Assign IP, Mask, Gateway to all end devices, PCs, Servers
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********Switch:

##Make Vlans
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vlan 10
name CSE
vlan 20
name ME
vlan 99
name manage

##Make access/truck ports
int f0/5
switchport mode access
switchport access vlan 10
----
int f0/6
switchport mode access
switchport access vlan 20
----

interface f0/1
switchport mode trunk
switchport trunk native vlan 99
switchport trunk allowed vlan 10,20,99

##Assign Vlan, IP to switch

int vlan 99
ip address 192.168.99.2 255.255.255.0
no shutdown
ip default-gateway 192.168.99.1

*******Routers

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R1

give ip to subinterface, if trunk port
```
int g0/0.10
encapsulation dot1q 10
ip address 192.168.10.1 255.255.255.0
int g0/0.20
encapsulation dot1q 20
ip address 192.168.20.1 255.255.255.0
end

int g0/0
no shutdown
```

Give ip to serial
```
int s0/0/0
ip address 11.0.0.2 255.255.255.252
clock rate 64000
no shutdown
```

Default serial:
```
ip route 0.0.0.0 0.0.0.0 S0/0/0
```

****R2

```
int s0/0/0
ip address 11.0.0.1 255.255.255.252
no shutdown
ip route 0.0.0.0 0.0.0.0 S0/0/0

int g0/0
ip address 192.168.50.1 255.255.255.0
no shutdown
```

***************NAT*********
CONFIG
R1

DNAT:
```
ip nat pool CSEpool1 209.165.200.8 209.165.200.11 netmask 255.255.255.224
access-list 1 permit 192.168.10.0   0.0.0.255
ip nat inside source list 1 pool CSEpool1
```

PNAT

```
ip nat pool MEpool1 209.165.200.12 209.165.200.12 netmask 255.255.255.224
access-list 2 permit 192.168.20.0   0.0.0.255
ip nat inside source list 2 pool MEpool1 overload


##ASSIGN SUB
int g0/0.10
ip nat inside
int g0/0.20
ip nat inside
int s0/0/0
ip nat outside




***************ACL:
access-list 101  permit tcp host  192.168.10.5  host 192.168.50.5 eq www
access-list 101  deny   tcp host  192.168.10.5  host 192.168.50.6 eq ftp

access-list 101  deny tcp host  192.168.20.5  host 192.168.50.5 eq www
access-list 101  permit tcp host  192.168.20.5  host 192.168.50.6 eq ftp
access-list 101  permit any any


int g0/0.10
ip access-group 101 in

int g0/0.20
ip access-group 101 in

Reset:
no access-list 101
#show
```