Taco’s Kft. Projektmunka

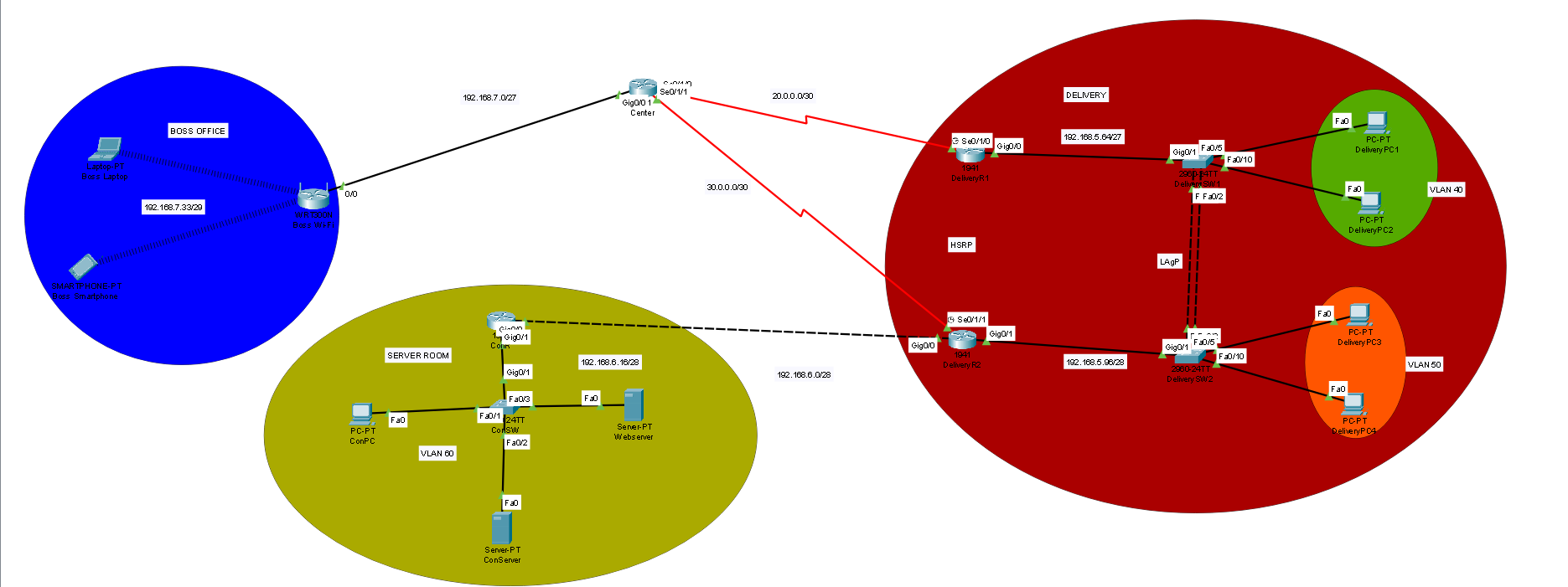
Csapattagok:

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Lajka Kristóf

Váradi Ádám

Topológia



Weboldalunk: [**https://lajkak2006.github.io/Taco-s-Kft./tacos.html**](https://lajkak2006.github.io/Taco-s-Kft./tacos.html)

IP tábla

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Eszköz | Interface | IP | IPv6 | Subnet | Gateway |
| Center | Gig/0/0  Se0/1/0  Se0/1/1 | 192.168.7.1  20.0.0.1  30.0.0.1 | --------------------------------------------------------------------------------------------- | /27  /30  /30 | -------------------------------------------------------------------------------------------- |
| Delivery R1 | Gig0/0.40  Se0/1/0 | 192.168.5.65  20.0.0.2 | 2001:ACAD:DB8:5::2/64  ------------------------------- | /27  /30 | --------------------------------------------------------------------- |
| Delivery R2 | Gig0/0.50  Se0/1/0 | 192.168.5.97  30.0.0.2 | 2001:ACAD:DB8:5::1/64  ------------------------------- | /28  /30 | --------------------------------------------------------------------- |
| ConR | Gig0/0  Gig0/1.60 | 192.168.6.2  192.168.6.17 | -------------------------------------------------------------- | /28  /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  Fa0/3-4,Fa0/6-9,Fa0/11-24,Gig0/2 | 192.168.5.96/28 |
| 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

