: class

DeliveryR1:

- Password: cisco
- Minden jelszó titkosítva
- Konzol: console
- Telnet: class

DeliveryR2:

- Password: cisco
- Minden jelszó titkosítva
- Konzol: console
- Telnet: class

DeliverySW1:

- Password: cisco
- Minden jelszó titkosítva
- Konzol: console
- Telnet: class

DeliverySW2:

- Password: cisco
- Minden jelszó titkosítva
- Konzol: console
- Telnet: class

ConR:

- Password: cisco
- Minden jelszó titkosítva
- Konzol: console
- Telnet: class

ConSW:

- Password: cisco
- Minden jelszó titkosítva
- Konzol: console
- Telnet: class

Linux szerver:

Your name: taco_manager

Servers name: tacos_kft

Username: taco_loco

Password:tastytaco

Groups: taco_managers

Users:

- taco_lajka
- taco_varadi
- taco_enyedi

OSPF:

Center:

- Router ID: 10.10.10.10
- Folyamatazonosító: 10

- Hálózatok megadva:
 - 20.0.0.0/30
 - 30.0.0.0/30
 - 192.168.7.0/28

DeliveryR1:

- Router ID: 1.1.1.1
- Folyamatazonosító: 1
- Hálózatok megadva:
 - 20.0.0.0/30
 - 192.168.5.0/26
 - 192.168.5.64/27

DeliveryR2:

- Routerd ID: 2.2.2.2
- Folyamatazonosító: 2
- Hálózatok megadva:
 - 30.0.0.0/30
 - 192.168.5.0/26
 - 192.168.5.96/27
 - 192.168.6.0/28

ConR:

- Router ID: 3.3.3.3
- Folyamatazonosító: 3
- Hálózatok megadva:
 - 192.168.6.0/28
 - 192.168.6.16/28

```
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, E - EGP
       i - IS-IS, 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
```

```
Gateway of last resort is not set
```

```
20.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C    20.0.0.0/30 is directly connected, Serial0/1/0
L    20.0.0.1/32 is directly connected, Serial0/1/0
30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C    30.0.0.0/30 is directly connected, Serial0/1/1
L    30.0.0.1/32 is directly connected, Serial0/1/1
192.168.5.0/24 is variably subnetted, 3 subnets, 3 masks
O    192.168.5.0/26 [110/65] via 20.0.0.2, 00:03:27, Serial0/1/0
      [110/65] via 30.0.0.2, 00:03:27, Serial0/1/1
O    192.168.5.64/27 [110/65] via 20.0.0.2, 00:04:07, Serial0/1/0
O    192.168.5.96/28 [110/65] via 30.0.0.2, 00:04:07, Serial0/1/1
192.168.6.0/28 is subnetted, 3 subnets
O    192.168.6.0/28 [110/65] via 30.0.0.2, 00:03:27, Serial0/1/1
O    192.168.6.16/28 [110/66] via 30.0.0.2, 00:03:27, Serial0/1/1
O    192.168.6.32/28 [110/66] via 30.0.0.2, 00:03:27, Serial0/1/1
192.168.7.0/24 is variably subnetted, 2 subnets, 2 masks
C    192.168.7.0/27 is directly connected, GigabitEthernet0/0
L    192.168.7.1/32 is directly connected, GigabitEthernet0/0
```

SSH:

DeliveryR1:

domain-name: taco.hu

hostname: DeliveryR1

user admin secret admin

crypto key: 1024

version 2

line vty 0 15:

login local

transport input ssh

DeliveryR2:

```
domain-name: taco.hu
hostname: DeliveryR2
user admin secret admin
crypto key: 1024
version 2

line vty 0 15:
login local
transport input ssh
```

```
ConR:
domain-name: taco.hu
hostname: ConR
user admin secret admin
crypto key: 1024
version 2

line vty 0 15:
login local
transport input ssh
```

```
Center:
domain-name: taco.hu
hostname: Center
```


user admin secret admin

crypto key: 1024

version 2

line vty 0 15:

login local

transport input ssh

NAT:

```
Router#sh ip nat translations
Pro  Inside global      Inside local      Outside local      Outside global
---  209.165.201.5         192.168.6.19      ---               ---
tcp  209.165.201.5:80     192.168.6.19:80   192.168.5.104:1026 192.168.5.104:1026
```

