# Live Configuration Using CISCO Device

Any Cisco router you have around you say Cisco 1000, 1600, 2500, 2600, And 3600 Series Routers. Any cisco router you have the below configurations will be able to workout. These configurations will help you connect your LAN onto internet, Provide basic security to your Local Area Network (LAN) so that no other network connects if not defined in the configs.

I will go straight to what I have around me to have this configuration done successfully.

1. **Router:** Cisco 3600 series.
2. **ISP Addresses:** [IP Address: DHCP SubMask: 255.255.255.0
        Gateway: 10.17.35.254]. DNS: 8.8.8.8
3. **LAN 1 Addresses:** [IP Address: 192.168.10.1 SubnetMask: 255.255.255.0]
4. **LAN 1 Addresses:** [IP Address: 192.168.20.1 SubnetMask: 255.255.255.0]
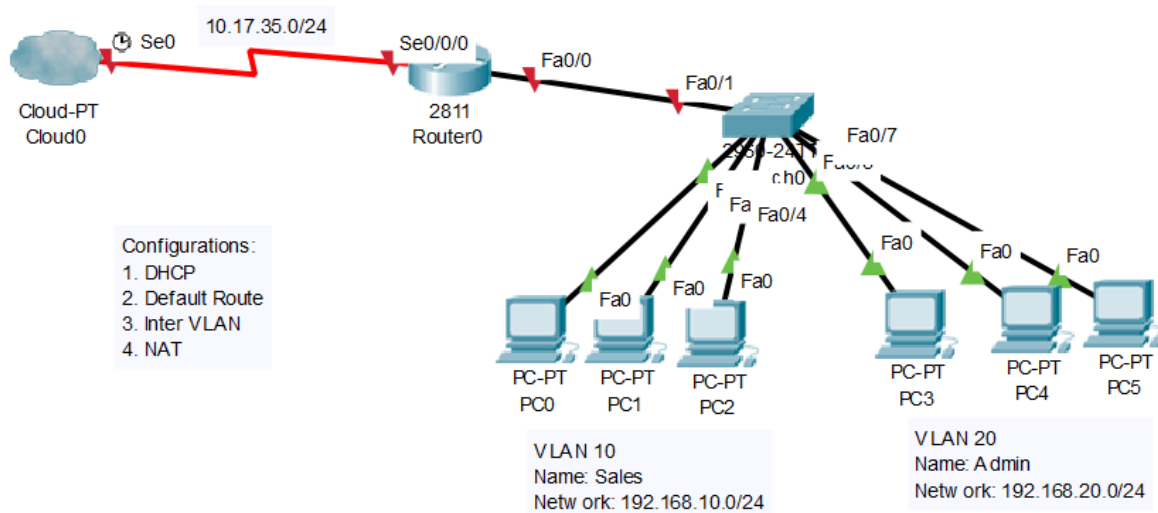
Step 1: Erase Previous Configurations:

Reset the switch to factory defaults:

   a. Erase the existing configuration: **write erase**
   b. Reload the switch software: **reload**

Step 2: Router Basic Configuration:

Router(config)# interface fastEthernet 0/0
Router(config-if)# ip address dhcp
Router(config-if)# no shutdown
Router(config-if)# ip nat outside
Router(config-if)# ip access-group 101 out

Router(config)# interface fastEthernet 0/1
Router(config-if)# no shutdown

Router(config)# interface fastEthernet 0/1.10
Router(config-subif)# encapsulation dot1Q 10
Router(config-subif)# ip address 192.168.10.1 255.255.255.0
Router(config-subif)# ip nat inside

Router(config)# interface fastEthernet 0/1.20
Router(config-subif)# encapsulation dot1Q 20
Router(config-subif)# ip address 192.168.20.1 255.255.255.0
Router(config-subif)# ip nat inside

Step 3: DHCP Server Configuration:

Router(config)# ip dhcp pool CCNA
Router(dhcp-config)# network 192.168.10.0   255.255.255.0
Router(dhcp-config)# default-router 192.168.10.1
Router(dhcp-config)# dns-server 8.8.8.8

Router(config)# ip dhcp pool LINUX
Router(dhcp-config)# network 192.168.20.0   255.255.255.0
Router(dhcp-config)# default-router 192.168.20.1
Router(dhcp-config)# dns-server 8.8.8.8

Step 4: Router DNS Configuration to Connect Internet

Router(config)# ip name-server 8.8.8.8

Step 5: Default Route:

Router(config)# ip route 0.0.0.0   0.0.0.0   10.17.33.254

Step 6: ACL Configuration:

Router(config)# access-list 101 deny tcp 192.168.10.0 0.0.0.255 (Dest IP & Wildmask) eq 443
Router(config)# access-list 101 deny tcp 192.168.10.0 0.0.0.255 (Dest IP & Wildmask) eq 80
Router(config)# access-list 101 permit ip any any

Step 7: PAT Configuration:
Router(config)# ip nat inside source list 101 interface fastEthernet 0/0   overload