

```
network 10.20.1.0 0.0.0.255
network 10.30.1.0 0.0.0.255
network 10.40.1.0 0.0.0.255
#
return
[Router_1-ospf-2]disp ospf 2 br

      OSPF Process 2 with Router ID 1.1.1.1
      OSPF Protocol Information

RouterID: 1.1.1.1      Border Router:
Multi-VPN-Instance is not enabled
Global DS-TE Mode: Non-Standard IETF Mode
Graceful-restart capability: disabled
Helper support capability : not configured
Applications Supported: MPLS Traffic-Engineering
Spf-schedule-interval: max 10000ms, start 500ms, hold 1000ms
Default ASE parameters: Metric: 1 Tag: 1 Type: 2
Route Preference: 10
ASE Route Preference: 150
SPF Computation Count: 5
RFC 1583 Compatible
Retransmission limitation is disabled
bfd enabled
BFD Timers: Tx-Interval 1000 , Rx-Interval 1000 , Multiplier 3
Area Count: 1  Nssa Area Count: 0
ExChange/Loading Neighbors: 0
Process total up interface count: 3
Process valid up interface count: 3
Flush protect mode: false

Area: 0.0.0.0      (MPLS TE not enabled)
Authtype: None  Area flag: Normal
SPF scheduled Count: 5
ExChange/Loading Neighbors: 0
Router ID conflict state: Normal
Area interface up count: 3

Interface: 10.1.0.101 (GigabitEthernet0/0/0)
Cost: 1      State: BDR      Type: Broadcast      MTU: 1500
Priority: 1
Designated Router: 10.1.0.102
Backup Designated Router: 10.1.0.101
Timers: Hello 10 , Dead 40 , Poll 120 , Retransmit 5 , Transmit Delay 1
BFD Timers: Tx-Interval 100 , Rx-Interval 100 , Multiplier 3

Interface: 10.10.0.101 (GigabitEthernet0/0/1)
Cost: 1      State: BDR      Type: Broadcast      MTU: 1500
Priority: 1
Designated Router: 10.10.0.102
Backup Designated Router: 10.10.0.101
Timers: Hello 10 , Dead 40 , Poll 120 , Retransmit 5 , Transmit Delay 1

Interface: 10.20.1.1 (GigabitEthernet0/0/2)
Cost: 1      State: Waiting  Type: Broadcast      MTU: 1500
Priority: 1
Designated Router: 0.0.0.0
Backup Designated Router: 0.0.0.0
Timers: Hello 10 , Dead 40 , Poll 120 , Retransmit 5 , Transmit Delay 1
[Router_1-ospf-2]
```

Login authentication

```
Username:amdin
Password:
Error: Authentication failed.
```

Error:Logged Fail!

Please retry after 5 seconds.

Username:admin

Password:

User last login information:

Access Type: Serial

IP-Address : --

Time : 2024-12-22 15:07:19+00:00

<Router_2>sys

Enter system view, return user view with Ctrl+Z.

[Router_2]router id 2.2.2.2

Info: Router ID has been modified, please reset the relative protocols manually to update the Router ID.

[Router_2]q

<Router_2>reset ospf 2 pro

<Router_2>reset ospf 2 process

Warning: The OSPF process will be reset. Continue? [Y/N]:y

<Router_2>

Login authentication

Username:admin

Password:

Error: Authentication failed.

Error:Logged Fail!

Please retry after 5 seconds.

Username:admin

Password:

User last login information:

Access Type: Serial

IP-Address : --

Time : 2024-12-22 15:13:36+00:00

<Router_3>sys

Enter system view, return user view with Ctrl+Z.

[Router_3]rou

[Router_3]routeid

[Router_3]route

[Router_3]router

[Router_3]router i

[Router_3]router id 3.3.3.3

Info: Router ID has been modified, please reset the relative protocols manually to update the Router ID.

[Router_3]

[Router_3]

[Router_3]q

<Router_3>reset ospf 2 pro

<Router_3>reset ospf 2 process

Warning: The OSPF process will be reset. Continue? [Y/N]:y

<Router_3>sys

Enter system view, return user view with Ctrl+Z.

