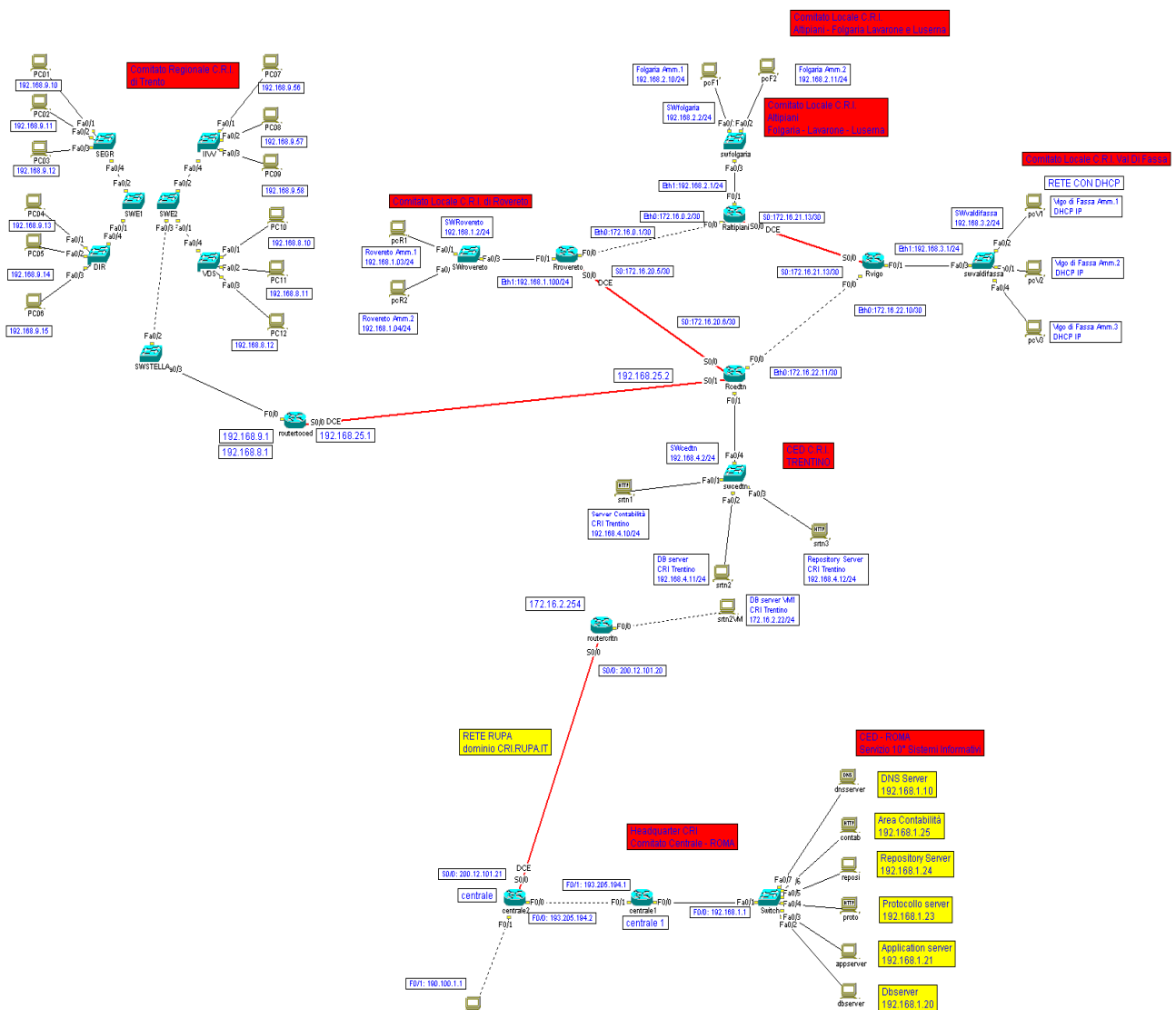
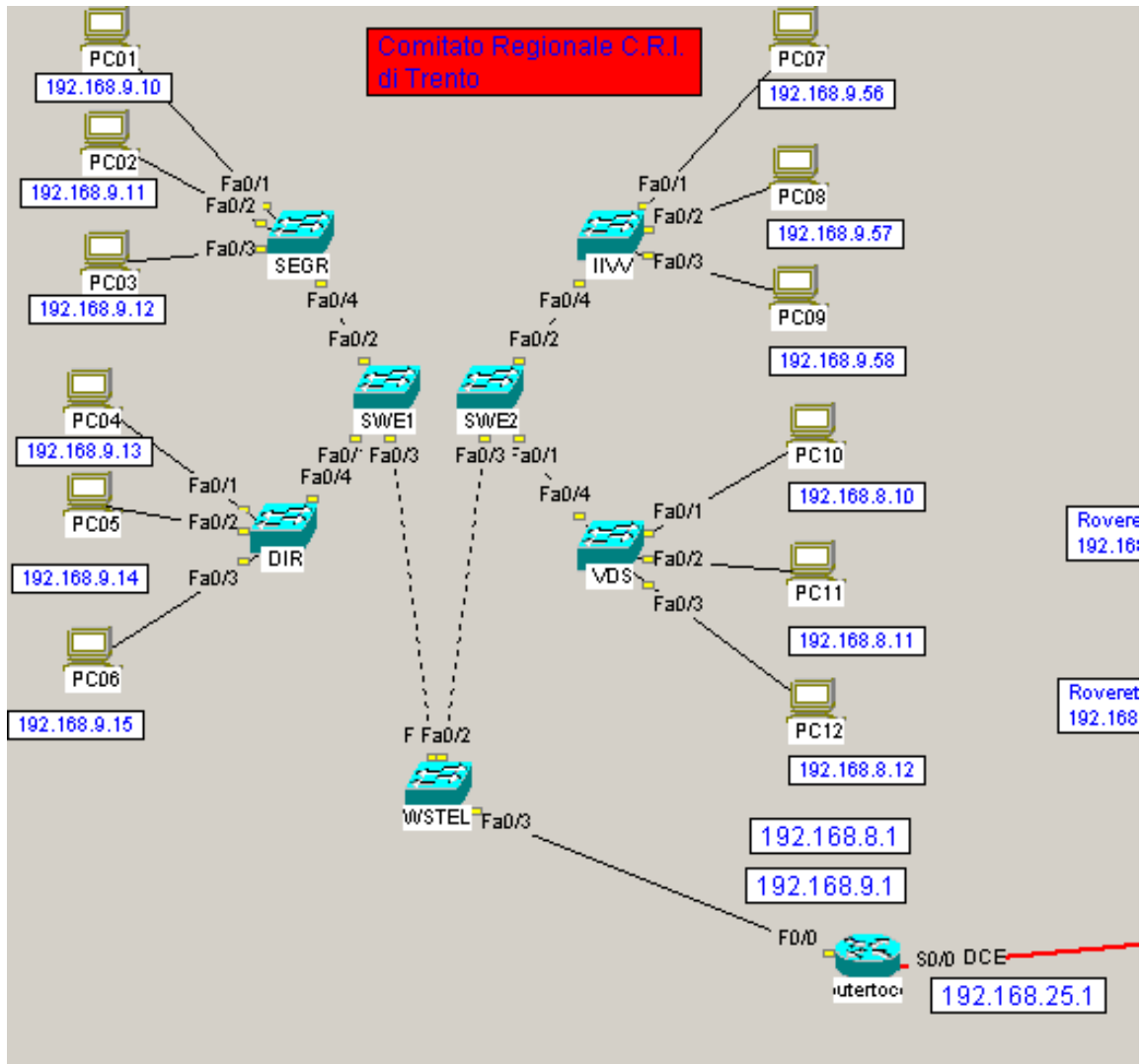


