R1_VLAN (SW1_3560)

```
hostname R1_VLAN

vlan 8
name VerHa
exit

vlan 16
name WLAN
exit

vlan 24
name Myy
exit

vlan 48
name Osto
exit

ip routing

interface vlan 1
ip address 172.21.1.1 255.255.255.0
exit

interface vlan 8
ip address 172.21.8.1 255.255.254.0
exit
```

```
interface vlan 16
ip address 172.21.16.1 255.255.252.0
exit


interface vlan 24
ip address 172.21.24.1 255.255.248.0
exit


interface vlan 48
ip address 172.21.48.1 255.255.240.0
exit


interface range f0/21-22
channel-group 1 mode active
exit
interface port-channel 1
switchport trunk encapsulation dot1q
switchport mode trunk
switchport trunk allowed vlan 1,8,16,24,48
switchport trunk native vlan 8
exit


interface f0/24
no switchport
ip address 192.168.12.1 255.255.255.240
no shutdown
exit


interface f0/23
switchport mode access
switchport access vlan 1
```

```
switchport nonegotiate
exit


interface f0/1
switchport mode access
switchport access vlan 1
switchport nonegotiate
exit


interface range f0/2-3
switchport mode access
switchport access vlan 8
switchport nonegotiate
exit


interface range f0/4-8
switchport mode access
switchport access vlan 16
switchport nonegotiate
exit


interface range f0/9-14
switchport mode access
switchport access vlan 24
switchport nonegotiate
exit


interface range f0/15-20
switchport mode access
switchport access vlan 48
switchport nonegotiate
```

```
exit

interface loopback 0
ip address 10.1.1.1 255.255.255.255
exit

router ospf 3
router-id 11.1.1.1
exit

router ospf 3
interface f0/24
ip ospf 3 area 0
exit

router ospf 3
interface loopback 0
ip ospf 3 area 0
exit

router ospf 3
interface vlan 1
ip ospf 3 area 0
exit

router ospf 3
interface vlan 8
ip ospf 3 area 0
exit

router ospf 3
```

```
interface vlan 16

ip ospf 3 area 0

exit


router ospf 3

interface vlan 24

ip ospf 3 area 0

exit


router ospf 3

interface vlan 48

ip ospf 3 area 0

exit


router ospf 3

passive-interface default

no passive-interface f0/24


redistribute connected subnets
```

R2_Reuna

```
hostname R2_Reuna


interface loopback 0

ip address 10.2.2.2 255.255.255.255

exit
```

interface loopback 21

ip address 172.22.0.1 255.255.252.0

exit

interface loopback 22

ip address 172.22.4.1 255.255.252.0

exit

interface loopback 23

ip address 172.22.8.1 255.255.252.0

exit

interface loopback 24

ip address 172.22.12.1 255.255.252.0

exit

interface g0/0

ip address 192.168.12.2 255.255.255.240

no shutdown

exit

interface g0/1

ip address 192.168.23.2 255.255.255.240

no shutdown

exit

interface g0/2

ip address 192.168.1.2 255.255.255.252

no shutdown

exit

```
ip route 0.0.0.0 0.0.0.0 192.168.1.1


router ospf 3

router-id 22.1.1.1

exit


router ospf 3

interface g0/0

ip ospf 3 area 0

exit


router ospf 3

interface g0/1

ip ospf 3 area 0

exit


interface loopback 0

ip ospf 3 area 0

exit


interface loopback 21

ip ospf 3 area 0

exit


interface loopback 22

ip ospf 3 area 0

exit


interface loopback 23

ip ospf 3 area 0
```

```
exit

interface loopback 24
ip ospf 3 area 0
exit

router ospf 3
passive-interface default
no passive-interface g0/0
no passive-interface g0/1

Default-information originate

redistribute connected subnets
```