[Router_3]disp ospf peer

OSPF Process 2 with Router ID 3.3.3.3
Neighbors

Area 0.0.0.0 interface 10.1.0.102(GigabitEthernet0/0/0)'s neighbors

```
Router ID: 1.1.1.1      Address: 10.1.0.101
State: Full Mode:Nbr is Slave Priority: 1
DR: 10.1.0.101 BDR: None MTU: 0
Dead timer due in 40 sec
Retrans timer interval: 5
Neighbor is up for 00:00:01
Authentication Sequence: [ 0 ]
```

```
[Router_3]q
<Router_3>sys
Enter system view, return user view with Ctrl+Z.
[Router_3]disp ip rout
[Router_3]disp ip routi
Route Flags: R – relay, D – download to fib, T – to vpn-instance
```

```
-----
Routing Tables: Public
Destinations : 15      Routes : 16

Destination/Mask  Proto  Pre  Cost    Flags NextHop        Interface
-----
0/0/0             10.1.0.0/24 Direct 0    0       D   10.1.0.102      GigabitEthernet
0/0/0             10.1.0.102/32 Direct 0    0       D   127.0.0.1       GigabitEthernet
0/0/0             10.1.0.255/32 Direct 0    0       D   127.0.0.1       GigabitEthernet
0/0/0             10.10.0.0/24 OSPF   10   2       D   10.1.0.101      GigabitEthernet
0/0/0             OSPF   10   2       D   10.40.1.101     GigabitEthernet
0/0/1             10.20.1.0/24 OSPF   10   2       D   10.1.0.101      GigabitEthernet
0/0/0             10.30.1.0/24 Direct 0    0       D   10.30.1.1       GigabitEthernet
0/0/2             10.30.1.1/32 Direct 0    0       D   127.0.0.1       GigabitEthernet
0/0/2             10.30.1.255/32 Direct 0    0       D   127.0.0.1       GigabitEthernet
0/0/2             10.40.1.0/24 Direct 0    0       D   10.40.1.102     GigabitEthernet
0/0/1             10.40.1.102/32 Direct 0    0       D   127.0.0.1       GigabitEthernet
0/0/1             10.40.1.255/32 Direct 0    0       D   127.0.0.1       GigabitEthernet
0/0/1             127.0.0.0/8 Direct 0    0       D   127.0.0.1       InLoopBack0
0/0/1             127.0.0.1/32 Direct 0    0       D   127.0.0.1       InLoopBack0
127.255.255.255/32 Direct 0    0       D   127.0.0.1       InLoopBack0
255.255.255.255/32 Direct 0    0       D   127.0.0.1       InLoopBack0
```

```
[Router_3]int g0/0/0
[Router_3-GigabitEthernet0/0/0]di th
[V300R019C00SPC300]
#
interface GigabitEthernet0/0/0
undo portswitch
ip address 10.1.0.102 255.255.255.0
ospf cost 1
ospf bfd enable
ospf bfd min-tx-interval 100 min-rx-interval 100
#
return
[Router_3-GigabitEthernet0/0/0]
[Router_1-ospf-2]
[Router_1-ospf-2]
[Router_1-ospf-2]q
[Router_1]
[Router_1]disp ospf peer
```

```
OSPF Process 1 with Router ID 192.168.1.1
```

OSPF Process 2 with Router ID 1.1.1.1
Neighbors

Area 0.0.0.0 interface 10.1.0.101(GigabitEthernet0/0/0)'s neighbors
Router ID: 3.3.3.3 Address: 10.1.0.102
State: Full Mode:Nbr is Master Priority: 1
DR: 10.1.0.101 BDR: 10.1.0.102 MTU: 0
Dead timer due in 38 sec
Retrans timer interval: 8
Neighbor is up for 00:02:21
Authentication Sequence: [0]

Neighbors

Area 0.0.0.0 interface 10.10.0.101(GigabitEthernet0/0/1)'s neighbors
Router ID: 2.2.2.2 Address: 10.10.0.102
State: Full Mode:Nbr is Master Priority: 1
DR: 10.10.0.101 BDR: 10.10.0.102 MTU: 0
Dead timer due in 34 sec
Retrans timer interval: 8
Neighbor is up for 00:03:08
Authentication Sequence: [0]

[Router_1]disp bfd session

^
Error:Incomplete command found at '^' position.