HSRP:

DeliveryR1

```
GigabitEthernet0/0 - Group 0 (version 2)
  State is Active
    33 state changes, last state change 00:36:15
  Virtual IP address is 192.168.5.94
  Active virtual MAC address is 0000.0C07.AC00
    Local virtual MAC address is 0000.0C07.AC00 (v2 default)
  Hello time 3 sec, hold time 10 sec
    Next hello sent in 0.994 secs
  Preemption enabled
  Active router is local
  Standby router is 192.168.5.3, priority 100 (expires in 8 sec)
  Priority 101 (configured 101)
  Group name is hsrp-Gig0/0-0 (default)
```

DeliveryR2

```
GigabitEthernet0/1 - Group 0 (version 2)
  State is Standby
    13 state changes, last state change 00:37:30
  Virtual IP address is 192.168.5.94
  Active virtual MAC address is 0000.0C07.AC00
    Local virtual MAC address is 0000.0C07.AC00 (v2 default)
  Hello time 3 sec, hold time 10 sec
    Next hello sent in 1.188 secs
  Preemption enabled
  Active router is 192.168.5.2, priority 101 (expires in 6 sec)
    MAC address is 0000.0C07.AC00
  Standby router is local
  Priority 100 (default 100)
  Group name is hsrp-Gig0/1-0 (default)
```

Port biztonság:

DeliverySW1 1/2

```
interface FastEthernet0/5
  switchport access vlan 40
  switchport mode access
  switchport port-security
  switchport port-security mac-address sticky
  switchport port-security violation restrict
  switchport port-security mac-address sticky 00D0.BC5B.D8A9
  spanning-tree portfast
  spanning-tree bpduguard enable
```

DeliverySW1 2/2

```
interface FastEthernet0/10
  switchport access vlan 40
  switchport mode access
  switchport port-security
  switchport port-security mac-address sticky
  switchport port-security violation restrict
  switchport port-security mac-address sticky 0001.646A.BB84
  spanning-tree portfast
  spanning-tree bpduguard enable
```

DeliverySW2 1/2

```
interface FastEthernet0/5
  switchport access vlan 50
  switchport mode access
  switchport port-security
  switchport port-security mac-address sticky
  switchport port-security violation restrict
  switchport port-security mac-address sticky 0060.7097.8110
  spanning-tree portfast
  spanning-tree bpduguard enable
```

DeliverySW2 2/2

```
interface FastEthernet0/10
  switchport access vlan 50
  switchport mode access
  switchport port-security
  switchport port-security mac-address sticky
  switchport port-security violation restrict
  switchport port-security mac-address sticky 00D0.58D2.83A7
  spanning-tree portfast
  spanning-tree bpduguard enable
```

ConsSW

```
interface FastEthernet0/1
  switchport access vlan 60
  switchport mode access
  switchport port-security
  switchport port-security mac-address sticky
  switchport port-security violation restrict
  switchport port-security mac-address sticky 0002.1682.947A
  spanning-tree portfast
  spanning-tree bpduguard enable
!
interface FastEthernet0/2
  switchport access vlan 60
  switchport mode access
  switchport port-security
  switchport port-security mac-address sticky
  switchport port-security violation restrict
  switchport port-security mac-address sticky 0002.4A95.CB1A
  spanning-tree portfast
  spanning-tree bpduguard enable
```

Wi-Fi beállítások:

Physical Config **GUI** Attributes

Wireless-N Broadband Router WRT500N

Setup Setup Wireless Security Access Restrictions Applications & Gaming Administration Status

Basic Setup DDNS MAC Address Clone Advanced Routing

Internet Setup

Internet Connection type Static IP

Internet IP Address: 192 . 168 . 7 . 2

Subnet Mask: 255 . 255 . 255 . 248

Default Gateway: 192 . 168 . 7 . 1

DNS 1: 0 . 0 . 0 . 0

DNS 2 (Optional): 0 . 0 . 0 . 0

DNS 3 (Optional): 0 . 0 . 0 . 0

Optional Settings (required by some internet service providers)

Host Name:

Domain Name:

MTU: Size: 1500

Network Setup

Router IP

IP Address: 192 . 168 . 7 . 33

Subnet Mask: 255.255.255.248

DHCP Server: ☒ Enabled ☐ Disabled

DHCP Reservation

Start IP Address: 192.168.7. 33

Maximum number of Users: 5

IP Address Range: 192.168.7. 33 - 37

Help...

