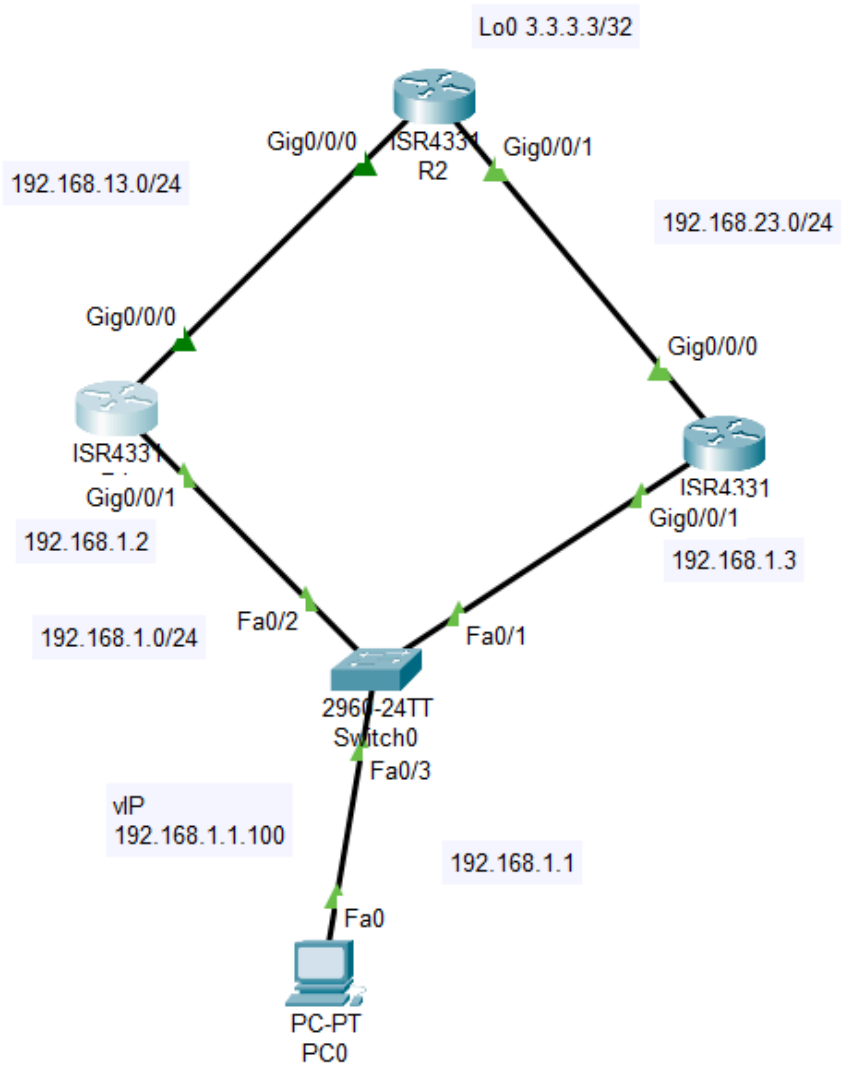
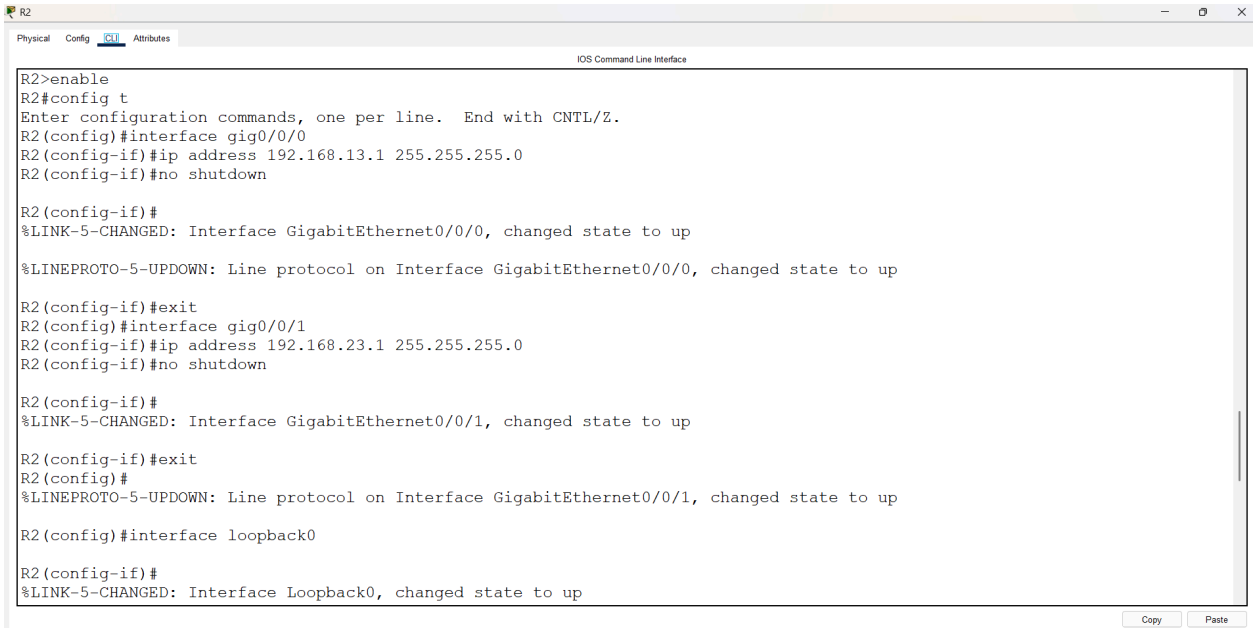
Hot Standby Router Protocol (HSRP)

Topology




R2
Physical
Config
CLI
Attributes
IOS Command Line Interface
R2>enable
R2#config t
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#interface gig0/0/0
R2(config-if)#ip address 192.168.13.1 255.255.255.0
R2(config-if)#no shutdown