[Router_1]

[Router_1]disp bfd

^
Error:Incomplete command found at '^' position.

[Router_1]disp bfd session all

Local	Remote	PeerIpAddr	State	Type	InterfaceName
8193	0	10.10.0.102	Down	D_IP_IF	GigabitEthernet0/0/1
8194	0	10.1.0.102	Down	D_IP_IF	GigabitEthernet0/0/0

Total UP/DOWN Session Number : 0/2

[Router_1]disp ip routin

[Router_1]disp ip routing-table 10.30.1.0 ver

[Router_1]disp ip routing-table 10.30.1.0 verbose

Route Flags: R - relay, D - download to fib, T - to vpn-instance

Routing Table : Public

Summary Count : 1

Destination: 10.30.1.0/24

Protocol: OSPF

Preference: 10

NextHop: 10.1.0.102

State: Active Adv

Tag: 0

Label: NULL

IndirectID: 0x0

RelayNextHop: 0.0.0.0

TunnelID: 0x0

[Router_1]disp ospf 2

Process ID: 2

Cost: 2

Neighbour: 0.0.0.0

Age: 00h05m46s

Priority: medium

QoSInfo: 0x0

Interface: GigabitEthernet0/0/0

Flags: D

^
Error:Incomplete command found at '^' position.

[Router_1]ospf 2

[Router_1-ospf-2]di th

[V300R019C00SPC300]

```
#
ospf 2
bfd all-interfaces enable
area 0.0.0.0
 network 10.1.0.0 0.0.0.255
 network 10.10.0.0 0.0.0.255
 network 10.20.1.0 0.0.0.255
 network 10.30.1.0 0.0.0.255
 network 10.40.1.0 0.0.0.255
#
return
[Router_1-ospf-2]int g0/0/0
[Router_1-GigabitEthernet0/0/0]di th
[V300R019C00SPC300]
#
interface GigabitEthernet0/0/0
 undo portswitch
 ip address 10.1.0.101 255.255.255.0
 ospf cost 1
 ospf bfd enable
 ospf bfd min-tx-interval 100 min-rx-interval 100
#
return
[Router_1-GigabitEthernet0/0/0]q
[Router_1]bfd
[Router_1-bfd]di th
[V300R019C00SPC300]
#
bfd
#
return
[Router_1-bfd]q
[Router_1]
```

Login authentication

```
Username:admin
Password:
Error: Authentication failed.
```

Error:Logged Fail!

Please retry after 5 seconds.

```
Username:admin
Password:
```

User last login information:

```
-----
Access Type: Serial
IP-Address : --
Time      : 2024-12-22 15:28:13+00:00
-----
```

```
<Router_3>sys
Enter system view, return user view with Ctrl+Z.
```

```
[Router_3]di ospf bfd se
[Router_3]di ospf bfd session a
[Router_3]di ospf bfd session all
```

OSPF Process 2 with Router ID 3.3.3.3

Area 0.0.0.0 interface 10.1.0.102(GigabitEthernet0/0/0)'s BFD Sessions

```
NeighborId:1.1.1.1      AreaId:0.0.0.0      Interface:GigabitEthernet0/
0/0
BFDState:down          rx      :0          tx      :0
Multiplier:0          BFD Local Dis:0    LocalIpAdd:10.1.0.102
RemotepAdd:10.1.0.101  Diagnostic Info:Global BFD is not enabled
```

```
Area 0.0.0.0 interface 10.40.1.102(GigabitEthernet0/0/1)'s BFD Sessions
NeighborId:2.2.2.2      Areaid:0.0.0.0      Interface:GigabitEthernet0/0/1
BFDState:down          rx   :0             tx   :0
Multiplier:0           BFD Local Dis:0     LocalIpAdd:10.40.1.102
RemoteIpAdd:10.40.1.101 Diagnostic Info:Global BFD is not enabled
```

```
[Router_3]int g0/0/0
[Router_3-GigabitEthernet0/0/0]di th
[V300R019C00SPC300]
#
interface GigabitEthernet0/0/0
undo portswitch
ip address 10.1.0.102 255.255.255.0
ospf cost 1
ospf bfd enable
ospf bfd min-tx-interval 100 min-rx-interval 100
#
return
[Router_3-GigabitEthernet0/0/0]bfd
[Router_3-bfd]q
[Router_3]sys
^
```