DliverySW2:

* 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:

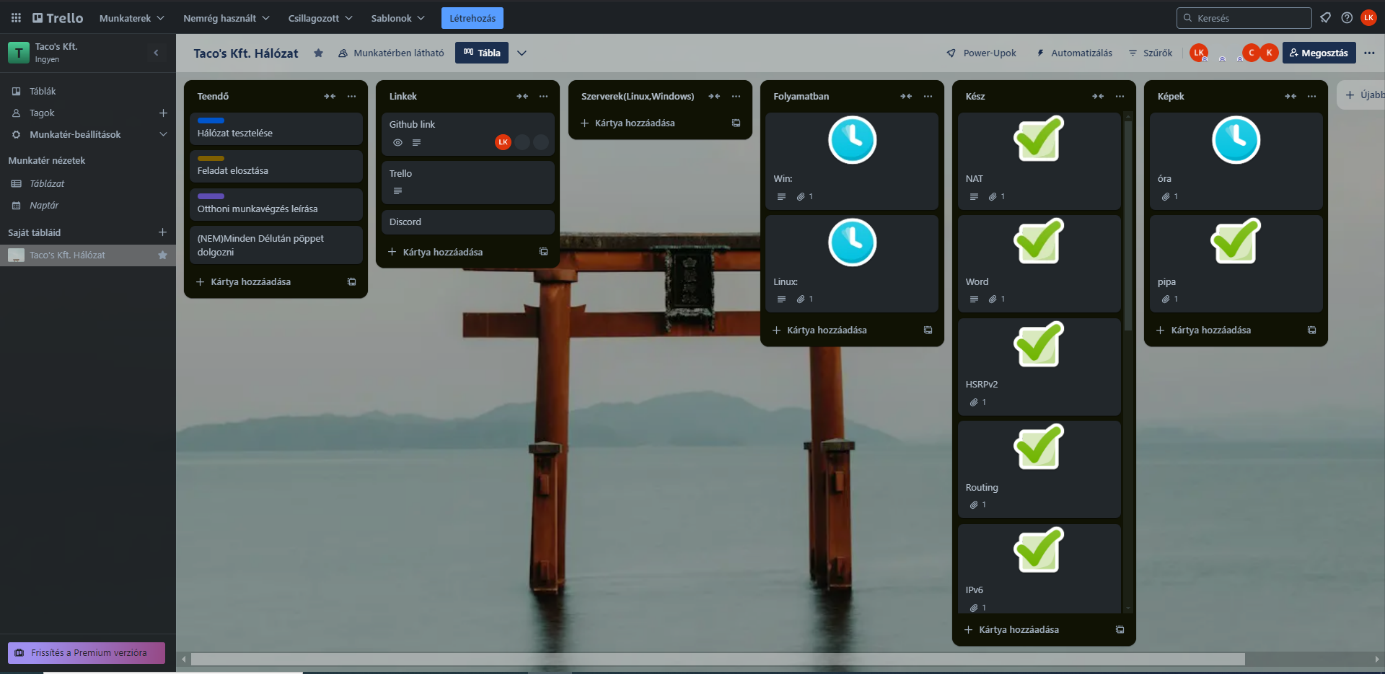
* Router ID: 3.3.3.3
* Folyamatazonosító: 3
* Hálózatok megadva:
  + 192.168.6.0/28
  + 192.168.6.16/28