ESERCIZIO DI RIEPILOGO 1

Progetto Rete Croce Rossa Italiana – Sedi Trentino

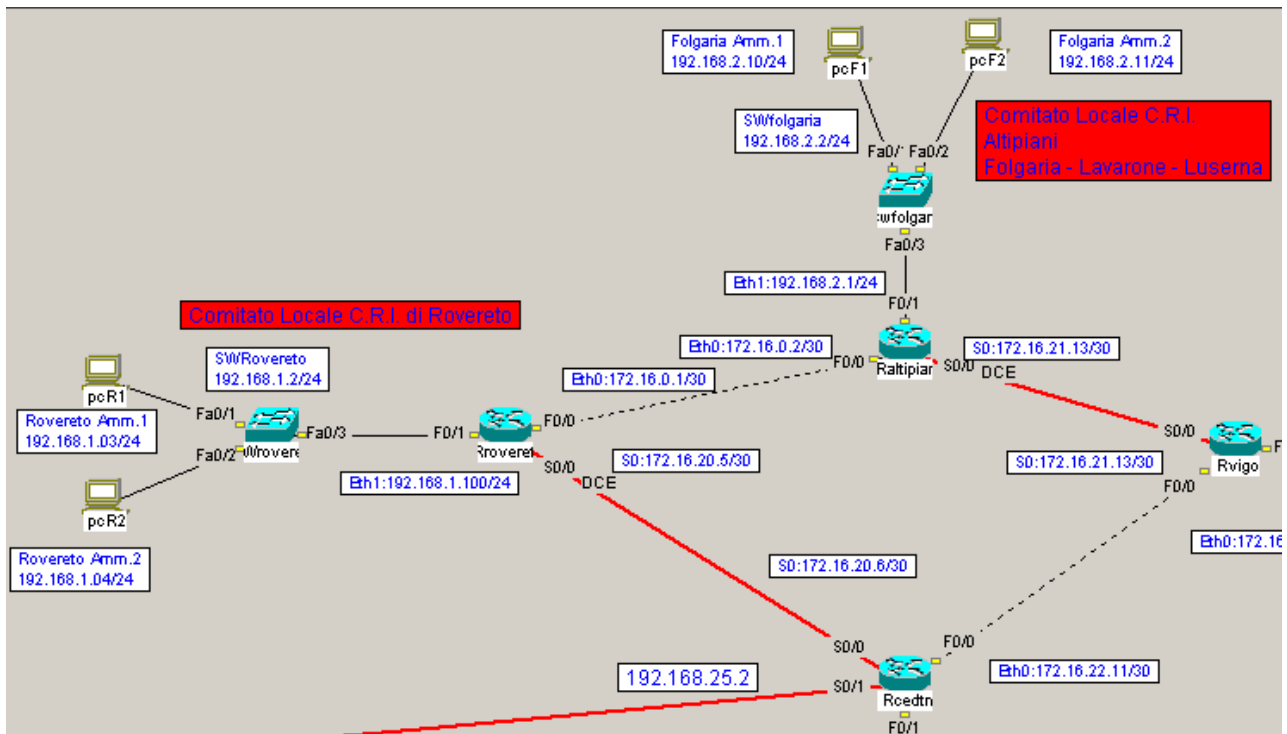


Vediamo in dettaglio la zona in alto a sinistra:

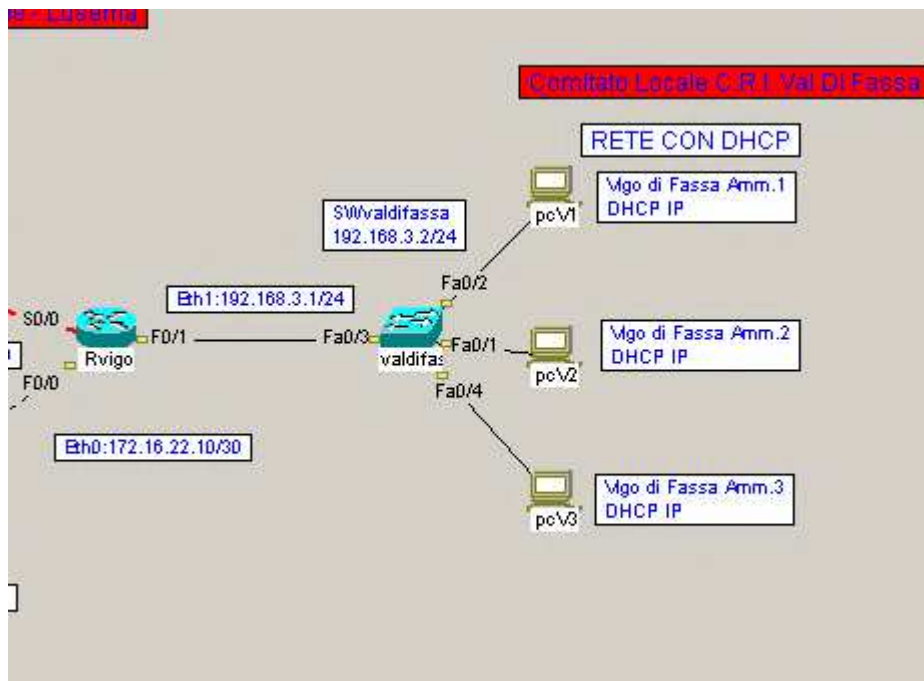


Sullo switch VDS abbiamo una VLAN per i Volontari a cui i tre i PC 10,11,12, mentre i rimanenti sono sulla VLAN di default

