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# Kávézó terület

## Kávézó router

### EBEDLO VLAN

int gig0/0.10

encap dot1q 10

ip add 192.168.31.1 255.255.255.128

### BAR VLAN

int gig0/0.20

encap dot1q 20

ip add 192.168.31.129 255.255.255.192

### IRODA VLAN

int gig0/0.30

encap dot1q 30

ip add 192.168.31.193 255.255.255.248

### OSPF

router ospf 1

router-id 3.3.3.3

passive-interface gig0/0

network 192.168.31.0 0.0.0.127 area 0

network 192.168.31.128 0.0.0.63 area 0

network 192.168.31.192 0.0.0.7 area 0

network 100.100.100.12 0.0.0.3 area 0

network 100.100.100.20 0.0.0.3 area 0

### PPP

Még üres :’)

### GRE

int t1

ip address 200.200.200.2 255.255.255.252

tunnel source se0/0/1

tunnel destination 100.100.100.18

### NTP/SYSLOG

logging 35.125.55.126

ntp server 35.125.55.123

service timestamps log datetime msec

ntp update-calendar

### SSH

ip domain name kavezorouter.hu

crypto key generate rsa

1024

username admin privilege 15 secret admin

line vty 0 15

transport input ssh

login local

exit

ip ssh version 2

## EBED\_S Switch

### VLAN

vlan 10

name EBEDLO

vlan 20

name BAR

vlan 30

name IRODA

### Switchport mode

int gig0/1

sw mo trunk

int range fa0/1-6

sw mo trunk

### VTP

vtp mode server

vtp domain kavezo

vtp password kave123

vtp version 2

### PORTVÉDELEM

int range f0/5-24

sh

int range gig0/1-2, f0/1-4

switchport port-security mac-address sticky

switchport port-security violation restrict

switchport port-security maximum 1

### PORTÖSSZEFOGÁS

int range f0/1-2

channel-group 1 mode desirable

int range f0/3-4

channel-group 2 mode desirable

### Feszitő fa

spanning-tree mode rapid-pvst

spanning-tree vlan 10,20,30 root primary

int gig0/2

spanning-tree portfast

spanning-tree bpduguard enable

## IRODA\_S switch

### Switchport mode

int range fa0/1-6

sw mo trunk

int range fa0/3-4, fa0/24

sw mode acc

sw acc vlan 30

### VTP

vtp mode client

vtp domain kavezo

vtp password kave123

### PORTVÉDELEM

int range f0/7-23

sh

int range f0/1-6, f0/24

switchport port-security mac-address sticky

switchport port-security violation restrict

switchport port-security maximum 1

### PORTÖSSZEFOGÁS

int range f0/1-2

channel-group 1 mode desirable

int range f0/5-6

channel-group 3 mode desirable

### Feszitő fa

spanning-tree mode rapid-pvst

spanning-tree vlan 10,20,30 root secondary

int range f0/3-4, f0/24

spanning-tree portfast

spanning-tree bpduguard enable

## BAR\_S switch

### Switchport mode

int range fa0/1-6

sw mo trunk

int range fa0/2

sw mode acc

sw acc vlan 20

### VTP

vtp mode client

vtp domain kavezo

vtp password kave123

### PORTVÉDELEM

int range f0/1, f0/7-24, gig0/1

sh

int range f0/2-6, gig0/2

switchport port-security mac-address sticky

switchport port-security violation restrict

switchport port-security maximum 1

### PORTÖSSZEFOGÁS

int range f0/3-4

channel-group 2 mode desirable

int range f0/5-6

channel-group 3 mode desirable

### Feszitő fa

spanning-tree mode rapid-pvst

int range gig0/2, f0/2

spanning-tree portfast

spanning-tree bpduguard enable

# NEW YORK HOTEL Terület

## RECEPCIO Switch

### VLANOK

vlan 11

name RECEPCIO

vlan 12

name SECURITY

vlan 21

name HALO1

vlan 22

name IGAZGATOSAG

vlan 31

name HALO2