Wireless

Setup

Wireless

Security

Access Restrictions

Applications & Gaming

Administration

Status

Basic Wireless Settings

Wireless Security

Guest Network

Wireless MAC Filter

Advanced Wireless Settings

Basic Wireless Settings

Network Mode:

Mixed

Network Name (SSID):

BossWi-Fi

Radio Band:

Auto

Wide Channel:

Auto

Standard Channel:

6 - 2.437GHz

SSID Broadcast:

Enabled

Disabled

Help...

Wireless-N Broadband Router WRT500N

Wireless	Setup	Wireless	Security	Access Restrictions	Applications & Gaming	Administration	Status
	Basic Wireless Settings	Wireless Security	Guest Network	Wireless MAC Filter			Advanced Wireless Settings

Wireless Security

Security Mode: WPA2 Personal

Encryption: AES

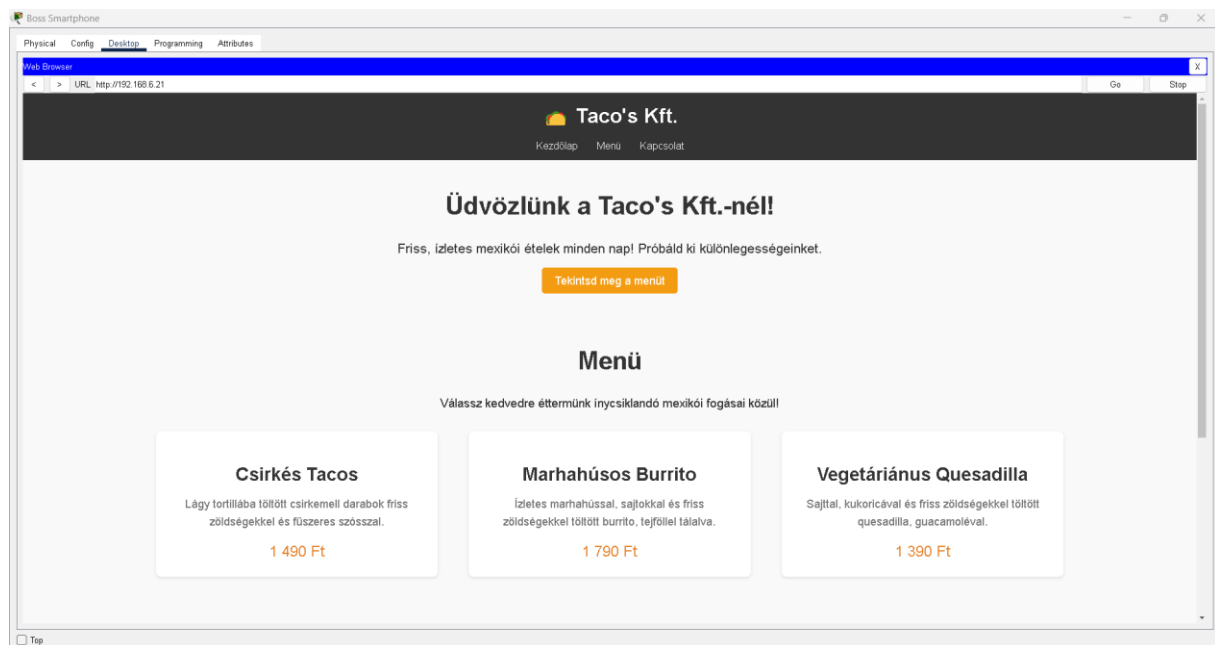
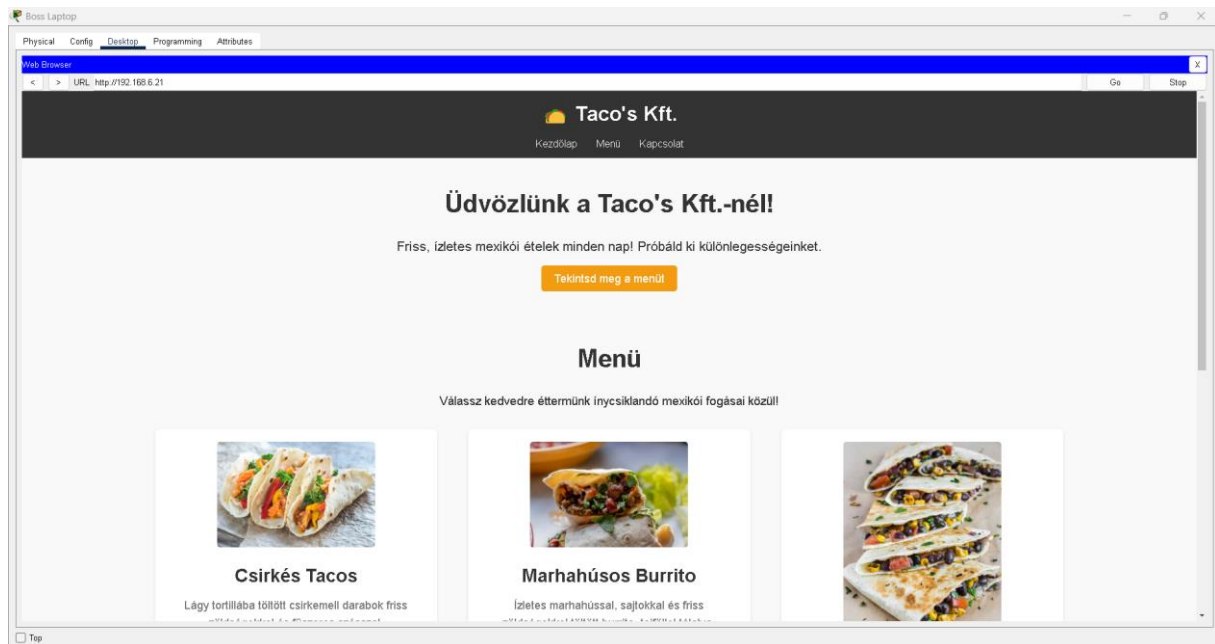
Passphrase: BossOffice12345