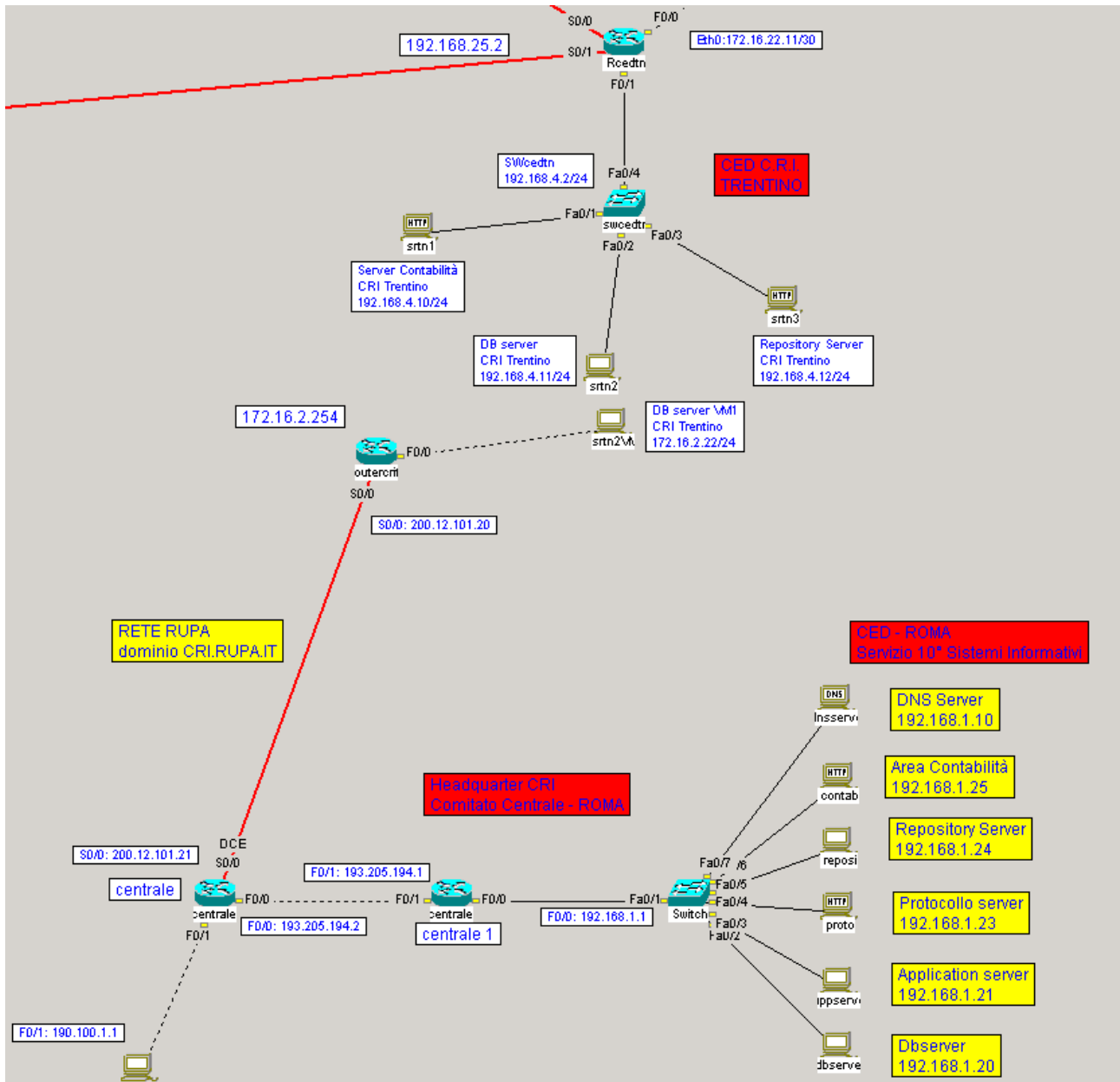
Vediamo in dettaglio la zona in alto in centro:



Vediamo in dettaglio la zona in alto a destra:



Vediamo in dettaglio la zona in basso



Sul router “centrale1” viene impostata una NAT dinamica con pool di indirizzi compresi tra 193.205.194.10 e 193.205.194.20 netmask 255.255.255.0

La rete del comitato centrale ROMA è separata fisicamente dalla rete del CED Trentino, l’unico punto di contatto è il DB Server (172.16.2.22) che viene copiato (mirror) ogni notte sul DB Server (192.168.4.1)

LISTA IP

ROUTERS :

```

"centrale1"  S0/0  IP = -
              S0/1  IP = -
              S0/2  IP = -
              F0/0  IP = 192.168.001.001 Mask = 255.255.255.000
              F0/1  IP = 193.205.194.001 Mask = 255.255.255.000
"centrale2"  S0/0  IP = 200.012.101.021 Mask = 255.255.255.000
              S0/1  IP = -
              S0/2  IP = -
              F0/0  IP = 193.205.194.002 Mask = 255.255.255.000
              F0/1  IP = 190.100.001.001 Mask = 255.255.255.000
"Raltipiani" S0/0  IP = 172.016.021.014 Mask = 255.255.255.000
              S0/1  IP = -
              S0/2  IP = -
              F0/0  IP = 172.016.000.002 Mask = 255.255.255.000
              F0/1  IP = 192.168.002.001 Mask = 255.255.255.000
"Rcedtn"     S0/0  IP = 172.016.020.006 Mask = 255.255.255.000
              S0/1  IP = 192.168.025.002 Mask = 255.255.255.000
              S0/2  IP = -
              F0/0  IP = 172.016.022.011 Mask = 255.255.255.000
              F0/1  IP = 192.168.004.001 Mask = 255.255.255.000
"routertoced" S0/0  IP = 192.168.025.001 Mask = 255.255.255.000
              S0/1  IP = -
              S0/2  IP = -
              F0/0  IP = -
              F0/0.1 IP = 192.168.008.001 Mask = 255.255.255.000
              F0/0.2 IP = 192.168.009.001 Mask = 255.255.255.000
              F0/1  IP = 192.168.004.010 Mask = 255.255.255.000
"routercritn" S0/0  IP = 200.012.101.020 Mask = 255.255.255.000
              S0/1  IP = -
              S0/2  IP = -
              F0/0  IP = 172.016.002.254 Mask = 255.255.255.000
              F0/1  IP = -
"Rrovereto"  S0/0  IP = 172.016.020.005 Mask = 255.255.255.000
              S0/1  IP = -
              S0/2  IP = -
              F0/0  IP = 172.016.000.001 Mask = 255.255.255.000
              F0/1  IP = 192.168.001.100 Mask = 255.255.255.000
"Rvigo"      S0/0  IP = 172.016.021.013 Mask = 255.255.255.000
              S0/1  IP = -
              S0/2  IP = -
              F0/0  IP = 172.016.022.010 Mask = 255.255.255.000
              F0/1  IP = 192.168.003.001 Mask = 255.255.255.000
    
```

PC's :

