

Screenshot (1).png

```
COM6 - PuTTY
Router>
Router>
Router>puttyshow version
Router>show version
Cisco IOS Software, C1900 Software (C1900-UNIVERSALK9-M), Version 15.7(3)M5, REL
EASE SOFTWARE (fcl)
Technical Support: http://www.cisco.com/techsupport
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Compiled Thu 26-Sep-19 23:54 by prod_rel_team

ROM: System Bootstrap, Version 15.0(1r)M16, RELEASE SOFTWARE (fcl)

Router uptime is 9 minutes
System returned to ROM by power-on
System image file is "flash0:c1900-universalk9-mz.SPA.157-3.M5.bin"
Last reload type: Normal Reload
Last reload reason: power-on

This product contains cryptographic features and is subject to United
States and local country laws governing import, export, transfer and
use. Delivery of Cisco cryptographic products does not imply
third-party authority to import, export, distribute or use encryption.
Importers, exporters, distributors and users are responsible for
compliance with U.S. and local country laws. By using this product you
agree to comply with applicable laws and regulations. If you are unable

Router>show ip interface
Embedded-Service-Engine0/0 is administratively down, line protocol is down
Internet protocol processing disabled
GigabitEthernet0/0 is administratively down, line protocol is down
Internet protocol processing disabled
GigabitEthernet0/1 is administratively down, line protocol is down
Internet protocol processing disabled
Router>
```

Screenshot (2).png

```
COM6-PuTTY
% Unknown command or computer name, or unable to find computer address
Router>enable
Router#show ip interface brief
Interface                IP-Address      OK? Method Status      Protocol
Embedded-Service-Engine0/0 unassigned      YES unset   administratively down down
GigabitEthernet0/0       unassigned      YES unset   administratively down down
GigabitEthernet0/1       unassigned      YES unset   administratively down down
Router#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
       I - IS-IS, su - IS-IS summary, 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, H - NHRP, l - LISP
       a - application route
       * - replicated route, % - next hop override, p - overrides from PFR

Gateway of last resort is not set

Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname R1
R1(config)#interface GigabitEthernet0/0
R1(config-if)#ip address 192.168.1.1 255.255.255.0
R1(config-if)#no shutdown
R1(config-if)#exit
R1(config)#
*Jun  3 09:34:56.335: %LINK-3-UPDOWN: Interface GigabitEthernet0/0, changed state to down
*Jun  3 09:34:59.651: %LINK-3-UPDOWN: Interface GigabitEthernet0/0, changed state to up
*Jun  3 09:35:00.651: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up
R1(config-if)#ip address 10.1.1.1 255.255.255.0
R1(config-if)#no shutdown
R1(config-if)#exit
R1(config)#
*Jun  3 09:35:24.103: %LINK-3-UPDOWN: Interface GigabitEthernet0/1, changed state to down
R1(dhcp-config)#
*Jun  3 09:35:27.651: %LINK-3-UPDOWN: Interface GigabitEthernet0/1, changed state to up
*Jun  3 09:35:28.651: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up
R1(dhcp-config)#default-router 192.168.1.1
R1(dhcp-config)#exit
R1(config)#ip dhcp excluded-address 192.168.1.1
R1(config)#192.168.1.10
R1#
*Jun  3 09:36:32.323: %SYS-5-CONFIG_I: Configured from console by console
R1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#ip dhcp excluded-address 192.168.1.1 192.168.1.10
R1(config)#ip dhcp pool LW3_2
R1(dhcp-config)#network 10.1.1.0 255.255.255.0
R1(dhcp-config)#default-router 10.1.1.1
R1(dhcp-config)#exit
R1(config)#ip dhcp excluded-address 10.1.1.1 10.1.1.10
R1(config)#2
R1#
*Jun  3 09:37:54.147: %SYS-5-CONFIG_I: Configured from console by console
show ip interface brief
Interface                IP-Address      OK? Method Status      Protocol
Embedded-Service-Engine0/0 unassigned      YES unset   administratively down down
GigabitEthernet0/0       192.168.1.1     YES manual up          up
GigabitEthernet0/1       10.1.1.1        YES manual up          up
R1#
```

Screenshot (3).png

```
COM6 - PuTTY

R1 com0 is now available

Press RETURN to get started.

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
       I - IS-IS, su - IS-IS summary, 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, H - NHRP, I - ISIS
       a - application route
       * - replicated route, % - next hop override, p - overrides from PFR

Gateway of last resort is not set

10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C       10.1.1.0/24 is directly connected, GigabitEthernet0/1
L       10.1.1.1/32 is directly connected, GigabitEthernet0/1
C       192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.1.0/24 is directly connected, GigabitEthernet0/0
L       192.168.1.1/32 is directly connected, GigabitEthernet0/0
R1>show ip route
```