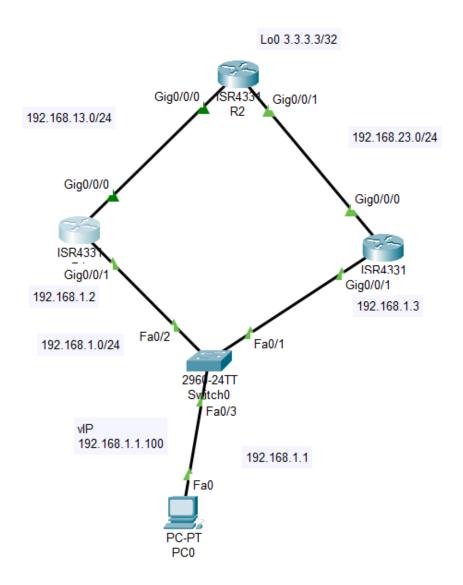
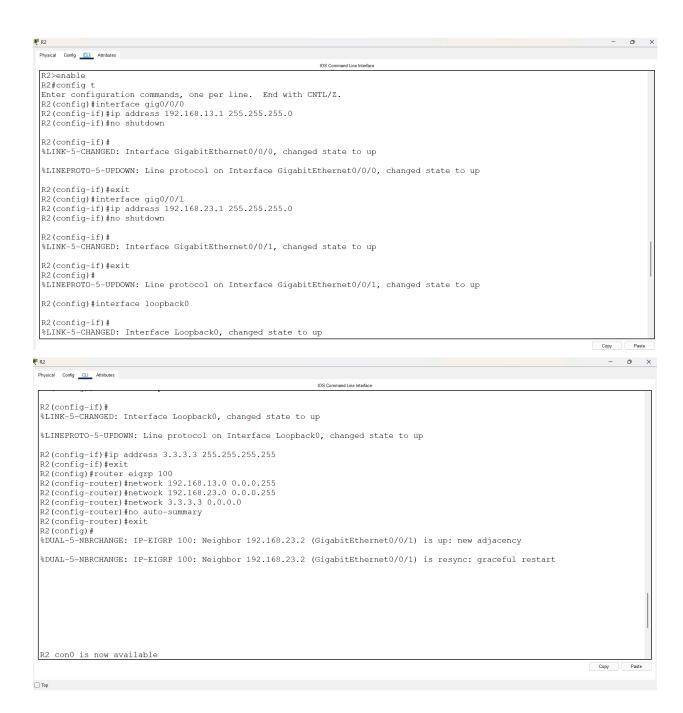
Hot Standby Router Protocol (HSRP) Topology