R3_ETA

```
hostname R3_Eta

interface f0/1
ip address 192.168.23.3 255.255.255.240
no shutdown
exit

interface loopback 0
ip address 10.3.3.3 255.255.255.255
exit
```

interface loopback 1

ip address 172.23.0.1 255.255.248.0

exit

interface loopback 8

ip address 172.23.8.1 255.255.248.0

exit

interface loopback 16

ip address 172.23.16.1 255.255.248.0

exit

interface loopback 24

ip address 172.23.24.1 255.255.248.0

exit

interface loopback 64

ip address 172.23.64.1 255.255.240.0

exit

interface loopback 80

ip address 172.23.80.1 255.255.240.0

exit

interface loopback 96

ip address 172.23.96.1 255.255.240.0

exit

interface loopback 112

ip address 172.23.112.1 255.255.240.0

```
exit

router ospf 3
interface f0/1
ip ospf 3 area 0
exit

router ospf 3
interface loopback 0
ip ospf 3 area 0
exit

router ospf 3
interface loopback 1
ip ospf 3 area 0
exit

router ospf 3
interface loopback 8
ip ospf 3 area 0
exit

router ospf 3
interface loopback 16
ip ospf 3 area 0
exit

router ospf 3
interface loopback 24
ip ospf 3 area 0
exit
```

```
router ospf 3

interface loopback 64

ip ospf 3 area 0

exit


router ospf 3

interface loopback 80

ip ospf 3 area 0

exit


router ospf 3

interface loopback 96

ip ospf 3 area 0

exit


router ospf 3

interface loopback 112

ip ospf 3 area 0

exit


router ospf 3

router-id 13.1.1.1

exit


router ospf 3

passive-interface default

no passive-interface f0/1


redistribute connected subnets
```

```
```

ISP

```
hostname ISP

interface loopback 0
ip address 111.112.113.1 255.255.255.255
exit

interface f0/0
ip address 192.168.1.1 255.255.255.252
no shutdown
exit

ip route 0.0.0.0 0.0.0.0 192.168.1.2
```

SW2_3560

```
hostname SW2_3560

vlan 8
name VerHa
exit
```

```
vlan 16

name WLAN

exit


vlan 24

name Myy

exit


vlan 48

name Osto

exit


interface range f0/21-22

channel-group 1 mode active

exit

interface port-channel 1

switchport trunk encapsulation dot1q

switchport mode trunk

switchport trunk allowed vlan 1,8,16,24,48

switchport trunk native vlan 8

exit


interface range f0/23-24

channel-group 2 mode active

exit

interface port-channel 2

switchport trunk encapsulation dot1q

switchport mode trunk

switchport trunk allowed vlan 1,8,16,24,48

switchport trunk native vlan 8
```

```
exit

interface f0/1
switchport mode access
switchport access vlan 1
switchport nonegotiate
exit

interface range f0/2-3
switchport mode access
switchport access vlan 8
switchport nonegotiate
exit

interface range f0/4-8
switchport mode access
switchport access vlan 16
switchport nonegotiate
exit

interface range f0/9-14
switchport mode access
switchport access vlan 24
switchport nonegotiate
exit

interface range f0/15-20
switchport mode access
switchport access vlan 48
switchport nonegotiate
exit
```

```
interface vlan 8

ip address 172.21.8.21 255.255.254.0

exit


ip default-gateway 172.21.8.1


```


SW3_2960


```

hostname SW3_2960


vlan 8

name VerHa

exit


vlan 16

name WLAN

exit


vlan 24

name Myy

exit


vlan 48

name Osto

exit
```

```
interface range f0/23-24
channel-group 2 mode active
exit
interface port-channel 2
switchport mode trunk
switchport trunk allowed vlan 1,8,16,24,48
switchport trunk native vlan 8
exit

interface range f0/21-22
switchport mode access
switchport access vlan 1
switchport nonegotiate
exit

interface f0/1
switchport mode access
switchport access vlan 1
switchport nonegotiate
exit

interface range f0/2-3
switchport mode access
switchport access vlan 8
switchport nonegotiate
exit

interface range f0/4-8
switchport mode access
switchport access vlan 16
switchport nonegotiate
```

```
exit

interface range f0/9-14
switchport mode access
switchport access vlan 24
switchport nonegotiate
exit

interface range f0/15-20
switchport mode access
switchport access vlan 48
switchport nonegotiate
exit

interface vlan 8
ip address 172.21.8.22 255.255.254.0
exit

ip default-gateway 172.21.8.1

```

PC

```
PC1

default gateway: 172.21.8.1

172.21.8.51 255.255.254.0
```

PC2

default gateway: 172.21.8.1

172.21.8.52 255.255.254.0

PC3

default gateway: 172.21.8.1

172.21.8.53 255.255.254.0

```