



## Command Prompt

```
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 11.17.4.2

Pinging 11.17.4.2 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 11.17.4.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 11.17.4.2

Pinging 11.17.4.2 with 32 bytes of data:

Request timed out.
Request timed out.
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Request timed out.

Ping statistics for 11.17.4.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 11.17.4.2

Pinging 11.17.4.2 with 32 bytes of data:

Reply from 11.17.4.2: bytes=32 time<1ms TTL=121
Reply from 11.17.4.2: bytes=32 time<1ms TTL=121
Reply from 11.17.4.2: bytes=32 time<1ms TTL=121
Reply from 11.17.4.2: bytes=32 time=1ms TTL=121

Ping statistics for 11.17.4.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>|
```

## IOS Command Line Interface

```
R9>en
R9#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

 10.0.0.0/8 is variably subnetted, 9 subnets, 3 masks
R    10.17.1.0/24 [120/2] via 10.17.3.1, 00:00:05, GigabitEthernet0/0
      [120/2] via 10.17.3.129, 00:00:14, GigabitEthernet0/1
R    10.17.2.0/25 [120/1] via 10.17.3.1, 00:00:05, GigabitEthernet0/0
R    10.17.2.128/25 [120/1] via 10.17.3.129, 00:00:14, GigabitEthernet0/1
C    10.17.3.0/25 is directly connected, GigabitEthernet0/0
L    10.17.3.2/32 is directly connected, GigabitEthernet0/0
C    10.17.3.128/25 is directly connected, GigabitEthernet0/1
L    10.17.3.130/32 is directly connected, GigabitEthernet0/1
C    10.17.4.0/24 is directly connected, GigabitEthernet0/2
L    10.17.4.1/32 is directly connected, GigabitEthernet0/2
 11.0.0.0/8 is variably subnetted, 6 subnets, 2 masks
R    11.17.1.0/24 [120/12] via 10.17.3.129, 00:00:14, GigabitEthernet0/1
      [120/12] via 10.17.3.1, 00:00:05, GigabitEthernet0/0
R    11.17.2.0/25 [120/12] via 10.17.3.129, 00:00:14, GigabitEthernet0/1
      [120/12] via 10.17.3.1, 00:00:05, GigabitEthernet0/0
R    11.17.2.128/25 [120/12] via 10.17.3.129, 00:00:14, GigabitEthernet0/1
      [120/12] via 10.17.3.1, 00:00:05, GigabitEthernet0/0
R    11.17.3.0/25 [120/12] via 10.17.3.129, 00:00:14, GigabitEthernet0/1
      [120/12] via 10.17.3.1, 00:00:05, GigabitEthernet0/0
R    11.17.3.128/25 [120/12] via 10.17.3.129, 00:00:14, GigabitEthernet0/1
      [120/12] via 10.17.3.1, 00:00:05, GigabitEthernet0/0
R    11.17.4.0/24 [120/12] via 10.17.3.129, 00:00:14, GigabitEthernet0/1
      [120/12] via 10.17.3.1, 00:00:05, GigabitEthernet0/0
R    192.168.1.0/24 [120/12] via 10.17.3.129, 00:00:14, GigabitEthernet0/1
      [120/12] via 10.17.3.1, 00:00:05, GigabitEthernet0/0

R9#
```