"srtm2VM"	IP = 172.016.002.022	Mask = 255.255.255.000	GWay =
172.016.002.254			
" "	IP = 190.100.001.010	Mask = 255.255.255.000	GWay =
190.100.001.001			
"pcR1"	IP = 192.168.001.003	Mask = 255.255.255.000	GWay =
192.168.001.100			
"pcR2"	IP = 192.168.001.004	Mask = 255.255.255.000	GWay =
192.168.001.100			
"dnsserver"	IP = 192.168.001.010	Mask = 255.255.255.000	GWay =
192.168.001.001			
"dbserver"	IP = 192.168.001.020	Mask = 255.255.255.000	GWay =
192.168.001.001			
"appserver"	IP = 192.168.001.021	Mask = 255.255.255.000	GWay =
192.168.001.001			
"proto"	IP = 192.168.001.023	Mask = 255.255.255.000	GWay =
192.168.001.001			
"reposit"	IP = 192.168.001.024	Mask = 255.255.255.000	GWay =
192.168.001.001			
"contab"	IP = 192.168.001.025	Mask = 255.255.255.000	GWay =
192.168.001.001			
"pcF1"	IP = 192.168.002.010	Mask = 255.255.255.000	GWay =
192.168.002.001			
"pcF2"	IP = 192.168.002.011	Mask = 255.255.255.000	GWay =
192.168.002.001			
"pcV1"	IP = 192.168.003.051	Mask = 255.255.255.000	GWay =
192.168.003.001	dhcp		
"pcV2"	IP = 192.168.003.052	Mask = 255.255.255.000	GWay =
192.168.003.001	dhcp		
"pcV3"	IP = 192.168.003.053	Mask = 255.255.255.000	GWay =
192.168.003.001	dhcp		
"srtm1"	IP = 192.168.004.010	Mask = 255.255.255.000	GWay =
192.168.004.001			
"srtm2"	IP = 192.168.004.011	Mask = 255.255.255.000	GWay =
192.168.004.001			
"srtm3"	IP = 192.168.004.012	Mask = 255.255.255.000	GWay =
192.168.004.001			
"PC10"	IP = 192.168.008.010	Mask = 255.255.255.000	GWay =
192.168.008.001			
"PC11"	IP = 192.168.008.011	Mask = 255.255.255.000	GWay =
192.168.008.001			
"PC12"	IP = 192.168.008.012	Mask = 255.255.255.000	GWay =
192.168.008.001			
"PC01"	IP = 192.168.009.010	Mask = 255.255.255.000	GWay =
000.000.000.000			
"PC02"	IP = 192.168.009.011	Mask = 255.255.255.000	GWay =
192.168.009.001			
"PC03"	IP = 192.168.009.012	Mask = 255.255.255.000	GWay =
000.000.000.000			
"PC04"	IP = 192.168.009.013	Mask = 255.255.255.000	GWay =
192.168.009.001			
"PC05"	IP = 192.168.009.014	Mask = 255.255.255.000	GWay =
192.168.009.001			
"PC06"	IP = 192.168.009.015	Mask = 255.255.255.000	GWay =
192.168.009.001			
"PC07"	IP = 192.168.009.056	Mask = 255.255.255.000	GWay =
000.000.000.000			
"PC08"	IP = 192.168.009.057	Mask = 255.255.255.000	GWay =
000.000.000.000			

"PC09" IP = 192.168.009.058 Mask = 255.255.255.000 GWay =
192.168.009.001

VLAN 's :

```
"SWSTELLA"    vlan1  IP = 192.168.009.101 Mask = 255.255.255.000
               no ip  default-gateway
"SWE1"        vlan1  IP = 192.168.009.102 Mask = 255.255.255.000
               no ip  default-gateway
"SWE2"        vlan1  IP = 192.168.009.103 Mask = 255.255.255.000
               no ip  default-gateway
"DIR"         vlan1  IP = 192.168.009.104 Mask = 255.255.255.000
               no ip  default-gateway
"SEGR"        vlan1  IP = 192.168.009.105 Mask = 255.255.255.000
               no ip  default-gateway
"VDS"         vlan1  IP = 192.168.009.107 Mask = 255.255.255.000
               no ip  default-gateway
"IIVV"        vlan1  IP = 192.168.009.106 Mask = 255.255.255.000
               no ip  default-gateway
"Switch"      vlan1  IP = -
               no ip  default-gateway
"SWrovereto"  vlan1  IP = 192.168.001.002 Mask = 255.255.255.000
               no ip  default-gateway
"swfolgaria"  vlan1  IP = 192.168.002.002 Mask = 255.255.255.000
               no ip  default-gateway
"swvaldifassa" vlan1  IP = 192.168.003.002 Mask = 255.255.255.000
               no ip  default-gateway
"swcedtn"     vlan1  IP = 192.168.004.002 Mask = 255.255.255.000
               no ip  default-gateway
```

ACLS

Il router "Rcedtn" controlla gli accessi, da parte degli host delle reti dei comitati locali, alla rete 192.168.4.0 che contiene i vari server, comuni a tutte le reti. Le Acl da implementare sono le seguenti:

1. Si vuole consentire a tutti gli host delle reti dei comitati locali (Trento, Rovereto, Folgaria, Fassa etc) di raggiungere il server web 192.168.4.10, dove sono disponibili le procedure per la contabilità
2. Si vuole consentire ai soli host delle rete 192.168.9.0 di raggiungere il server web 192.168.4.12
3. Tutti gli altri accessi verso questi server sono bloccati
4. Gli host delle reti dei comitati locali sono accessibili da parte dei server della rete 192.168.4.0 solo con comando ping

Router "Rcedtn" ACL's:

```
access-list 110 permit tcp any host 192.168.4.10 eq www
```

```
access-list 110 permit icmp any any echo-reply
```

```
access-list 110 permit tcp 192.168.9.0 0.0.0.255 host 192.168.4.12 eq www
```

```
access-list 110 deny icmp any any
```

```
access-list 110 deny ip any any
```