### VTP

vtp domain NYHOTEL

vtp version 2

vtp password NYHOTEL

### Switchport mode

int range fa0/21-24

switchport mode access

switchport access vlan 11

int range gig0/1, fa0/1-6

switchport mode trunk

### SPANNING TREE

spanning-tree mode rapid-pvst

spanning-tree vlan 11,12,21,22,31 root primary

int range fa0/21-24

spanning-tree portfast

spanning-tree bpduguard enable

### PORTÖSSZEFOGÁS

int range fa0/1-2

channel-group 1 mode desirable

int port-channel 1

switchport mode trunk

int range fa0/5-6

channel-group 2 mode desirable

int port-channel 2

switchport mode trunk

int range fa0/3-4

channel-group 3 mode desirable

int port-channel 3

switchport mode trunk

### PORTVÉDELEM

int range f0/7-20, gig0/2

sh

int range gig0/1, f0/1-6, f0/21-24

switchport port-security mac-address sticky

switchport port-security violation restrict

switchport port-security maximum 1

## SECURITY Switch

### VTP

vtp mode client

vtp domain NYHOTEL

vtp password NYHOTEL

### Switchport mode

int range fa0/22-24

switchport mode access

switchport access vlan 12

### SPANNING TREE

spanning-tree mode rapid-pvst

spanning-tree vlan 11,12,21,22,31 root secondary

int range fa0/22-24

spanning-tree bpduguard enable

spanning-tree portfast

## IGAZGATOSAG Switch

### VTP

vtp mode client

vtp domain NYHOTEL

vtp password NYHOTEL

### Switchport mode

int range fa0/22-24

switchport mode access

switchport access vlan 22

### SPANNING TREE

spanning-tree mode rapid-pvst

int range fa0/23-24

spanning-tree portfast

spanning-tree bpduguard enable

### PORTÖSSZEFOGÁS

int range fa0/1-2

channel-group 6 mode desirable

int port-channel 6

switchport mode trunk

int range fa0/3-4

channel-group 4 mode desirable

int port-channel 4

switchport mode trunk

int range fa0/5-6

channel-group 2 mode desirable

int port-channel 2

switchport mode trunk

### PORTVÉDELEM

int range f0/7-21, gig0/1-2

sh

int range f0/1-6, f0/22-24 ?

switchport port-security mac-address sticky

switchport port-security violation restrict

switchport port-security maximum 1

## SZOBAK1 Switch

### VTP

vtp mode client

vtp domain NYHOTEL

vtp password NYHOTEL

### Switchport mode

int fa0/24

switchport mode access

switchport access vlan 21

### SPANNING TREE

spanning-tree mode rapid-pvst

int fa0/24

spanning-tree bpduguard enable

### PORTÖSSZEFOGÁS

int range fa0/1-2

channel-group 5 mode desirable

int port-channel 5

switchport mode trunk

int range fa0/3-4

channel-group 3 mode desirable

int port-channel 3

switchport mode trunk

### PORTVÉDELEM

int range f0/5-23, gig0/1-2

sh

int range f0/1-4, f0/24 ?

switchport port-security mac-address sticky

switchport port-security violation restrict

switchport port-security maximum 1

## SZOBAK2 Switch

### VTP

vtp mode client

vtp domain NYHOTEL

vtp password NYHOTEL

### Switchport mode

int fa0/24

switchport mode access

switchport access vlan 31

### SPANNING TREE

spanning-tree mode rapid-pvst

int fa0/24

spanning-tree bpduguard enable

### PORTÖSSZEFOGÁS

int range fa0/1-2

channel-group 5 mode desirable

int port-channel 5

switchport mode trunk

int range fa0/3-4

channel-group 6 mode desirable

int port-channel 6

switchport mode trunk

### PORTVÉDELEM

int range f0/5-23, gig0/1-2

sh

int range f0/1-4, f0/24 ?

