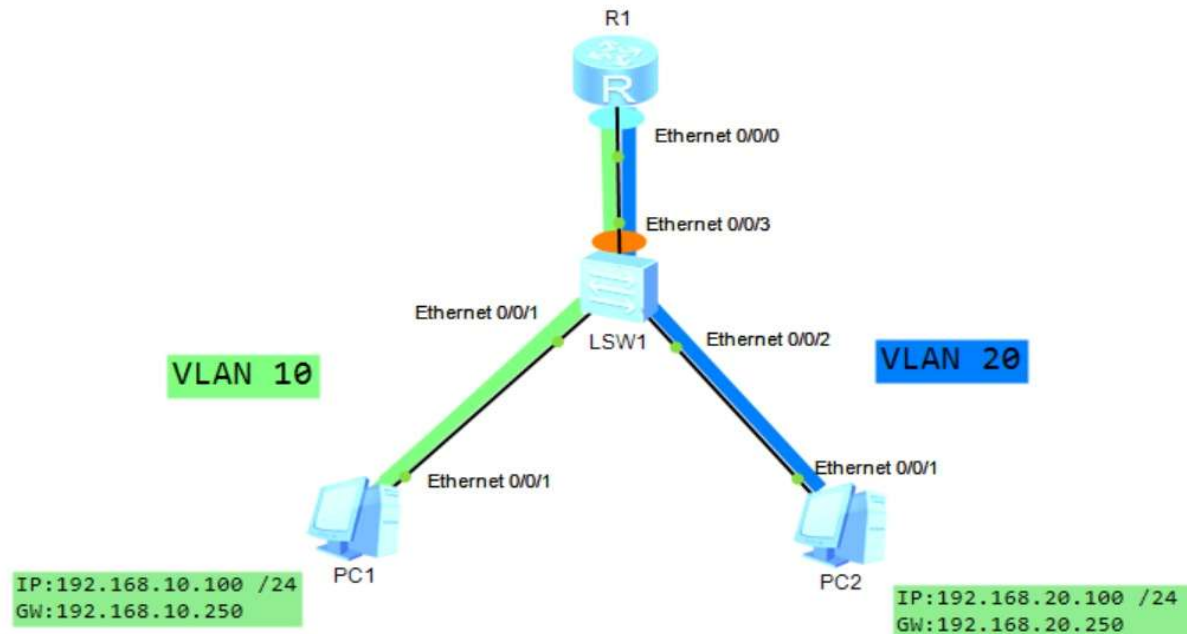


LAB-06

Configure the following router-on-a-stick in eNSP:

eNSP simulation:



First, we have to assign the Ip address and gateway to each PC then we have to configure these commands on switch and router.

Configuration on Switch (LSW1):

```
sysname LSW1
#
vlan batch 10 20
#
```

```
interface Ethernet0/0/1
 port link-type access
 port default vlan 10
#
```

```
interface Ethernet0/0/2
 port link-type access
 port default vlan 20
#
```

We have to make the link-type trunk of ethernet 0/0/3 for switch and router communication.

```
interface Ethernet0/0/3
port link-type trunk
undo port trunk allow-pass vlan 1
port trunk allow-pass vlan 10 20
```

Configuration on Router (R1):

We make sub interfaces on Ethernet 0/0/0 for inter VLAN communication by running these commands.

```
interface Ethernet0/0/0
#
interface Ethernet0/0/0.10
dot1q termination vid 10
ip address 192.168.10.250 255.255.255.0
arp broadcast enable
#
interface Ethernet0/0/0.20
dot1q termination vid 20
ip address 192.168.20.250 255.255.255.0
arp broadcast enable
#
```

Now we can ping PC2 from PC1

```
PC>ping 192.168.20.100

Ping 192.168.20.100: 32 data bytes, Press Ctrl_C to break
From 192.168.20.100: bytes=32 seq=1 ttl=127 time=125 ms
From 192.168.20.100: bytes=32 seq=2 ttl=127 time=94 ms
From 192.168.20.100: bytes=32 seq=3 ttl=127 time=141 ms
From 192.168.20.100: bytes=32 seq=4 ttl=127 time=94 ms
From 192.168.20.100: bytes=32 seq=5 ttl=127 time=125 ms

--- 192.168.20.100 ping statistics ---
 5 packet(s) transmitted
 5 packet(s) received
 0.00% packet loss
 round-trip min/avg/max = 94/115/141 ms

PC>|
```

PC1 from PC2:

```
PC>ping 192.168.10.100

Ping 192.168.10.100: 32 data bytes, Press Ctrl_C to break
From 192.168.10.100: bytes=32 seq=1 ttl=127 time=109 ms
From 192.168.10.100: bytes=32 seq=2 ttl=127 time=125 ms
From 192.168.10.100: bytes=32 seq=3 ttl=127 time=125 ms
From 192.168.10.100: bytes=32 seq=4 ttl=127 time=125 ms
From 192.168.10.100: bytes=32 seq=5 ttl=127 time=125 ms

--- 192.168.10.100 ping statistics ---
 5 packet(s) transmitted
 5 packet(s) received
 0.00% packet loss
 round-trip min/avg/max = 109/121/125 ms

PC>|
```