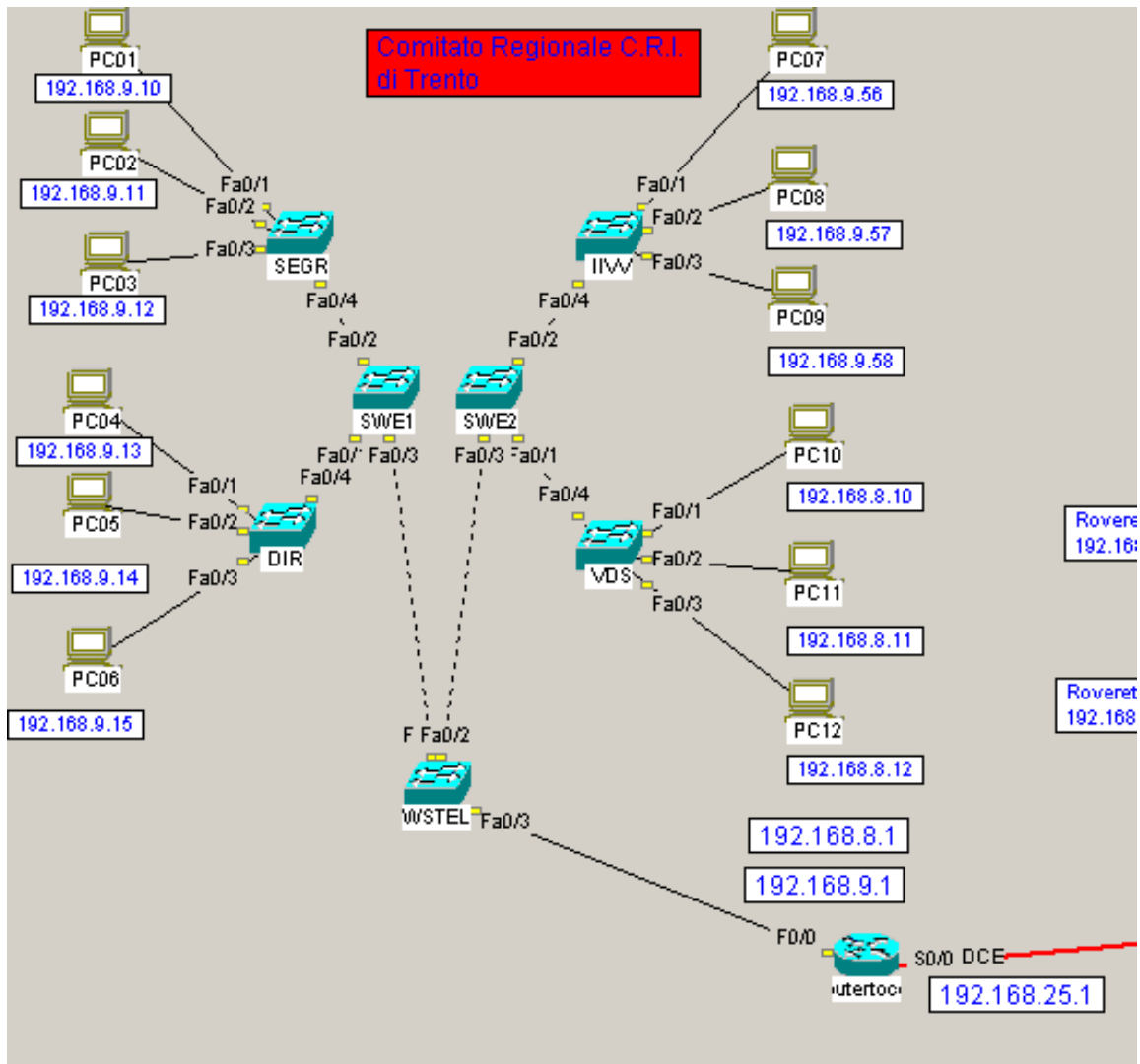
- ACL assigned to interface S0/0 IN

- ACL assigned to interface S0/1 IN

- ACL assigned to interface F0/0 IN

CONFIGURAZIONI APPARATI:

Zona in alto a sinistra:



SWITCH DIR

```

Current Configuration : 1142 bytes
!
version 12.1
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname DIR
!
spanning-tree mode pvst
no spanning-tree optimize bpdu transmission
spanning-tree extend system-id
!
!
    
```

```
!  
!  
interface FastEthernet0/1  
!  
interface FastEthernet0/2  
!  
interface FastEthernet0/3  
!  
interface FastEthernet0/4  
  switchport mode trunk  
!  
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  
!  
interface GigabitEthernet0/2  
!  
interface Vlan1  
  ip address 192.168.9.104 255.255.255.0  
  no ip route-cache  
!  
ip http server  
!  
line con 0
```

```
line vty 0 4
!  
end
```

SWITCH SEGR

```
Current Configuration : 1143 bytes  
!  
version 12.1  
no service pad  
service timestamps debug uptime  
service timestamps log uptime  
no service password-encryption  
!  
hostname SEGR  
!  
spanning-tree mode pvst  
no spanning-tree optimize bpdu transmission  
spanning-tree extend system-id  
!  
!  
!  
interface FastEthernet0/1  
!  
interface FastEthernet0/2  
!  
interface FastEthernet0/3  
!  
interface FastEthernet0/4  
  switchport mode trunk  
!  
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
!
interface GigabitEthernet0/2
!
interface Vlan1
  ip address 192.168.9.105 255.255.255.0
  no ip route-cache
!
ip http server
!
line con 0
line vty 0 4
!
end

```

SWITCH SWE1

```

Current Configuration : 1189 bytes
!
version 12.1
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname SWE1
!
spanning-tree mode pvst
no spanning-tree optimize bpdu transmission
spanning-tree extend system-id
!
!
!
!
interface FastEthernet0/1
  switchport mode trunk
!
interface FastEthernet0/2
  switchport mode trunk
!
interface FastEthernet0/3
  switchport mode trunk
!
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  
!  
interface GigabitEthernet0/2  
!  
interface Vlan1  
  ip address 192.168.9.102 255.255.255.0  
  no ip route-cache  
!  
ip http server  
!  
line con 0  
line vty 0 4  
!  
End
```

SWITCH SWE2

```
Current Configuration : 1189 bytes
!
version 12.1
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname SWE2
!
spanning-tree mode pvst
no spanning-tree optimize bpdu transmission
spanning-tree extend system-id
!
!
!
!
interface FastEthernet0/1
  switchport mode trunk
!
interface FastEthernet0/2
  switchport mode trunk
!
interface FastEthernet0/3
  switchport mode trunk
!
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
!
interface GigabitEthernet0/2
!
interface Vlan1
  ip address 192.168.9.103 255.255.255.0
  no ip route-cache
!
ip http server
!
line con 0
line vty 0 4
!
end

```

SWITCH IIVV

```

Current Configuration : 1143 bytes
!
version 12.1
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname IIVV
!
spanning-tree mode pvst
no spanning-tree optimize bpdu transmission
spanning-tree extend system-id
!
!
!
!
interface FastEthernet0/1
!
interface FastEthernet0/2
!
interface FastEthernet0/3
!
interface FastEthernet0/4
  switchport mode trunk
!
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  
!  
interface GigabitEthernet0/2  
!  
interface Vlan1  
  ip address 192.168.9.106 255.255.255.0  
  no ip route-cache  
!  
ip http server  
!  
line con 0  
line vty 0 4  
!  
end
```

SWITCH VDS

```
Current Configuration : 1223 bytes  
!  
version 12.1  
no service pad  
service timestamps debug uptime  
service timestamps log uptime  
no service password-encryption  
!  
hostname VDS
```



```
!  
spanning-tree mode pvst  
no spanning-tree optimize bpdu transmission  
spanning-tree extend system-id  
!  
!  
!  
!  
interface FastEthernet0/1  
  switchport access vlan 10  
!  
interface FastEthernet0/2  
  switchport access vlan 10  
!  
interface FastEthernet0/3  
  switchport access vlan 10  
!  
interface FastEthernet0/4  
  switchport mode trunk  
!  
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  
!
```

```
interface GigabitEthernet0/2
!
interface Vlan1
 ip address 192.168.9.107 255.255.255.0
 no ip route-cache
!
ip http server
!
line con 0
line vty 0 4
!
End
```

SWITCH SWSTELLA

```
Current Configuration : 1193 bytes
!
version 12.1
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname SWSTELLA
!
spanning-tree mode pvst
no spanning-tree optimize bpdu transmission
spanning-tree extend system-id
!
!
!
!
interface FastEthernet0/1
 switchport mode trunk
!
interface FastEthernet0/2
 switchport mode trunk
!
interface FastEthernet0/3
 switchport mode trunk
!
interface FastEthernet0/4
!
interface FastEthernet0/5
!
interface FastEthernet0/6
!
interface FastEthernet0/7
!
interface FastEthernet0/8
!
interface FastEthernet0/9
!
interface FastEthernet0/10
!
interface FastEthernet0/11
!
```