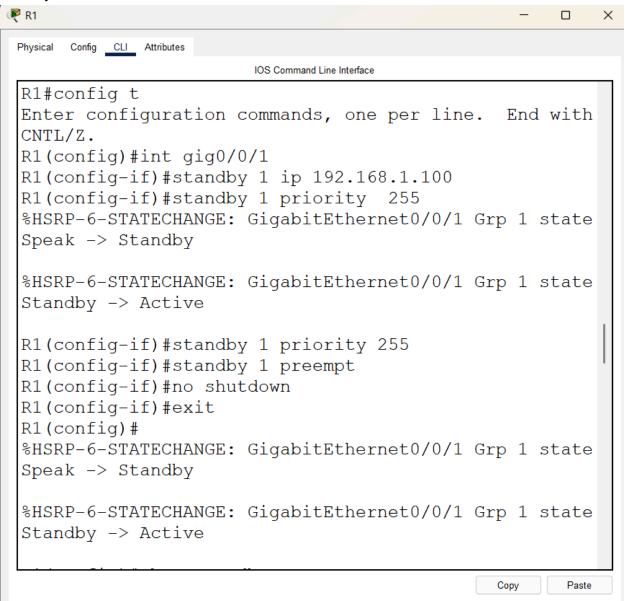




Ping commands

```
PC0
 Physical Config Desktop Programming Attributes
 Command Prompt
 Cisco Packet Tracer PC Command Line 1.0
 C:\>ping 192.168.1.2
 Pinging 192.168.1.2 with 32 bytes of data:
 Reply from 192.168.1.2: bytes=32 time<1ms TTL=255
 Ping statistics for 192.168.1.2:
     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
 Approximate round trip times in milli-seconds:
     Minimum = 0ms, Maximum = 0ms, Average = 0ms
 C:\>ping 192.168.1.3
 Pinging 192.168.1.3 with 32 bytes of data:
 Reply from 192.168.1.3: bytes=32 time<1ms TTL=255
 Ping statistics for 192.168.1.3:
     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
 Approximate round trip times in milli-seconds:
     Minimum = Oms, Maximum = Oms, Average = Oms
C: \ge 3.3.3.3
Pinging 3.3.3.3 with 32 bytes of data:
Reply from 3.3.3.3: bytes=32 time<1ms TTL=254
Reply from 3.3.3.3: bytes=32 time<1ms TTL=254
Reply from 3.3.3.3: bytes=32 time=1ms TTL=254
Reply from 3.3.3.3: bytes=32 time<1ms TTL=254
Ping statistics for 3.3.3.3:
     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
     Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>
```

Standby commands



Show standby

```
R1#show standby
GigabitEthernet0/0/1 - Group 1
  State is Active
    10 state changes, last state change 00:53:25
 Virtual IP address is 192.168.1.100
 Active virtual MAC address is 0000.0C07.AC01
    Local virtual MAC address is 0000.0C07.AC01 (v1
default)
 Hello time 3 sec, hold time 10 sec
    Next hello sent in 1.948 secs
 Preemption enabled
 Active router is local
 Standby router is 192.168.1.3
 Priority 255 (configured 255)
 Group name is hsrp-Gig0/0/1-1 (default)
R1#
```

CONTIGUITING FIOR CERMINAL, MEMOLY, OF MECHOLK [CERMINAL]: Enter configuration commands, one per line. End with CNTL/Z. R3(config)#interface gig0/0/1 R3(config-if) #standby 1 ip 192.168.1.100 R3(config-if)#standby 1 priority 254 R3(config-if)#standby %HSRP-6-STATECHANGE: GigabitEthernet0/0/1 Grp 1 state Speak -> Standby % Incomplete command. R3(config-if) #standby 1 preempt R3(config-if)#exit R3(config)# R3# %SYS-5-CONFIG I: Configured from console by console R3#show standby GigabitEthernet0/0/1 - Group 1 State is Standby 3 state changes, last state change 01:06:00 Virtual IP address is 192.168.1.100 Active virtual MAC address is 0000.0C07.AC01 Local virtual MAC address is 0000.0C07.AC01 (v1 default) Hello time 3 sec, hold time 10 sec Next hello sent in 0.936 secs Preemption enabled Active router is 192.168.1.2 Standby router is local Priority 254 (configured 254) Group name is hern-Gian/n/1-1 (default)

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```
<page-header> R1
                                                            \Box
Physical
      Config CLI Attributes
                          IOS Command Line Interface
 interface GigabitEthernet0/0/0
  ip address 192.168.12.1 255.255.255.0
  duplex auto
  speed auto
 interface GigabitEthernet0/0/1
  ip address 192.168.1.2 255.255.255.0
  duplex auto
  speed auto
  standby 1 ip 192.168.1.100
  standby 1 priority 255
  standby 1 preempt
 interface GigabitEthernet0/0/2
  no ip address
  duplex auto
  speed auto
  shutdown
 interface Vlan1
  no ip address
                                                     Сору
                                                             Paste
```

Show ip route command

```
R1#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
        D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
        E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
        i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
        * - candidate default, U - per-user static route, o - ODR
        P - periodic downloaded static route
Gateway of last resort is not set
      3.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
         3.0.0.0/8 [90/133376] via 192.168.1.3, 01:19:46, GigabitEthernet0/0/1
         3.3.3.3/32 [90/133376] via 192.168.1.3, 01:19:46, GigabitEthernet0/0/1
      192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
         192.168.1.0/24 is directly connected, GigabitEthernet0/0/1
         192.168.1.2/32 is directly connected, GigabitEthernet0/0/1
      192.168.12.0/24 is variably subnetted, 2 subnets, 2 masks
         192.168.12.0/24 is directly connected, GigabitEthernet0/0/0 192.168.12.1/32 is directly connected, GigabitEthernet0/0/0
      192.168.13.0/24 [90/5632] via 192.168.1.3, 01:19:46, GigabitEthernet0/0/1 192.168.23.0/24 [90/5376] via 192.168.1.3, 01:16:47, GigabitEthernet0/0/1
D
```

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