Key Renewal: 3600 seconds

Help...

ACL:

A 192.168.7.0-s hálózaton csak weboldalon érje el a 192.168.6.21-es Webserver-t



Etherchannel:

DeliverySW1:

```

Flags:  D - down          P - in port-channel
        I - stand-alone s - suspended
        H - Hot-standby (LACP only)
        R - Layer3        S - Layer2
        U - in use        f - failed to allocate aggregator
        u - unsuitable for bundling
        w - waiting to be aggregated
        d - default port

Number of channel-groups in use: 1
Number of aggregators:           1

Group  Port-channel  Protocol    Ports
-----+-----+-----+-----
1      Po1(SU)          PAgP       Fa0/1(P) Fa0/2(P)

```

DeliverySW2:

```

Flags:  D - down          P - in port-channel
        I - stand-alone s - suspended
        H - Hot-standby (LACP only)
        R - Layer3        S - Layer2
        U - in use        f - failed to allocate aggregator
        u - unsuitable for bundling
        w - waiting to be aggregated
        d - default port

Number of channel-groups in use: 1
Number of aggregators:           1

Group  Port-channel  Protocol    Ports
-----+-----+-----+-----
1      Po1(SU)          PAgP       Fa0/1(P) Fa0/2(P)

```

Configok

Center

!

version 15.1

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname Center

!

!

!

enable password 7 0822455D0A16

!

!

!

!

!

!

no ip cef

no ipv6 cef

!

!

!

username DeliveryR1 password 7 082048430017

username DeliveryR2 password 7 082048430017

!

!

license udi pid CISCO1941/K9 sn FTX1524U846-

!

!

!

!

!

!

!

!

!

!

!

spanning-tree mode pvst

!

!

!

!

!