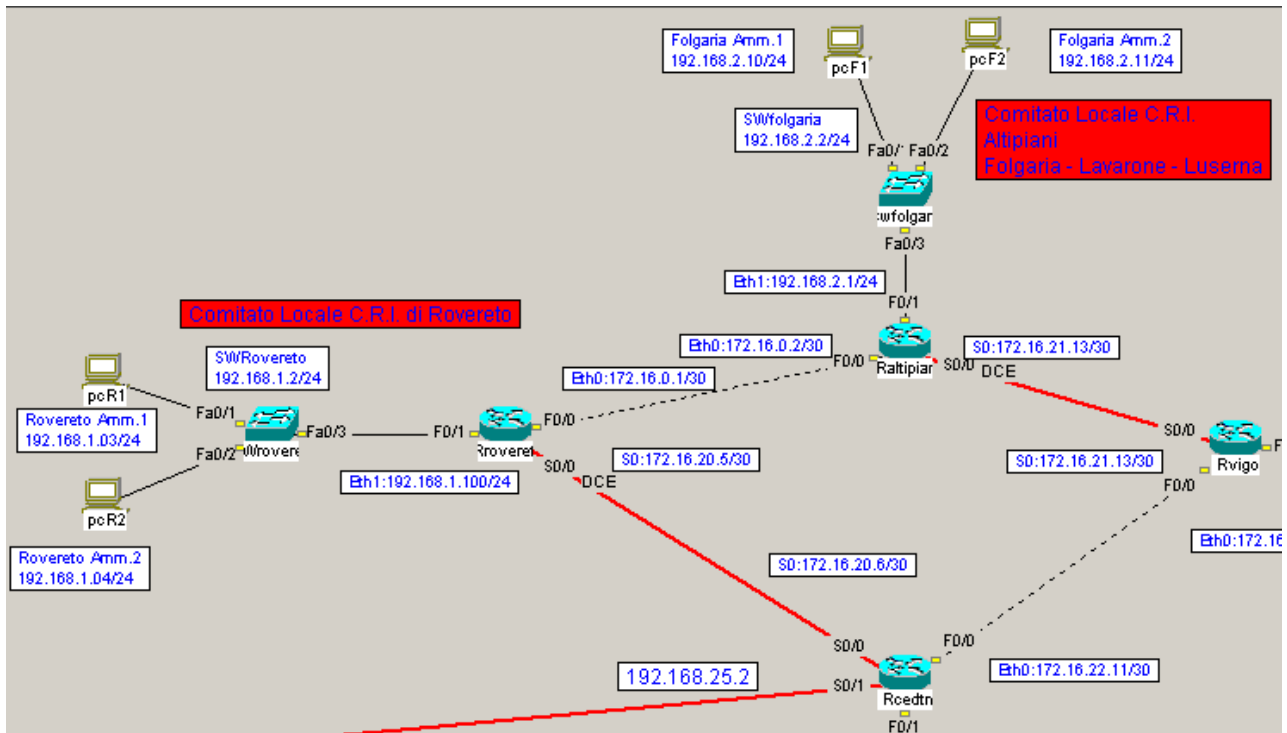
```
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
!
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
interface Vlan1
 ip address 192.168.9.101 255.255.255.0
 no ip route-cache
!
ip http server
!
line con 0
line vty 0 4
!
End
```

ROUTER routertoced

```
Current Configuration : 970
!
version 12.2
no service password-encryption
no service udp-small-servers
no service tcp-small-servers
!
hostname routertoced
!
!
!
interface FastEthernet0/0
```

```
no ip address
no ip directed-broadcast
!
interface FastEthernet0/0.1
 encapsulation dot1q 10
 ip address 192.168.8.1 255.255.255.0
 no ip directed-broadcast
!
interface FastEthernet0/0.2
 encapsulation dot1q 1
 ip address 192.168.9.1 255.255.255.0
 no ip directed-broadcast
!
!
interface FastEthernet0/1
 ip address 192.168.4.10 255.255.255.0
 no ip directed-broadcast
!
!
interface Serial0/0
 ip address 192.168.25.1 255.255.255.0
 no ip directed-broadcast
 clockrate 64000
!
interface Serial0/1
 no ip address
 no ip directed-broadcast
 shutdown
!
interface Serial0/2
 no ip address
 no ip directed-broadcast
 shutdown
!
router RIP
 network 192.168.9.0
 network 192.168.25.0
 network 192.168.8.0
!
no ip classless
ip route 192.168.4.0 255.255.255.0 192.168.25.2
!
line con 0
line aux 0
line vty 0 4
!
End
```

Zona in alto in centro:



ROUTER Rcedtn

```

Current Configuration : 1500
!
version 12.2
no service password-encryption
no service udp-small-servers
no service tcp-small-servers
!
hostname Rcedtn
!
!
!
interface FastEthernet0/0
 ip address 172.16.22.11 255.255.255.0
 no ip directed-broadcast
 ip access-group 110 in
!
!
interface FastEthernet0/1
 ip address 192.168.4.1 255.255.255.0
 no ip directed-broadcast
!
!
interface Serial0/0
 ip address 172.16.20.6 255.255.255.0
 no ip directed-broadcast
    
```

```
ip access-group 110 in
!
interface Serial0/1
ip address 192.168.25.2 255.255.255.0
no ip directed-broadcast
ip access-group 110 in
!
interface Serial0/2
no ip address
no ip directed-broadcast
shutdown
!
router RIP
network 172.16.0.0
network 192.168.4.0
network 192.168.25.0
!
no ip classless
ip route 192.168.9.0 255.255.255.0 162.168.25.1
!
access-list 110 permit tcp any host 192.168.4.10 eq www
access-list 110 permit icmp any any echo-reply
access-list 110 permit tcp 192.168.9.0 0.0.0.255 host 192.168.4.12 eq www
access-list 110 deny icmp any any
access-list 110 deny ip any any
!
!
line con 0
line aux 0
line vty 0 4
!
end
```

SWITCH SWrovereto

```
Current Configuration : 1135 bytes
!
version 12.1
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname SWrovereto
!
spanning-tree mode pvst
no spanning-tree optimize bpdu transmission
spanning-tree extend system-id
!
!
!
!
interface FastEthernet0/1
!
interface FastEthernet0/2
!
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
!
interface GigabitEthernet0/2
!
interface Vlan1
 ip address 192.168.1.2 255.255.255.0
 no ip route-cache
 shutdown
!
ip http server
!
line con 0
line vty 0 4
!
End
```