A screenshot of a computer program

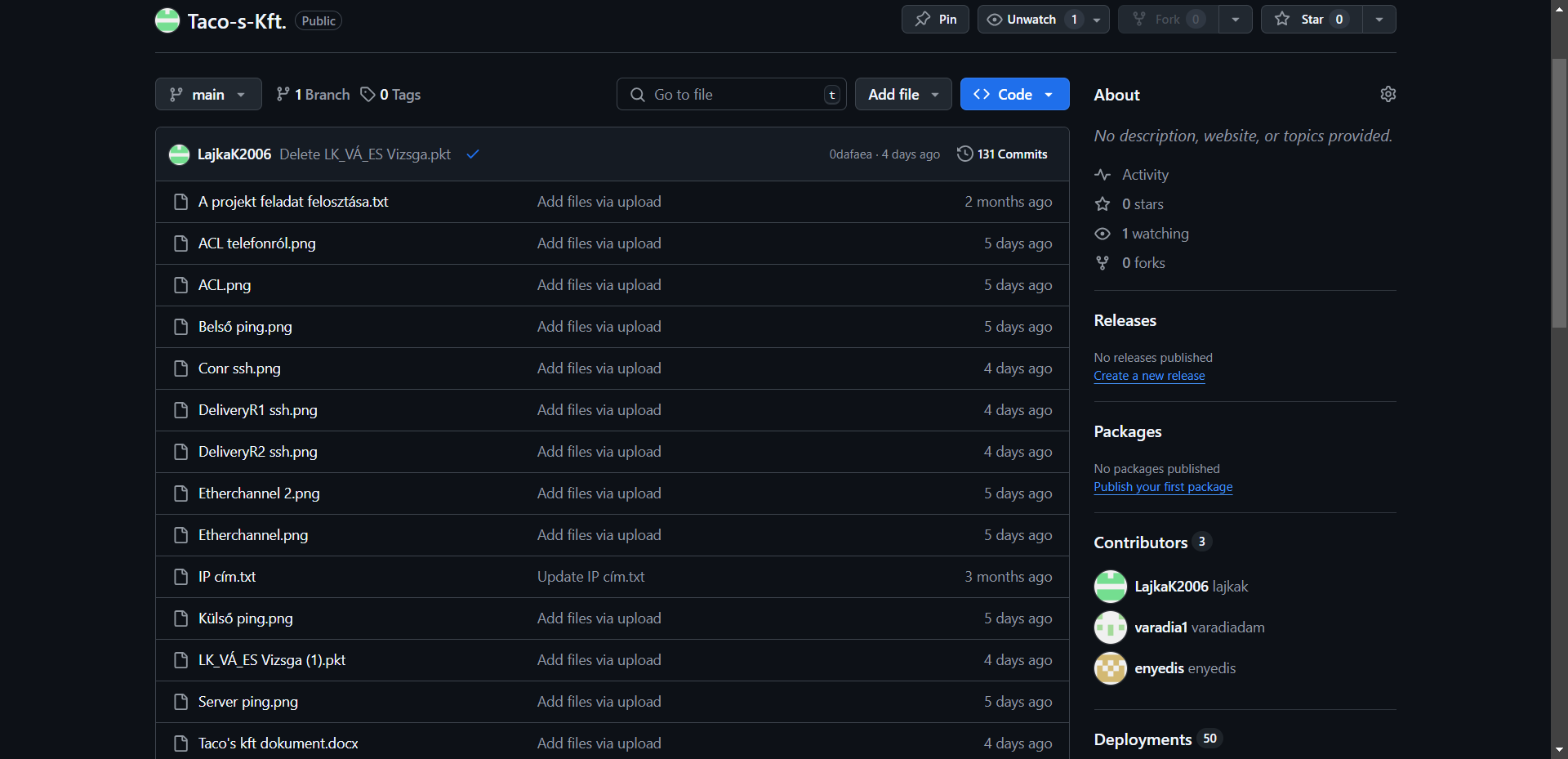
Description automatically generated

Weboldalak használata:

Trello:



Github:



Tesztelések

SSH:

DeliveryR1:

domain-name: taco.hu

hostname: DeliveryR1

user admin secret admin

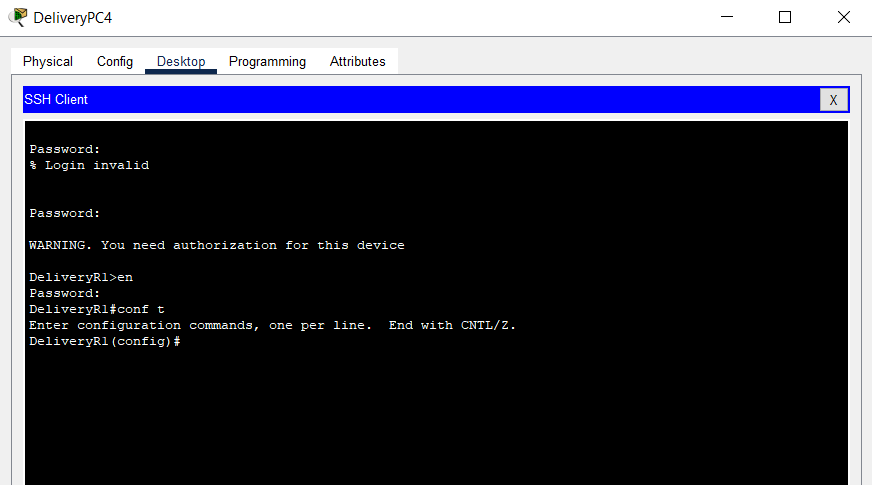
crypto key: 1024

version 2

line vty 0 15:

login local

transport input ssh



DeliveryR2:

domain-name: taco.hu

hostname: DeliveryR2

user admin secret admin

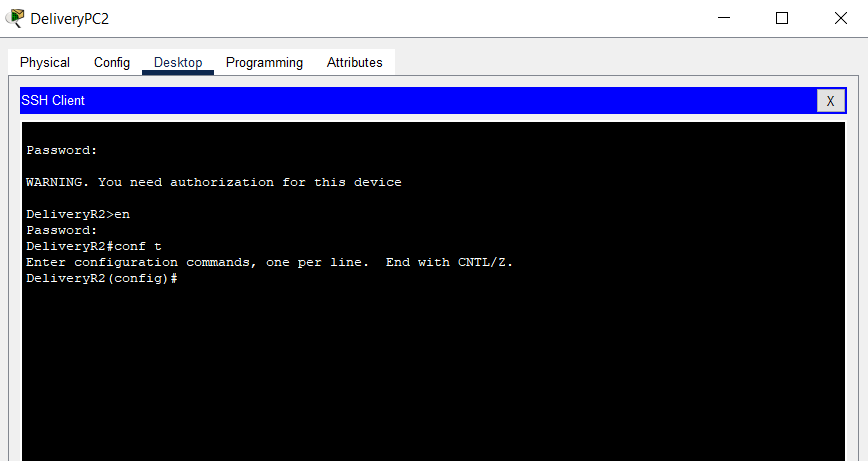
crypto key: 1024

version 2

line vty 0 15:

login local

transport input ssh



ConR:

domain-name: taco.hu

hostname: ConR

user admin secret admin

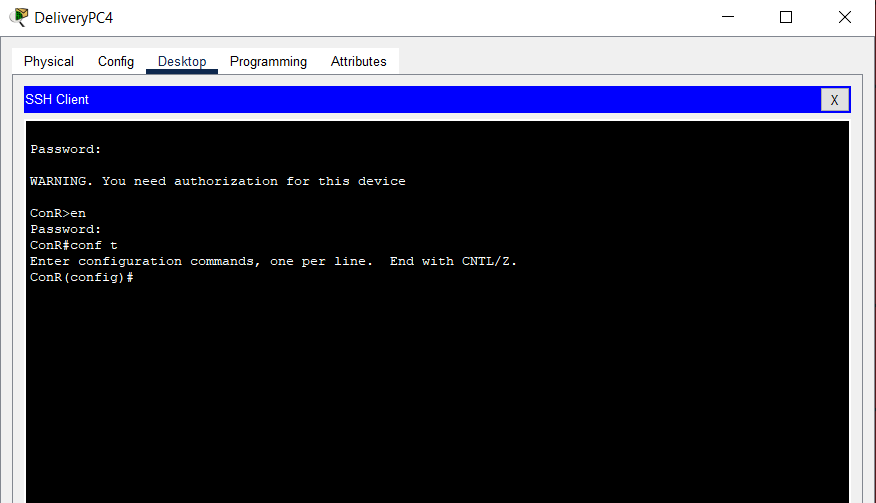
crypto key: 1024

version 2

line vty 0 15:

login local

transport input ssh



Center:

domain-name: taco.hu

hostname: Center

user admin secret admin

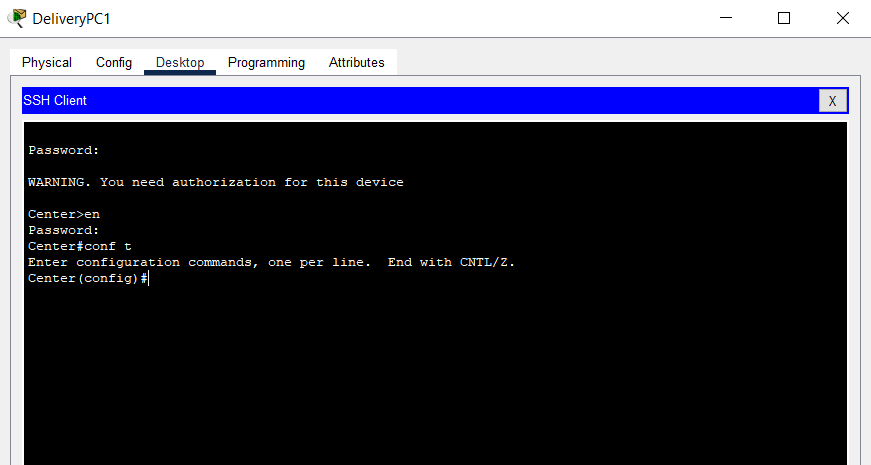
crypto key: 1024

version 2

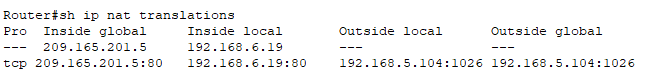
line vty 0 15:

login local

transport input ssh



NAT:



HSRP:

DeliveryR1

A computer screen shot of a number

Description automatically generated

DeliveryR2

A screenshot of a computer program

Description automatically generated

Port biztonság:

DeliverySW1 1/2

A computer screen shot of a computer code

Description automatically generated

DeliverySW1 2/2

A screenshot of a computer program

Description automatically generated

DeliverySW2 1/2

A computer code with black text

Description automatically generated

DeliverySW2 2/2

A screenshot of a computer program

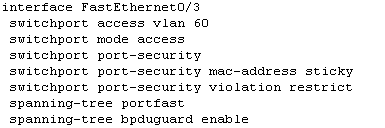
Description automatically generated

ConsSW

A computer screen shot of a computer

Description automatically generated

Webszerver:



Wi-Fi beállítások:

A screenshot of a computer

Description automatically generated

A screenshot of a computer

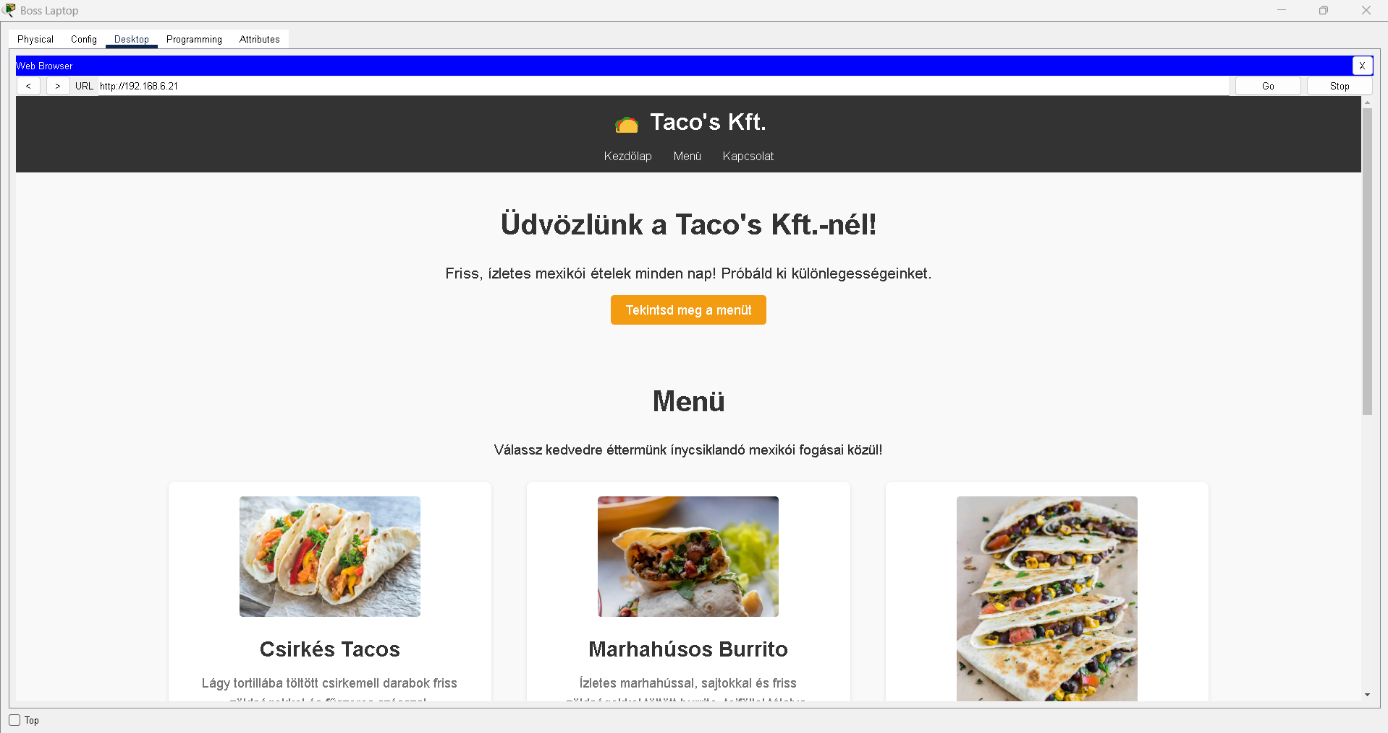
Description automatically generated

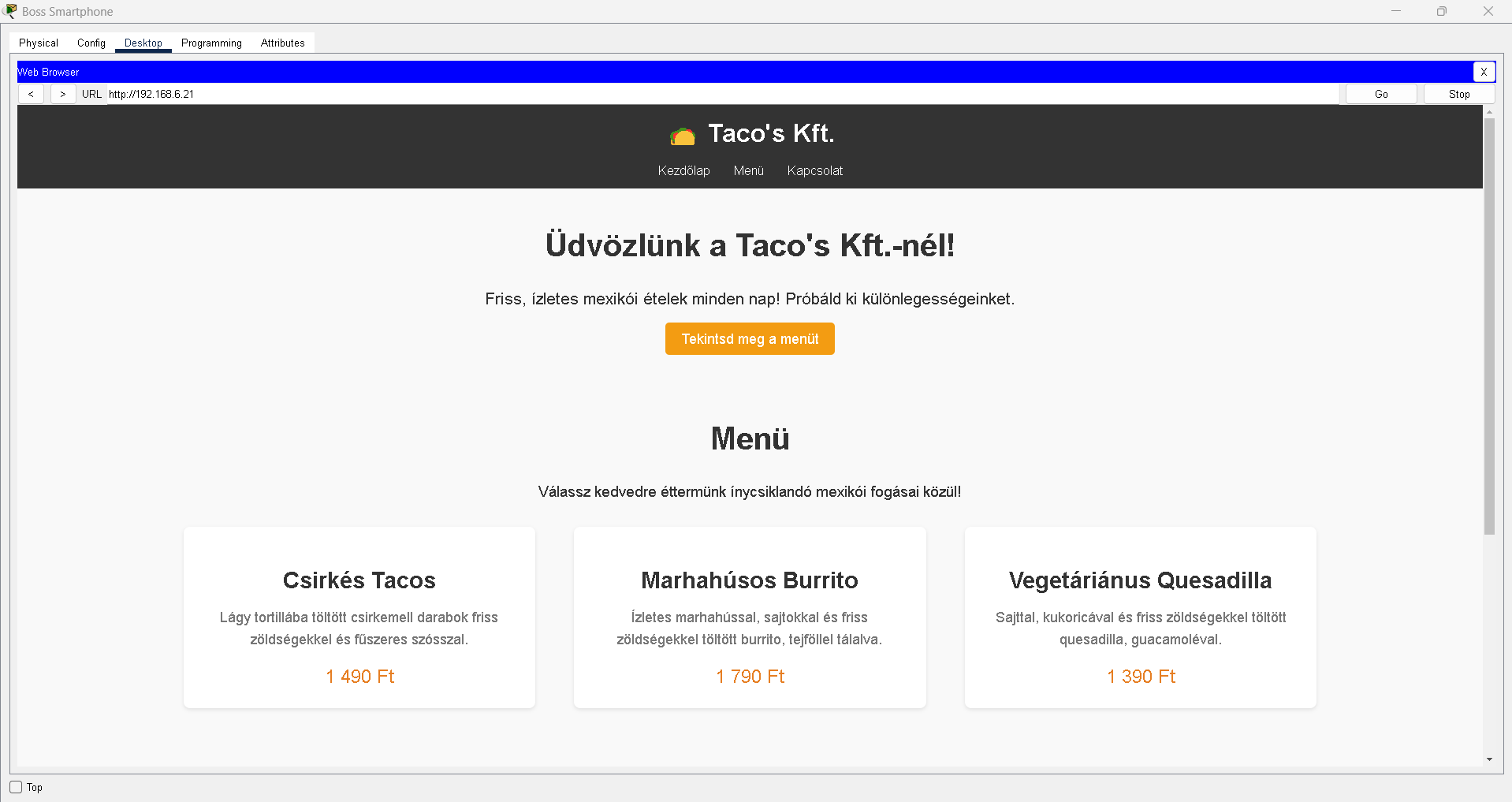
A screenshot of a computer

Description automatically generated

ACL:

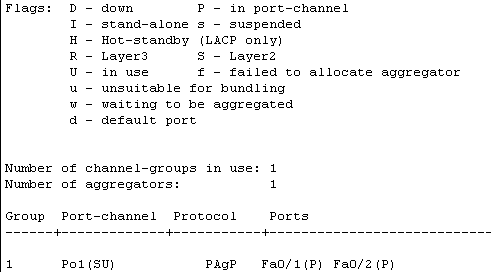
A 192.168.7.0-s hálózat csak weboldalon érje el a 192.168.6.21-es Webserver-t



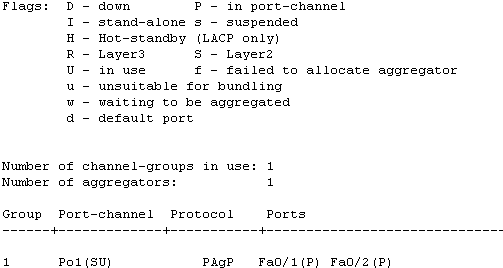


Etherchannel:

DeliverySW1:



DeliverySW2:



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$oixFHbQeZPA/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$vTbHul1N28cEp8lkLqr0f/

!

!

!

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

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