R2(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0, changed state to up
R2(config-if)#exit
R2(config)#interface gig0/0/1
R2(config-if)#ip address 192.168.23.1 255.255.255.0
R2(config-if)#no shutdown
R2(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0/1, changed state to up
R2(config-if)#exit
R2(config)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/1, changed state to up
R2(config)#interface loopback0
R2(config-if)#
%LINK-5-CHANGED: Interface Loopback0, changed state to up
Copy
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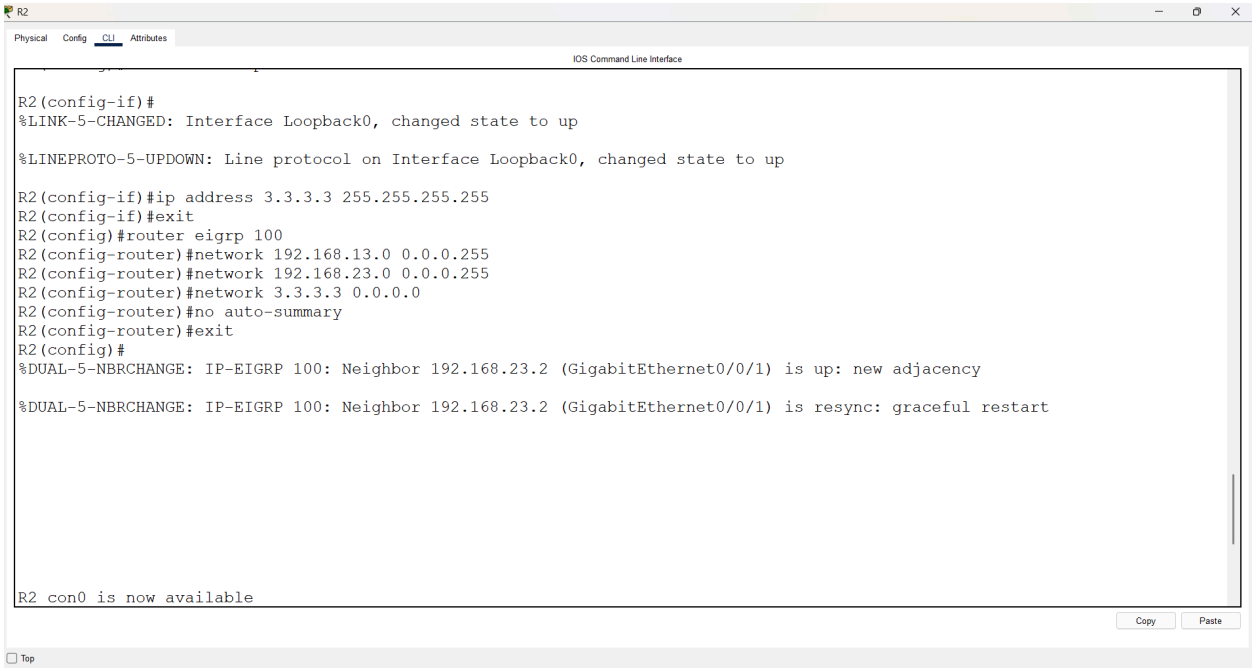
R2
Physical
Config
CLI
Attributes
IOS Command Line Interface
R2(config-if)#
%LINK-5-CHANGED: Interface Loopback0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up