ROUTER Rovereto

```
Current Configuration : 1118
!
version 12.2
no service password-encryption
no service udp-small-servers
no service tcp-small-servers
!
hostname Rovereto
!
!
!
interface FastEthernet0/0
 ip address 172.16.0.1 255.255.255.0
 no ip directed-broadcast
!
!
interface FastEthernet0/1
 ip address 192.168.1.100 255.255.255.0
 no ip directed-broadcast
!
!
interface Serial0/0
 ip address 172.16.20.5 255.255.255.0
 no ip directed-broadcast
 clockrate 64000
!
interface Serial0/1
 no ip address
 no ip directed-broadcast
 shutdown
!
interface Serial0/2
 no ip address
 no ip directed-broadcast
 shutdown
!
router RIP
 network 192.168.1.0
 network 172.16.0.0
!
no ip classless
!
line con 0
line aux 0
line vty 0 4
!
end
```


ROUTER Raltipiani

```
Current Configuration : 1090
!
version 12.2
no service password-encryption
no service udp-small-servers
no service tcp-small-servers
!
hostname Raltipiani
!
!
interface FastEthernet0/0
 ip address 172.16.0.2 255.255.255.0
 no ip directed-broadcast
!
!
interface FastEthernet0/1
 ip address 192.168.2.1 255.255.255.0
 no ip directed-broadcast
!
!
interface Serial0/0
 ip address 172.16.21.14 255.255.255.0
 no ip directed-broadcast
 clockrate 64000
!
interface Serial0/1
 no ip address
 no ip directed-broadcast
 shutdown
!
interface Serial0/2
 no ip address
 no ip directed-broadcast
 shutdown
!
router RIP
 network 172.16.0.0
 network 192.168.2.0
!
no ip classless
!
line con 0
line aux 0
line vty 0 4
!
End
```

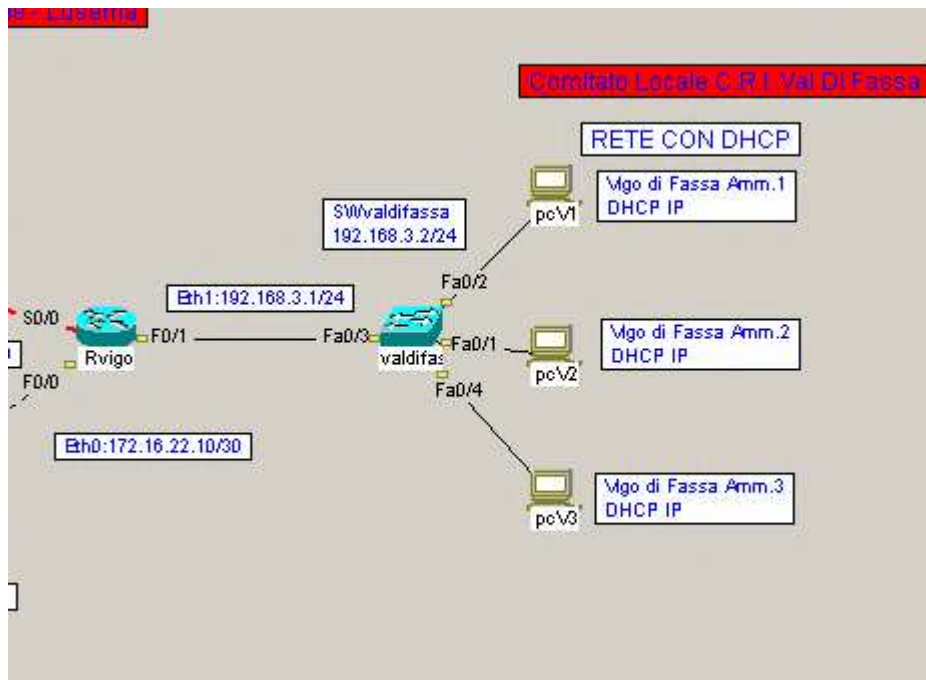
SWITCH swfolgaria

```
Current Configuration : 1135 bytes
!
version 12.1
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname swfolgaria
!
spanning-tree mode pvst
no spanning-tree optimize bpdu transmission
spanning-tree extend system-id
!
!
!
!
interface FastEthernet0/1
!
interface FastEthernet0/2
!
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
!
interface GigabitEthernet0/2
!
interface Vlan1
 ip address 192.168.2.2 255.255.255.0
 no ip route-cache
 shutdown
!
ip http server
!
line con 0
line vty 0 4
!
End
    
```

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ROUTER Rvigo

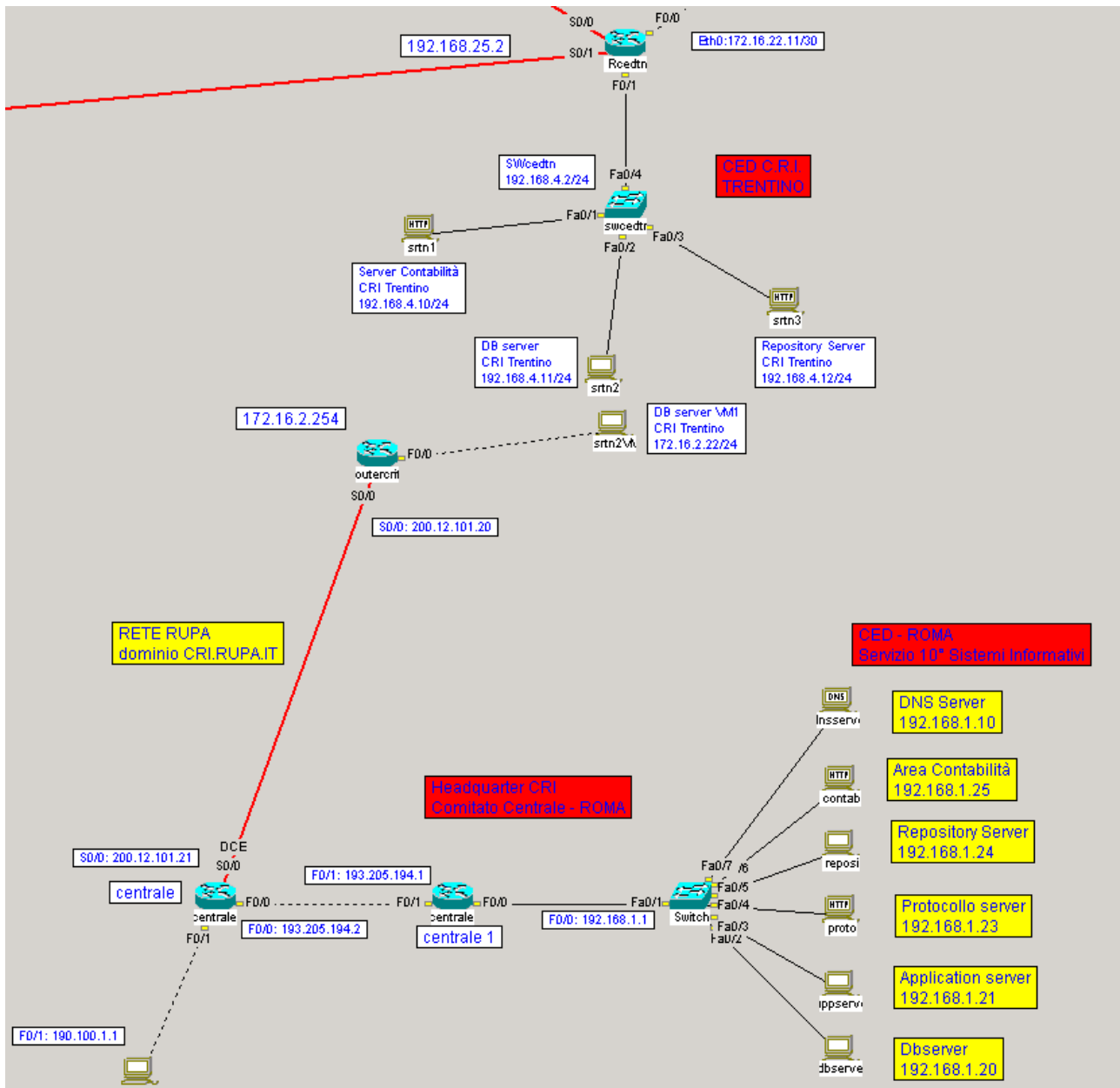
```
Current Configuration : 1267
!
version 12.2
no service password-encryption
no service udp-small-servers
no service tcp-small-servers
!
hostname Rvigo
!
!
ip dhcp excluded-address 192.168.3.1 192.168.3.50
!
ip dhcp pool vigo
    network 192.168.3.0 255.255.255.0
    default-router 192.168.3.1
    domain-name retevigo
    lease 7
!
!
interface FastEthernet0/0
    ip address 172.16.22.10 255.255.255.0
    no ip directed-broadcast
!
!
interface FastEthernet0/1
    ip address 192.168.3.1 255.255.255.0
    no ip directed-broadcast
!
!
interface Serial0/0
    ip address 172.16.21.13 255.255.255.0
    no ip directed-broadcast
!
interface Serial0/1
    no ip address
    no ip directed-broadcast
    shutdown
!
interface Serial0/2
    no ip address
    no ip directed-broadcast
    shutdown
!
router RIP
    network 192.168.3.0
    network 172.16.0.0
!
no ip classless
!
line con 0
line aux 0
line vty 0 4
!
End
```