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R5

PhysicalConfigCLIAttributes

IOS Command Line Interface

R5>en  
R5#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  
  
10.0.0.0/8 is variably subnetted, 6 subnets, 2 masks  
O E2 10.17.1.0/24 [110/200] via 11.17.3.129, 20:11:55, GigabitEthernet0/0  
[110/200] via 11.17.3.1, 20:11:55, GigabitEthernet0/1  
O E2 10.17.2.0/25 [110/200] via 11.17.3.129, 20:11:55, GigabitEthernet0/0  
[110/200] via 11.17.3.1, 20:11:55, GigabitEthernet0/1  
O E2 10.17.2.128/26 [110/200] via 11.17.3.129, 20:11:55, GigabitEthernet0/0  
[110/200] via 11.17.3.1, 20:11:55, GigabitEthernet0/1  
O E2 10.17.3.0/25 [110/200] via 11.17.3.129, 20:11:55, GigabitEthernet0/0  
[110/200] via 11.17.3.1, 20:11:55, GigabitEthernet0/1  
O E2 10.17.3.128/26 [110/200] via 11.17.3.129, 20:11:55, GigabitEthernet0/0  
[110/200] via 11.17.3.1, 20:11:55, GigabitEthernet0/1  
O E2 10.17.4.0/24 [110/200] via 11.17.3.129, 20:11:55, GigabitEthernet0/0  
[110/200] via 11.17.3.1, 20:11:55, GigabitEthernet0/1  
11.0.0.0/8 is variably subnetted, 9 subnets, 3 masks  
O 11.17.1.0/24 [110/3] via 11.17.3.129, 20:13:51, GigabitEthernet0/0  
[110/3] via 11.17.3.1, 20:13:51, GigabitEthernet0/1  
O 11.17.2.0/25 [110/2] via 11.17.3.1, 20:13:51, GigabitEthernet0/1  
O 11.17.2.128/26 [110/2] via 11.17.3.129, 20:13:51, GigabitEthernet0/0  
C 11.17.3.0/25 is directly connected, GigabitEthernet0/1  
L 11.17.3.2/32 is directly connected, GigabitEthernet0/1  
C 11.17.3.128/26 is directly connected, GigabitEthernet0/0  
L 11.17.3.130/32 is directly connected, GigabitEthernet0/0  
C 11.17.4.0/24 is directly connected, GigabitEthernet0/2  
L 11.17.4.1/32 is directly connected, GigabitEthernet0/2  
O 192.168.1.0/24 [110/4] via 11.17.3.129, 20:13:51, GigabitEthernet0/0  
[110/4] via 11.17.3.1, 20:13:51, GigabitEthernet0/1  
  
R5#  
R5#

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	Time	HostName	Message
1	12.08.2021 09:32:37.756 PM	10.17.3.130	%SYS-5-CONFIG_I: Configured from console by console

	Time	HostName	Message
1	12.08.2021 09:35:59.516 PM	11.17.3.130	%SYS-5-CONFIG_I: Configured from console by console

Server1

PhysicalConfigServicesDesktopProgrammingAttributes

MIB Browser

Address:10.17.3.130OID:1.3.6.1.2.1.1.5.0

Advanced...Operations:SetGO

SNMP MIBs

MIB Tree

router\_std MIBs

.iso

.org

.dod

.internet

.mgmt

.mib-2

.system

.sysDescr

.sysObjectID

.sysUpTime

.sysContact

.sysName

.sysLocation

.interfaces

.ip

.ospf

.rip2

.private

router\_advip MIBs

switch\_L2 MIBs

switch\_multiLayer MIBs

Result Table

Name/OID	Value	Type
1.3.6.1.2.1.1.5.0 (.iso.org.dod.internet.mgm...	CS158R9	OctetString

Name :	.sysName
OID :	1.3.6.1.2.1.1.5.0
Syntax :	
Access :	
Description :	

.iso.org.dod.internet.mgmt.mib-2.system.sysName.0

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Server1

PhysicalConfigServicesDesktopProgrammingAttributes

MIB Browser

Address:11.17.3.130

Advanced...

OID:.1.3.6.1.2.1.1.5.0

Operations:GetGO

SNMP MIBs

MIB Tree

router\_std MIBs

.iso

.org

.dod

.internet

.mgmt

.mib-2

.system

.sysDescr

.sysObjectID

.sysUpTime

.sysContact

.sysName

.sysLocation

> .interfaces

> .ip

> .ospf

> .rip2

> .private

> router\_advip MIBs

> switch\_L2 MIBs

> switch\_multiLayer MIBs

Result Table

Name/OID	Value	Type
.1.3.6.1.2.1.1.5.0 (.iso.org.dod.internet.mgmt...	CS158R5	OctetString

Name :	.sysName
OID :	.1.3.6.1.2.1.1.5.0
Syntax :	
Access :	
Description :	

iso.org.dod.internet.mgmt.mib-2.system.sysName.0

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```
R5>en
R5#show clock
21:39:33.949 UTC Wed Dec 8 2021
R5#show run | begin router ospf
router ospf 1
 log-adjacency-changes
 network 11.17.4.0 0.0.0.255 area 0
 network 11.17.3.0 0.0.0.255 area 0
 network 11.17.3.128 0.0.0.127 area 0
 !
ip classless
 !
ip flow-export version 9
 !
 !
 !
 !
 !
 !
 !
snmp-server community public RO
snmp-server community private RW
 !
logging trap debugging
logging 192.168.1.2
line con 0
 !
line aux 0
 !
line vty 0 4
 login
 !
 !
ntp server 192.168.1.2
 !
end

R5#
R5#
R5#
R5#|
```

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