R2(config-if)#ip address 3.3.3.3 255.255.255.255
R2(config-if)#exit
R2(config)#router eigrp 100
R2(config-router)#network 192.168.13.0 0.0.0.255
R2(config-router)#network 192.168.23.0 0.0.0.255
R2(config-router)#network 3.3.3.3 0.0.0.0
R2(config-router)#no auto-summary
R2(config-router)#exit
R2(config)#
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 192.168.23.2 (GigabitEthernet0/0/1) is up: new adjacency
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 192.168.23.2 (GigabitEthernet0/0/1) is resync: graceful restart
R2 con0 is now available
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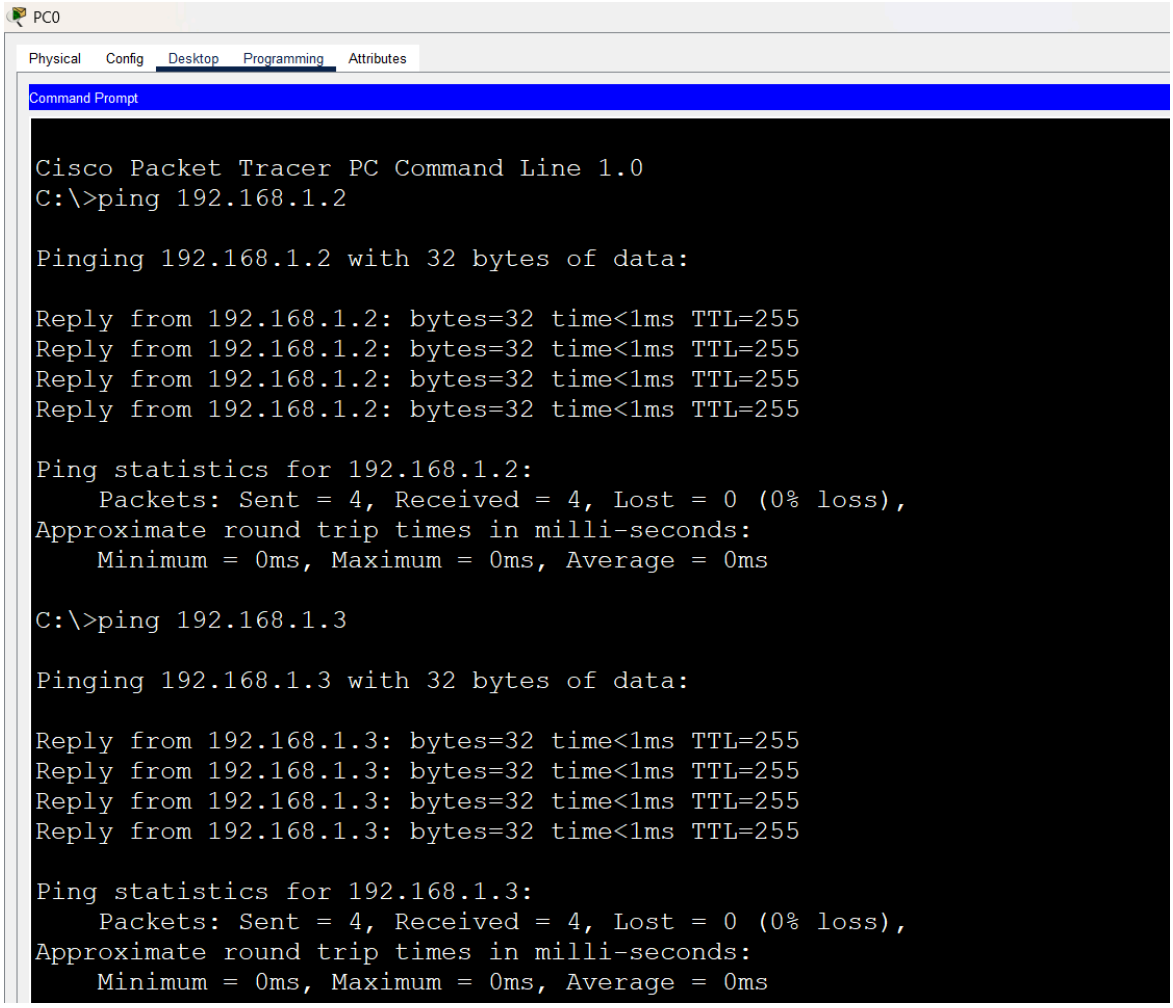
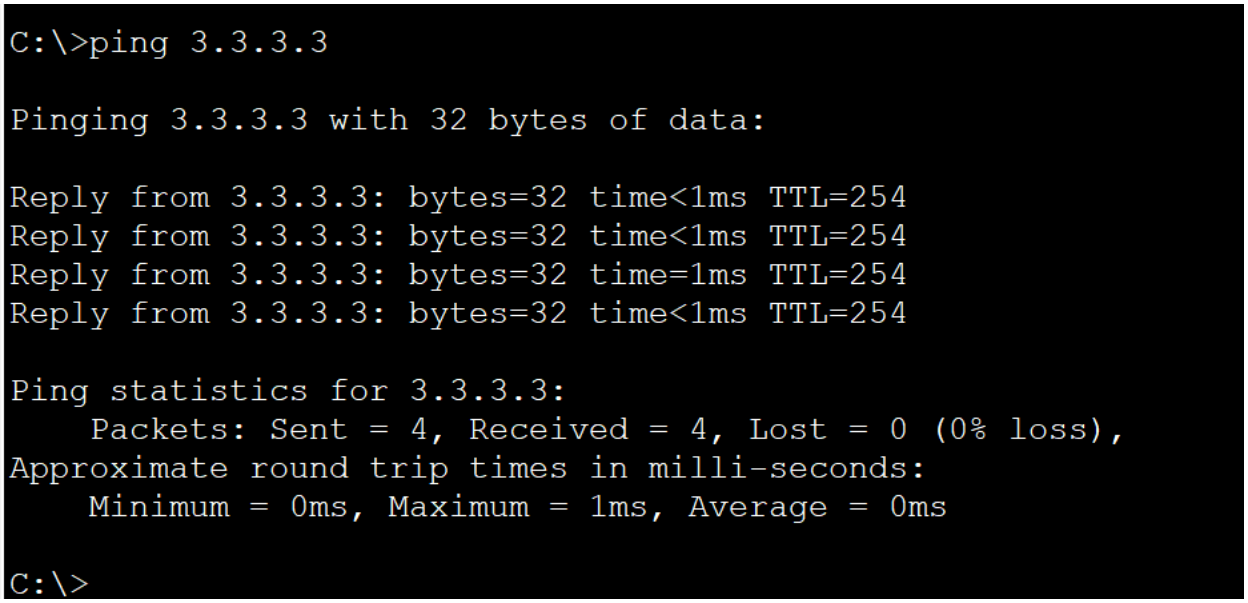
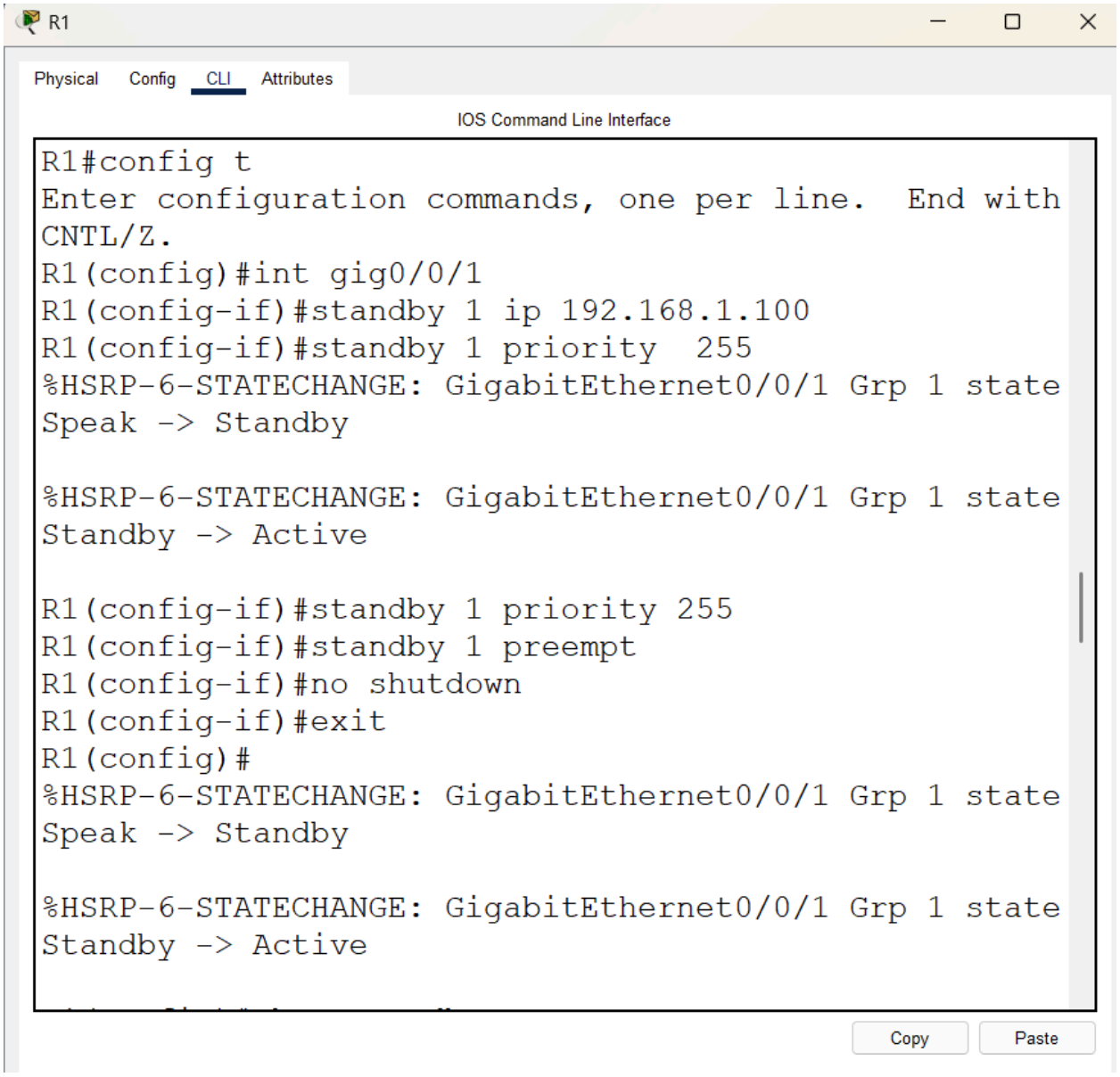
Top