SWITCH swvaldifassa

```
Current Configuration : 1137 bytes
!
version 12.1
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname swvaldifassa
!
spanning-tree mode pvst
no spanning-tree optimize bpdu transmission
spanning-tree extend system-id
!
!
!
!
interface FastEthernet0/1
!
interface FastEthernet0/2
!
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  
!  
interface GigabitEthernet0/2  
!  
interface Vlan1  
  ip address 192.168.3.2 255.255.255.0  
  no ip route-cache  
  shutdown  
!  
ip http server  
!  
line con 0  
line vty 0 4  
!  
End
```

Zona in basso



SWITCH swcedtn

```
Current Configuration : 1132 bytes
!
version 12.1
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname swcedtn
!
spanning-tree mode pvst
no spanning-tree optimize bpdu transmission
spanning-tree extend system-id
!
!
!
!
interface FastEthernet0/1
!
interface FastEthernet0/2
!
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  
!  
interface GigabitEthernet0/2  
!  
interface Vlan1  
  ip address 192.168.4.2 255.255.255.0  
  no ip route-cache  
  shutdown  
!  
ip http server  
!  
line con 0  
line vty 0 4  
!  
End
```

ROUTER routercritn

```
Current Configuration : 653  
!  
version 12.2  
no service password-encryption  
no service udp-small-servers  
no service tcp-small-servers  
!  
hostname routercritn  
!  
!  
!  
!  
interface FastEthernet0/0  
  ip address 172.16.2.254 255.255.255.0  
  no ip directed-broadcast  
!  
!  
interface FastEthernet0/1  
  no ip address  
  no ip directed-broadcast  
  shutdown  
!  
!  
interface Serial0/0  
  ip address 200.12.101.20 255.255.255.0  
  no ip directed-broadcast  
!  
interface Serial0/1  
  no ip address  
  no ip directed-broadcast  
  shutdown  
!  
interface Serial0/2
```

```
no ip address
no ip directed-broadcast
shutdown
!
no ip classless
ip route 192.168.1.0 255.255.255.0 200.12.101.21
!
line con 0
line aux 0
line vty 0 4
!
End
```

ROUTER centrale2

```
Current Configuration : 760
!
version 12.2
no service password-encryption
no service udp-small-servers
no service tcp-small-servers
!
hostname centrale2
!
!
!
!
interface FastEthernet0/0
 ip address 193.205.194.2 255.255.255.0
 no ip directed-broadcast
!
!
interface FastEthernet0/1
 ip address 190.100.1.1 255.255.255.0
 no ip directed-broadcast
!
!
interface Serial0/0
 ip address 200.12.101.21 255.255.255.0
 no ip directed-broadcast
 clockrate 64000
!
interface Serial0/1
 no ip address
 no ip directed-broadcast
 shutdown
!
interface Serial0/2
 no ip address
 no ip directed-broadcast
 shutdown
!
router RIP
 network 193.205.194.0
 network 190.100.0.0
 network 200.12.101.0
!
no ip classless
```

```
ip route 172.16.2.0 255.255.255.0 200.12.101.20
!
line con 0
line aux 0
line vty 0 4
!
End
```

ROUTER centrale

```
Current Configuration : 850
!
version 12.2
no service password-encryption
no service udp-small-servers
no service tcp-small-servers
!
hostname centrale1
!
!
!
!
interface FastEthernet0/0
 ip address 192.168.1.1 255.255.255.0
 no ip directed-broadcast
 ip nat inside
!
!
interface FastEthernet0/1
 ip address 193.205.194.1 255.255.255.0
 no ip directed-broadcast
 ip nat outside
!
!
interface Serial0/0
 no ip address
 no ip directed-broadcast
 shutdown
!
interface Serial0/1
 no ip address
 no ip directed-broadcast
 shutdown
!
interface Serial0/2
 no ip address
 no ip directed-broadcast
 shutdown
!
router RIP
 network 193.205.194.0
 network 192.168.1.0
!
ip nat pool centrale 193.205.194.10 193.205.194.20 netmask 255.255.255.0
ip nat inside source list 1 pool centrale
!
no ip classless
!
access-list 1 permit 192.168.1.0 0.0.0.255
```

```
!  
!  
line con 0  
line aux 0  
line vty 0 4  
!  
End
```

SWITCH Switch

Building Configuration...

Current Configuration : 1108 bytes

```
!  
version 12.1  
no service pad  
service timestamps debug uptime  
service timestamps log uptime  
no service password-encryption  
!  
hostname Switch  
!  
spanning-tree mode pvst  
no spanning-tree optimize bpdu transmission  
spanning-tree extend system-id  
!  
!  
!  
!  
interface FastEthernet0/1  
!  
interface FastEthernet0/2  
!  
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
!
interface GigabitEthernet0/2
!
interface Vlan1
  no ip address
  no ip route-cache
  shutdown
!
ip http server
!
line con 0
line vty 0 4
!
end
```