!

interface GigabitEthernet0/0

ip address 192.168.7.1 255.255.255.224

duplex auto

speed auto

!

interface GigabitEthernet0/1

no ip address

duplex auto

speed auto

!

interface Serial0/1/0

ip address 20.0.0.1 255.255.255.252

encapsulation ppp

ppp authentication chap

no keepalive

ip access-group 101 in

!

interface Serial0/1/1

ip address 30.0.0.1 255.255.255.252

encapsulation ppp

ppp authentication chap

ip access-group 101 in

!

interface Vlan1

no ip address

shutdown

!

router ospf 10

router-id 10.10.10.10

log-adjacency-changes

passive-interface GigabitEthernet0/0

network 20.0.0.0 0.0.0.3 area 0

network 30.0.0.0 0.0.0.3 area 0

network 192.168.7.0 0.0.0.31 area 0

!

ip classless

ip route 0.0.0.0 0.0.0.0 GigabitEthernet0/1

!

ip flow-export version 9

!

!

access-list 101 deny ip any 0.0.0.0 255.255.255.240

!

banner motd !WARNING. You need authorization for this
device!

!

!

!

```
!  
line con 0  
  password 7 082243401A160912  
  login  
!  
line aux 0  
!  
line vty 0 4  
  password 7 0822404F1A0A  
  login  
line vty 5 15  
  password 7 0822404F1A0A  
  login  
!  
!  
!  
end
```

DeliveryR1:

```
!  
version 15.1  
no service timestamps log datetime msec
```

no service timestamps debug datetime msec

service password-encryption

!

hostname DeliveryR1

!

!

!

enable password 7 0822455D0A16

!

!

ip dhcp excluded-address 192.168.5.65 192.168.5.70

!

ip dhcp pool LAN1

network 192.168.5.64 255.255.255.224

default-router 192.168.5.94

dns-server 8.8.8.8

!

!

!

no ip cef

ipv6 unicast-routing

!

no ipv6 cef

!

!

!

!

license udi pid CISCO1941/K9 sn FTX15249UMV-

!

!

!

!

!

!

!

!

!

!

!

spanning-tree mode pvst

!

!

!

!

!

!

interface GigabitEthernet0/0

ip address 192.168.5.2 255.255.255.192

duplex auto

speed auto

ipv6 enable

ipv6 dhcp server Stateful

standby version 2

standby 1 preempt

standby 0 ip 192.168.5.94

standby priority 101

standby preempt

!

interface GigabitEthernet0/0.40

encapsulation dot1Q 40

ip address 192.168.5.65 255.255.255.224

ipv6 address 2001:ACAD:DB8:5::2/64

ipv6 enable

ipv6 ospf 1 area 0

standby version 2

!


```
interface GigabitEthernet0/1
```

```
no ip address
```

```
duplex auto
```

```
speed auto
```

```
shutdown
```

```
!
```

```
interface Serial0/1/0
```

```
ip address 20.0.0.2 255.255.255.252
```

```
clock rate 2000000
```

```
!
```

```
interface Serial0/1/1
```

```
no ip address
```

```
clock rate 2000000
```

```
shutdown
```

```
!
```

```
interface Vlan1
```

```
no ip address
```

```
shutdown
```

```
!
```

```
router ospf 1
```

```
router-id 1.1.1.1
```

```
log-adjacency-changes
```

```
network 20.0.0.0 0.0.0.3 area 0
network 192.168.5.0 0.0.0.63 area 0
network 192.168.5.64 0.0.0.31 area 0
!
ipv6 router ospf 1
router-id 1.1.1.1
log-adjacency-changes
!
ip classless
!
ip flow-export version 9
!
!
!
banner motd !WARNING. You need authorization for this
device!
!
!
!
!
line con 0
password 7 082243401A160912
```

```
login
!
line aux 0
!
line vty 0 4
password 7 0822404F1A0A
login
line vty 5 15
password 7 0822404F1A0A
login
!
!
!
end
```

DeliveryR2:

```
!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
```

hostname DeliveryR2

!

!

!

enable password 7 0822455D0A16

!

!

ip dhcp excluded-address 192.168.5.97 192.168.5.102

!

ip dhcp pool LAN2

network 192.168.5.96 255.255.255.240

default-router 192.168.5.94

dns-server 8.8.8.8

!

!

!

no ip cef

ipv6 unicast-routing

!

no ipv6 cef

!

!

!