Ping commands





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#
```

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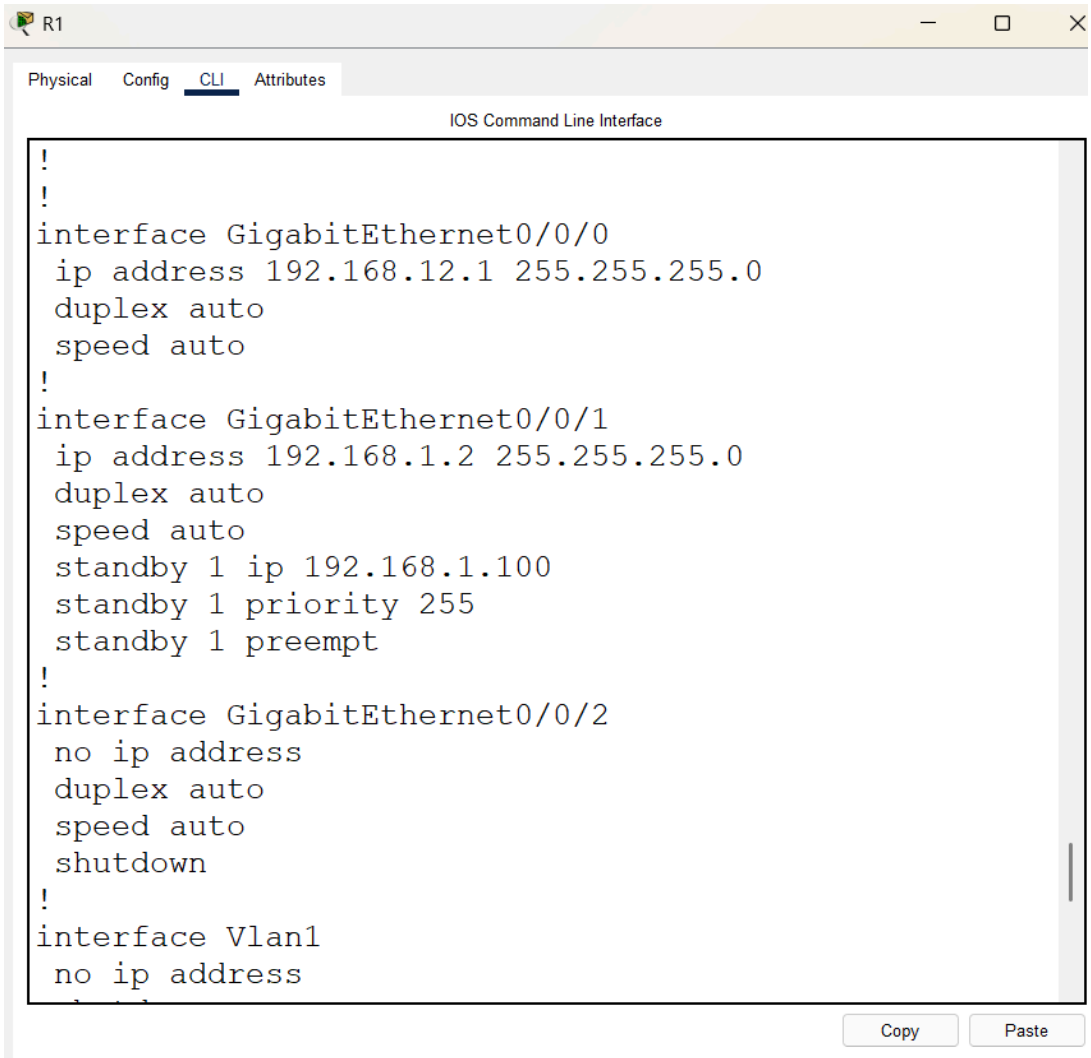
IOS Command Line Interface

```
Configuring from terminal, memory, or network [terminal]?
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 hsrp-Gig0/0/1-1 (default)
```



Show ip route command