switchport port-security mac-address sticky

switchport port-security violation restrict

switchport port-security maximum 1

## New York Hotel Router

### Recepció VLAN

int gig0/0.11

encapsulation dot1q 11

ip add 172.16.0.81 255.255.255.248

### Security VLAN

int gig0/0.12

encapsulation dot1q 12

ip add 172.16.0.89 255.255.255.248

### Hálószobák1 VLAN

int gig0/0.21

encapsulation dot1q 21

ip add 172.16.0.1 255.255.255.224

### Igazgatóság VLAN

int gig0/0.22

encapsulation dot1q 22

ip add 172.16.0.65 255.255.255.248

### Hálószobák2 VLAN

int gig0/0.31

encapsulation dot1q 31

ip add 172.16.0.33 255.255.255.224

### VLAN

int gig0/0

no sh

### OSPF

router ospf 1

router-id 2.2.2.2

passive-interface gig0/0

passive-interface gig0/0.11

passive-interface gig0/0.12

passive-interface gig0/0.21

passive-interface gig0/0.22

passive-interface gig0/0.31

network 172.16.0.0 0.0.0.31 area 0

network 172.16.0.32 0.0.0.31 area 0

network 172.16.0.64 0.0.0.7 area 0

network 172.16.0.80 0.0.0.7 area 0

network 172.16.0.88 0.0.0.7 area 0

network 100.100.100.28 0.0.0.3 area 0

network 100.100.100.20 0.0.0.3 area 0

### PPP

Még üres

### HSRP

int g0/0.11

standby ver 2

standby 11 ip 172.16.0.86

standby 11 priority 150

standby 11 preempt

int g0/0.12

standby ver 2

standby 12 ip 172.16.0.94

standby 12 priority 150

standby 12 preempt

int g0/0.21

standby ver 2

standby 21 ip 172.16.0.30

standby 21 priority 150

standby 21 preempt

int g0/0.22

standby ver 2

standby 22 ip 172.16.0.78

standby 22 priority 150

standby 22 preempt

int g0/0.31

standby ver 2

standby 31 ip 172.16.0.62

standby 31 priority 150

standby 31 preempt

### DHCP

ip dhcp pool VLAN21

network 172.16.0.0 255.255.255.224

default-router 172.16.0.30

ip dhcp pool VLAN31

network 172.16.0.32 255.255.255.224

default-router 172.16.0.62

ip dhcp excluded-address 172.16.0.81

ip dhcp excluded-address 172.16.0.89

ip dhcp excluded-address 172.16.0.1

ip dhcp excluded-address 172.16.0.2

ip dhcp excluded-address 172.16.0.82

ip dhcp excluded-address 172.16.0.90

ip dhcp excluded-address 172.16.0.33

ip dhcp excluded-address 172.16.0.34

ip dhcp excluded-address 172.16.0.65

ip dhcp excluded-address 172.16.0.66

ip dhcp excluded-address 172.16.0.86

ip dhcp excluded-address 172.16.0.94

ip dhcp excluded-address 172.16.0.30

ip dhcp excluded-address 172.16.0.62

ip dhcp excluded-address 172.16.0.78

### NTP/SYSLOG

logging 35.125.55.126

ntp server 35.125.55.123

service timestamps log datetime msec

ntp update-calendar

### SSH

ip domain name newyorkrouter.hu

crypto key generate rsa

1024

username admin privilege 15 secret admin

line vty 0 15

transport input ssh

login local

exit

ip ssh version 2

## Backup router

### Static route

ip route 0.0.0.0 0.0.0.0 gig0/2/0

### OSPF

router ospf 1

router-id 5.5.5.5

network 100.100.100.36 0.0.0.3 area 0

network 100.100.100.32 0.0.0.3 area 0

network 100.100.100.40 0.0.0.3 area 0

network 172.16.0.0 0.0.0.31 area 0

network 172.16.0.32 0.0.0.31 area 0

network 172.16.0.64 0.0.0.7 area 0

network 172.16.0.80 0.0.0.7 area 0

network 172.16.0.88 0.0.0.7 area 0

network 100.100.100.28 0.0.0.3 area 0

network 100.100.100.20 0.0.0.3 area 0

passive-interface gig0/0

passive-interface gig0/0.11

passive-interface gig0/0.12

passive-interface gig0/0.21