!

license udi pid CISCO1941/K9 sn FTX1524O9WR-

!

!

!

!

!

!

!

!

!

!

!

spanning-tree mode pvst

!

!

!

!

!

!

interface GigabitEthernet0/0

ip address 192.168.6.1 255.255.255.240

duplex auto

speed auto

!

interface GigabitEthernet0/1

ip address 192.168.5.3 255.255.255.192

duplex auto

speed auto

standby version 2

standby 0 ip 192.168.5.94

standby preempt

!

interface GigabitEthernet0/1.50

encapsulation dot1Q 50

ip address 192.168.5.97 255.255.255.240

ipv6 address 2001:ACAD:DB8:5::1/64

ipv6 ospf 1 area 0

standby version 2

!

interface Serial0/1/0

no ip address

clock rate 2000000

shutdown

!

interface Serial0/1/1

ip address 30.0.0.2 255.255.255.252

clock rate 2000000

!

interface Vlan1

no ip address

shutdown

!

router ospf 2

router-id 2.2.2.2

log-adjacency-changes

network 30.0.0.0 0.0.0.3 area 0

network 192.168.5.0 0.0.0.63 area 0

network 192.168.5.96 0.0.0.15 area 0

network 192.168.6.0 0.0.0.15 area 0

!

ipv6 router ospf 1

router-id 2.2.2.2

log-adjacency-changes

!

ip classless

ip route 209.165.201.0 255.255.255.0 192.168.6.2

!

ip flow-export version 9

!

!

!

banner motd !WARNING. You need authorization for this
device!

!

!

!

!

line con 0

password 7 082243401A160912

login

!

line aux 0

!

line vty 0 4

password 7 0822404F1A0A

login


```
line vty 5 15
  password 7 0822404F1A0A
  login
  !
  !
  !
end
```

DeliverySW1:

```
!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname DeliverySW1
!
enable password 7 0822455D0A16
!
!
!
ip ssh version 2
```

```
ip domain-name taco.com
!
username admin secret 5
$1$mERr$0ixFHbQeZPA/RsivKDJhf.
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface Port-channel1
 switchport mode trunk
!
interface FastEthernet0/1
 switchport mode trunk
 channel-group 1 mode auto
!
interface FastEthernet0/2
 switchport mode trunk
 channel-group 1 mode auto
!
interface FastEthernet0/3
```

```
switchport access vlan 40
ip dhcp snooping trust
switchport mode access
!
interface FastEthernet0/4
!
interface FastEthernet0/5
switchport access vlan 40
switchport mode access
switchport port-security
switchport port-security mac-address sticky
switchport port-security violation restrict
switchport port-security mac-address sticky
00D0.BC5B.D8A9
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet0/6
switchport access vlan 99
shutdown
!
interface FastEthernet0/7
```

```
switchport access vlan 99
shutdown
!
interface FastEthernet0/8
switchport access vlan 99
shutdown
!
interface FastEthernet0/9
switchport access vlan 99
shutdown
!
interface FastEthernet0/10
switchport access vlan 40
switchport mode access
switchport port-security
switchport port-security mac-address sticky
switchport port-security violation restrict
switchport port-security mac-address sticky
0001.646A.BB84
spanning-tree portfast
spanning-tree bpduguard enable
!
```

```
interface FastEthernet0/11
switchport access vlan 99
shutdown
```

```
!
```

```
interface FastEthernet0/12
switchport access vlan 99
shutdown
```

```
!
```

```
interface FastEthernet0/13
switchport access vlan 99
shutdown
```

```
!
```

```
interface FastEthernet0/14
switchport access vlan 99
shutdown
```

```
!
```

```
interface FastEthernet0/15
switchport access vlan 99
shutdown
```

```
!
```

```
interface FastEthernet0/16
switchport access vlan 99
```

shutdown

!

interface FastEthernet0/17

switchport access vlan 99

shutdown

!

interface FastEthernet0/18

switchport access vlan 99

shutdown

!

interface FastEthernet0/19

switchport access vlan 99

shutdown

!

interface FastEthernet0/20

switchport access vlan 99

shutdown

!

