

INTER-VLAN ROUTING (ROUTER-ON STICK) WITH DHCP IN HUAWEI eNSP

Inter-Vlan Routing With DHCP in Huawei eNSP

Switches

CE6800

S5700 S3700

CE6800 CE12800

CE6800 Data center TOR switch

INSTRUCTIONS

1. Cable the topology
2. Perform basic device configurations and Assign ip address
3. Create vlan on a switch
4. Configure inter-vlan routing on a router (IEEE 802.1Q)
5. Configure GE 0/0/1 on a switch as trunk port to allow vlan 10, vlan 20

Vlan 10
name SALES
E0/0/1-2
192.168.10.0/24
GW 192.168.10.1

Vlan 20
name Security
E0/0/3-4
192.168.20.0/24
GW 192.168.20.1

PC1 192.168.10.10/24

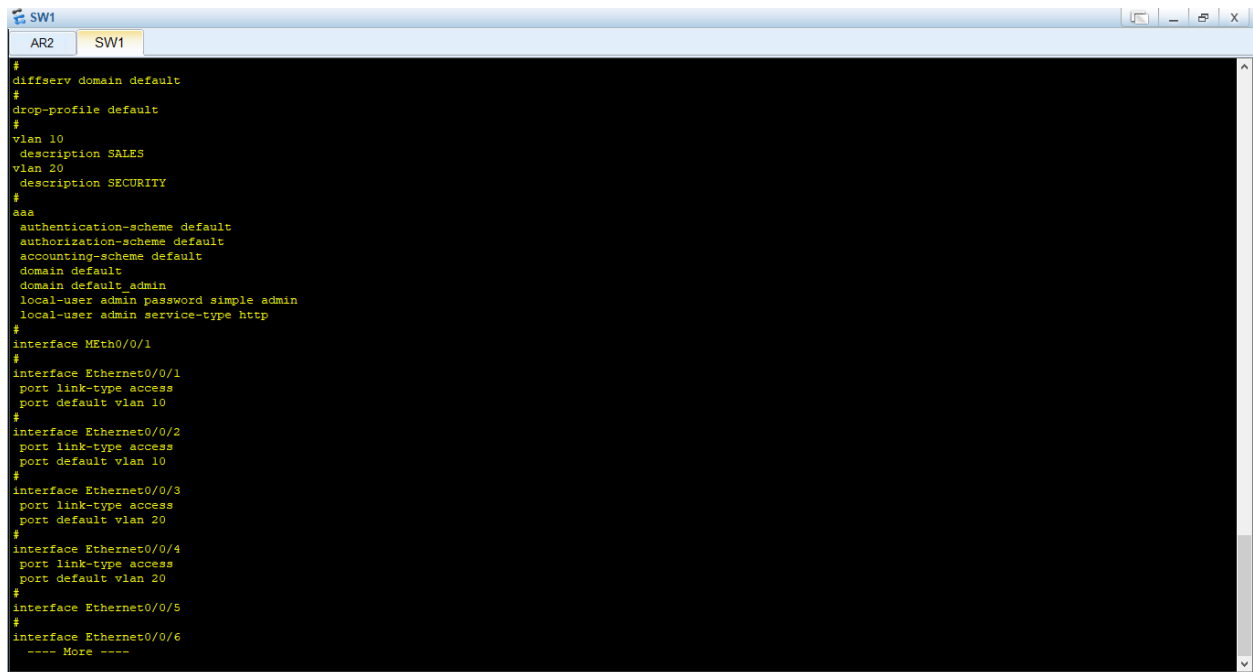
PC2 192.168.10.11/24

PC3 192.168.20.10/24

PC4 192.168.20.11

AR2

```
domain default_admin
local-user admin password cipher %$%$cy=Cin#C4C=&k)F-1UvEkv&*%$%$
local-user admin service-type http
#
firewall zone Local
priority 15
#
interface GigabitEthernet0/0/0
description CONNECTED TO VLAN 10 AND VLAN 20
#
interface GigabitEthernet0/0/0.10
description SECURITY DEPARTMENT
dot1q termination vid 10
ip address 192.168.10.1 255.255.255.0
arp broadcast enable
dhcp select global
#
interface GigabitEthernet0/0/0.20
dot1q termination vid 20
ip address 192.168.20.1 255.255.255.0
arp broadcast enable
dhcp select global
#
interface GigabitEthernet0/0/1
#
interface GigabitEthernet0/0/2
#
interface NULL0
#
user-interface con 0
authentication-mode password
user-interface vty 0 4
```



```
#
diffserv domain default
#
drop-profile default
#
vlan 10
  description SALES
vlan 20
  description SECURITY
#
aaa
  authentication-scheme default
  authorization-scheme default
  accounting-scheme default
  domain default
  domain default_admin
  local-user admin password simple admin
  local-user admin service-type http
#
interface MEth0/0/1
#
interface Ethernet0/0/1
  port link-type access
  port default vlan 10
#
interface Ethernet0/0/2
  port link-type access
  port default vlan 10
#
interface Ethernet0/0/3
  port link-type access
  port default vlan 20
#
interface Ethernet0/0/4
  port link-type access
  port default vlan 20
#
interface Ethernet0/0/5
#
interface Ethernet0/0/6
  ---- More ----
```

Password on switch:admin