passive-interface gig0/0.22

passive-interface gig0/0.31

passive-interface gig0/2/0

default-information originate

### Recepció VLAN

int gig0/0.11

encapsulation dot1q 11

ip add 172.16.0.82 255.255.255.248

### Security VLAN

int gig0/0.12

encapsulation dot1q 12

ip add 172.16.0.90 255.255.255.248

### Hálószobák1 VLAN

int gig0/0.21

encapsulation dot1q 21

ip add 172.16.0.2 255.255.255.224

### Igazgatóság VLAN

int gig0/0.22

encapsulation dot1q 22

ip add 172.16.0.66 255.255.255.248

### Hálószobák2 VLAN

int gig0/0.31

encapsulation dot1q 31

ip add 172.16.0.34 255.255.255.224

### VLAN

int gig0/0

no sh

### HSRP

int g0/0.11

standby ver 2

standby 11 ip 172.16.0.86

int g0/0.12

standby ver 2

standby 12 ip 172.16.0.94

int g0/0.21

standby ver 2

standby 21 ip 172.16.0.30

int g0/0.22

standby ver 2

standby 22 ip 172.16.0.78

int g0/0.31

standby ver 2

standby 31 ip 172.16.0.62

### DHCP

ip dhcp pool VLAN21

network 172.16.0.0 255.255.255.224

default-router 172.16.0.30

ip dhcp pool VLAN31

network 172.16.0.32 255.255.255.224

default-router 172.16.0.62

ip dhcp excluded-address 172.16.0.81

ip dhcp excluded-address 172.16.0.89

ip dhcp excluded-address 172.16.0.1

ip dhcp excluded-address 172.16.0.2

ip dhcp excluded-address 172.16.0.82

ip dhcp excluded-address 172.16.0.90

ip dhcp excluded-address 172.16.0.33

ip dhcp excluded-address 172.16.0.34

ip dhcp excluded-address 172.16.0.65

ip dhcp excluded-address 172.16.0.66

ip dhcp excluded-address 172.16.0.86

ip dhcp excluded-address 172.16.0.94

ip dhcp excluded-address 172.16.0.30

ip dhcp excluded-address 172.16.0.62

ip dhcp excluded-address 172.16.0.78

### PAT

int gig0/2/0

ip nat outside

int gig0/0

ip nat inside

int se0/1/0

ip nat inside

int se0/0/0

ip nat inside

ip access-list standard 60

permit 35.125.55.0 0.0.0.127

permit 192.168.54.0 0.0.0.31

permit 192.168.54.32 0.0.0.7

permit 192.168.31.0 0.0.0.127

permit 192.168.31.248 0.0.0.7

permit 192.168.31.128 0.0.0.63

permit 172.16.0.80 0.0.0.7

permit 172.16.0.88 0.0.0.7

permit 172.16.0.0 0.0.0.31

permit 172.16.0.64 0.0.0.15

permit 172.16.0.32 0.0.0.31

ip nat pool PATPOOL2 51.51.51.51 51.51.51.51 netmask 255.255.255.0

ip nat inside source list 60 pool PATPOOL2 overload

### NTP/SYSLOG

logging 35.125.55.126

ntp server 35.125.55.123

service timestamps log datetime msec

ntp update-calendar

### SSH

ip domain name backuprouter.hu

crypto key generate rsa

1024

username admin privilege 15 secret admin

line vty 0 15

transport input ssh

login local

exit

ip ssh version 2

# Üzemeltetők terület

## Üzemeltetők router

### Static route

ip route 0.0.0.0 0.0.0.0 gig0/0/0

### OSPF

router ospf 1

router-id 1.1.1.1

passive-interface gig0/0

passive-interface gig0/0/0

network 35.125.55.0 0.0.0.127 area 0

network 100.100.100.28 0.0.0.3 area 0

network 100.100.100.16 0.0.0.3 area 0

network 100.100.100.20 0.0.0.3 area 0

default-information originate

### OSPFv3

ipv6 router ospf 2

passive-interface gig0/0

passive-interface gig0/0/0

default-information originate

int gig0/0

ipv6 ospf 2 area 0

int se0/1/0

ipv6 ospf 2 area 0

### PPP

int se0/1/0

encap ppp

ppp authentication chap

exit

username Laguna secret cisco

### GRE

int t1

ip address 200.200.200.1 255.255.255.252

tunnel source se0/1/0

tunnel destination 100.100.100.22