interface FastEthernet0/21

switchport access vlan 99

shutdown

!

```
interface FastEthernet0/22
switchport access vlan 99
shutdown
```

```
!
```

```
interface FastEthernet0/23
switchport access vlan 99
shutdown
```

```
!
```

```
interface FastEthernet0/24
switchport access vlan 99
shutdown
```

```
!
```

```
interface GigabitEthernet0/1
ip dhcp snooping trust
switchport mode trunk
```

```
!
```

```
interface GigabitEthernet0/2
switchport access vlan 99
shutdown
```

```
!
```

```
interface Vlan1
no ip address
```

```
shutdown
!
interface Vlan40
 ip address 192.168.5.73 255.255.255.224
!
 banner motd !WARNING. You need authorization for this
device!
!
!
!
line con 0
 password 7 082243401A160912
 login
!
line vty 0 4
 password 7 0822404F1A0A
 login local
 transport input ssh
line vty 5 15
 password 7 0822404F1A0A
 login local
 transport input ssh
```


!
!
!
!
end

DeliverySW2:

!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname DeliverySW2
!
enable password 7 0822455D0A16
!
!
!
ip ssh version 2
ip domain-name taco.com
!

```
username admin secret 5
$1$mERr$vTbHul1N28cEp8lkLqrOf/
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface Port-channel1
switchport mode trunk
!
interface FastEthernet0/1
switchport mode trunk
channel-group 1 mode desirable
!
interface FastEthernet0/2
switchport mode trunk
channel-group 1 mode desirable
!
interface FastEthernet0/3
switchport access vlan 99
shutdown
```

!

```
interface FastEthernet0/4
switchport access vlan 99
shutdown
```

!

```
interface FastEthernet0/5
switchport access vlan 50
switchport mode access
switchport port-security
switchport port-security mac-address sticky
switchport port-security violation restrict
switchport port-security mac-address sticky
0060.7097.8110
spanning-tree portfast
spanning-tree bpduguard enable
```

!

```
interface FastEthernet0/6
switchport access vlan 99
shutdown
```

!

```
interface FastEthernet0/7
switchport access vlan 99
```

```
shutdown
!
interface FastEthernet0/8
  switchport access vlan 99
  shutdown
!
interface FastEthernet0/9
  switchport access vlan 99
  shutdown
!
interface FastEthernet0/10
  switchport access vlan 50
  switchport mode access
  switchport port-security
  switchport port-security mac-address sticky
  switchport port-security violation restrict
  switchport port-security mac-address sticky
00D0.58D2.83A7
  spanning-tree portfast
  spanning-tree bpduguard enable
!
interface FastEthernet0/11
```

switchport access vlan 99

shutdown

!

interface FastEthernet0/12

switchport access vlan 99

shutdown

!

interface FastEthernet0/13

switchport access vlan 99

shutdown

!

interface FastEthernet0/14

switchport access vlan 99

shutdown

!

interface FastEthernet0/15

switchport access vlan 99

shutdown

!

interface FastEthernet0/16

switchport access vlan 99

shutdown

!

```
interface FastEthernet0/17
  switchport access vlan 99
  shutdown
```

!

```
interface FastEthernet0/18
  switchport access vlan 99
  shutdown
```

!

```
interface FastEthernet0/19
  switchport access vlan 99
  shutdown
```

!

```
interface FastEthernet0/20
  switchport access vlan 99
  shutdown
```

!

```
interface FastEthernet0/21
  switchport access vlan 99
  shutdown
```

!

```
interface FastEthernet0/22
```

switchport access vlan 99

shutdown

!

interface FastEthernet0/23

switchport access vlan 99

shutdown

!

interface FastEthernet0/24

switchport access vlan 99

shutdown

!

interface GigabitEthernet0/1

ip dhcp snooping trust

switchport mode trunk

!

interface GigabitEthernet0/2

switchport access vlan 99

shutdown

!

interface Vlan1

no ip address

shutdown

!

interface Vlan50

ip address 192.168.5.109 255.255.255.240

!

banner motd !WARNING. You need authorization for this device!

!

!

!

line con 0

password 7 082243401A160912

login

!

line vty 0 4

password 7 0822404F1A0A

login local

transport input ssh

line vty 5 15

password 7 0822404F1A0A

login local

transport input ssh

!