### ACL

Üzemeltetők

ip access-list extended noping

deny icmp any host 35.125.55.126 echo

deny icmp any host 35.125.55.125 echo

deny icmp any host 35.125.55.124 echo

deny icmp any host 35.125.55.123 echo

int g0/0

ip access-group noping out

### PAT

int gig0/0

ip nat inside

int se0/1/0

ip nat inside

int se0/1/1

ip nat inside

int se0/2/0

ip nat inside

int gig0/0/0

ip nat outside

ip access-list standard 60

permit 35.125.55.0 0.0.0.127

permit 192.168.54.0 0.0.0.31

permit 192.168.54.32 0.0.0.7

permit 192.168.31.0 0.0.0.127

permit 192.168.31.248 0.0.0.7

permit 192.168.31.128 0.0.0.63

permit 172.16.0.80 0.0.0.7

permit 172.16.0.88 0.0.0.7

permit 172.16.0.0 0.0.0.31

permit 172.16.0.64 0.0.0.15

permit 172.16.0.32 0.0.0.31

ip nat pool PATPOOL1 50.50.50.50 50.50.50.50 netmask 255.255.255.0

ip nat inside source list 60 pool PATPOOL1 overload

### NTP/SYSLOG

logging 35.125.55.126

ntp server 35.125.55.123

service timestamps log datetime msec

ntp update-calendar

### IPv6

ipv6 unicast-routing

int gig0/0

ipv6 enable

ipv6 address 2001:A1A1:B1B1:C1C1::/64

ipv6 address FE80::1 link-local

int se0/1/0

ipv6 enable

ipv6 address 2001:A3A3:B3B3:C3C3::/64

ipv6 address FE80::1 link-local

### SSH

ip domain name uzemeltetokrouter.hu

crypto key generate rsa

1024

username admin privilege 15 secret admin

line vty 0 15

transport input ssh

login local

exit

ip ssh version 2

# Laguna Motel Terület

## Laguna Motel router

### OSPF

router ospf 1

router-id 4.4.4.4

passive-interface gig0/0

passive-interface gig0/1

network 192.168.54.40 0.0.0.3 area 0

network 192.168.54.32 0.0.0.7 area 0

network 100.100.100.16 0.0.0.3 area 0

network 100.100.100.12 0.0.0.3 area 0

### OSPFv3

ipv6 router ospf 2

router-id 4.4.4.4

passive-interface gig0/0

passive-interface gig0/1

int gig0/1

ipv6 ospf 2 area 0

int se0/0/0

ipv6 ospf 2 area 0

### PPP

int se0/0/0

encap ppp

ppp authentication chap

exit

username Uzemeltetok secret cisco

### NTP/SYSLOG

logging 35.125.55.126

ntp server 35.125.55.123

service timestamps log datetime msec

ntp update-calendar

### IPv6

ipv6 unicast-routing

int range gig0/0-1

ipv6 enable

int gig0/1

ipv6 address 2001:A2A2:B2B2:C2C2::/64

ipv6 address FE80::1 link-local

int se0/0/0

ipv6 enable

ipv6 address 2001:A3A3:B3B3:C3C3::1/64

ipv6 address FE80::1 link-local

### SSH

ip domain name lagunarouter.hu

crypto key generate rsa

1024

username admin privilege 15 secret admin

line vty 0 15

transport input ssh

login local

exit

ip ssh version 2

# Távmunkás Terület

## Home router

### Static route

ip route 0.0.0.0 0.0.0.0 gig0/0/0

### PAT

int gig0/0

ip nat inside

int gig0/0/0

ip nat outside

ip access-list standard 60

permit 192.168.1.0 0.0.0.255

ip nat pool PATHOME 60.60.60.60 60.60.60.60 netmask 255.255.255.0

ip nat inside source list 60 pool PATHOME overload

# ISP Terület

## ISP router

### Config

Hostname

hostname ISP\_R

### IP Címzés

Interface GIG0/0

ip address 100.100.100.1 255.255.255.248

Interface GIG0/0/0

ip address 100.100.100.25 255.255.255.252

Interface GIG0/1/0

ip address 100.100.100.9 255.255.255.252

### Static route

ip route 60.60.60.60 255.255.255.0 100.100.100.10

ip route 51.51.51.51 255.255.255.0 100.100.100.41

ip route 50.50.50.50 255.255.255.0 100.100.100.26