!
!
!
end

ConR:

!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname ConR
!
!
!
enable password 7 0822455D0A16
!
!
!
!
!

!

ip cef

ipv6 unicast-routing

!

no ipv6 cef

!

!

!

!

license udi pid CISCO1941/K9 sn FTX1524P5FJ-

!

!

!

!

!

!

!

!

!

!

!

spanning-tree mode pvst

!

!

!

!

!

!

interface GigabitEthernet0/0

ip address 192.168.6.2 255.255.255.240

ip nat outside

duplex auto

speed auto

!

interface GigabitEthernet0/0.60

no ip address

!

interface GigabitEthernet0/1

ip address 192.168.6.33 255.255.255.240

ip nat inside

duplex auto

speed auto

!

interface GigabitEthernet0/1.60

```
encapsulation dot1Q 60
ip address 192.168.6.17 255.255.255.240
ipv6 enable
ipv6 ospf 1 area 0
!
interface Vlan1
no ip address
shutdown
!
router ospf 3
router-id 3.3.3.3
log-adjacency-changes
network 192.168.6.32 0.0.0.15 area 0
network 192.168.6.16 0.0.0.15 area 0
network 192.168.6.0 0.0.0.15 area 0
!
ipv6 router ospf 1
router-id 3.3.3.3
log-adjacency-changes
!
ip nat inside source static 192.168.6.19 209.165.201.5
ip classless
```

```
ip route 192.168.5.96 255.255.255.240 192.168.6.1
```

```
!
```

```
ip flow-export version 9
```

```
!
```

```
!
```

```
!
```

```
banner motd !WARNING. You need authorization for this  
device!
```

```
!
```

```
!
```

```
!
```

```
!
```

```
line con 0
```

```
password 7 082243401A160912
```

```
login
```

```
!
```

```
line aux 0
```

```
!
```

```
line vty 0 4
```

```
password 7 0822404F1A0A
```

```
login
```

```
line vty 5 15
```

password 7 0822404F1A0A

login

!

!

!

end

ConSW:

!

version 15.0

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname ConSW

!

enable password 7 0822455D0A16

!

!

!

ip ssh version 2

ip domain-name taco.com

```
!  
username admin secret 5  
$1$mERr$vTbHul1N28cEp8lkLqr0f/  
!  
!  
!  
spanning-tree mode pvst  
spanning-tree extend system-id  
!  
interface FastEthernet0/1  
switchport access vlan 60  
switchport mode access  
switchport port-security  
switchport port-security mac-address sticky  
switchport port-security violation restrict  
switchport port-security mac-address sticky  
0002.1682.947A  
spanning-tree portfast  
spanning-tree bpduguard enable  
!  
interface FastEthernet0/2  
switchport access vlan 60
```

```
switchport mode access
switchport port-security
switchport port-security mac-address sticky
switchport port-security violation restrict
switchport port-security mac-address sticky
0002.4A95.CB1A
```

```
spanning-tree portfast
spanning-tree bpduguard enable
```

```
!
```

```
interface FastEthernet0/3
```

```
!
```

```
interface FastEthernet0/4
```

```
!
```

```
interface FastEthernet0/5
```

```
!
```

```
interface FastEthernet0/6
```

```
!
```

```
interface FastEthernet0/7
```

```
!
```

```
interface FastEthernet0/8
```

```
!
```

```
interface FastEthernet0/9
```


!
interface FastEthernet0/10
!
interface FastEthernet0/11
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20

```
!  
interface FastEthernet0/21  
!  
interface FastEthernet0/22  
!  
interface FastEthernet0/23  
!  
interface FastEthernet0/24  
!  
interface GigabitEthernet0/1  
    switchport mode trunk  
!  
interface GigabitEthernet0/2  
!  
interface Vlan1  
    no ip address  
    shutdown  
!  
interface Vlan60  
    ip address 192.168.6.18 255.255.255.240  
!
```

banner motd !WARNING. You need authorization for this device!

!

!

!

line con 0

password 7 082243401A160912

login

!

line vty 0 4

password 7 0822404F1A0A

login local

transport input ssh

line vty 5 15

password 7 0822404F1A0A

login local

transport input ssh

!

!

!

!

end