Error:Ambiguous command found at '^' position.

```
[Router_3]di ospf bfd session all

      OSPF Process 2 with Router ID 3.3.3.3
Area 0.0.0.0 interface 10.1.0.102(GigabitEthernet0/0/0)'s BFD Sessions
```

```
NeighborId:1.1.1.1      Areaid:0.0.0.0      Interface:GigabitEthernet0/0/0
BFDState:up            rx   :100           tx   :100
Multiplier:3           BFD Local Dis:8192  LocalIpAdd:10.1.0.102
RemoteIpAdd:10.1.0.101 Diagnostic Info:No diagnostic information
```

```
Area 0.0.0.0 interface 10.40.1.102(GigabitEthernet0/0/1)'s BFD Sessions
NeighborId:2.2.2.2      Areaid:0.0.0.0      Interface:GigabitEthernet0/0/1
BFDState:down          rx   :11000         tx   :11000
Multiplier:0           BFD Local Dis:8193  LocalIpAdd:10.40.1.102
RemoteIpAdd:10.40.1.101 Diagnostic Info:No diagnostic information
```

```
[Router_3]
[Router_1]bfd
[Router_1-bfd]q
[Router_1]disp bfd session all
```

Local	Remote	PeerIpAddr	State	Type	InterfaceName
8193	0	10.10.0.102	Down	D_IP_IF	GigabitEthernet0/0/1
8194	8192	10.1.0.102	Up	D_IP_IF	GigabitEthernet0/0/0

```
Total UP/DOWN Session Number : 1/1
[Router_1]
```

Login authentication

```
Username:admin
Password:
```

User last login information:

Access Type: Serial
IP-Address : --
Time : 2024-12-22 15:19:13+00:00

```
<Router_2>sys
Enter system view, return user view with Ctrl+Z.
[Router_2]bfd
[Router_2-bfd]q
[Router_2]
[Router_1]
[Router_1]disp bfd session all
```

Local	Remote	PeerIpAddr	State	Type	InterfaceName
8193	8192	10.10.0.102	Up	D_IP_IF	GigabitEthernet0/0/1
8194	8192	10.1.0.102	Up	D_IP_IF	GigabitEthernet0/0/0

Total UP/DOWN Session Number : 2/0
[Router_1]

Login authentication

Username:admin
Password:
Error: Authentication fail

Username:admin
Password:
Info: Lastest accessed IP: Invalid IP address Time: 2024-12-22 15:16:19 Failed
: 1

Info: Smart-upgrade is currently disabled. Enable Smart-upgrade to get recommend ed version information.

```
<LSW>sys
Enter system view, return user view with Ctrl+Z.
```

```
[LSW]disp int br
PHY: Physical
*down: administratively down
#down: LBDT down
(l): loopback
(s): spoofing
(E): E-Trunk down
(b): BFD down
(e): ETHOAM down
(dl): DLDP down
(lb): LBDT block
(o): Observe-port forwarding down
InUti/OutUti: input utility/output utility
```

Interface	PHY	Protocol	InUti	OutUti	inErrors	outErrors
GigabitEthernet0/0/1	up	up	0%	0%	0	0
GigabitEthernet0/0/2	up	up	0%	0%	0	0
GigabitEthernet0/0/3	down	down	0%	0%	0	0
GigabitEthernet0/0/4	down	down	0%	0%	0	0
GigabitEthernet0/0/5	down	down	0%	0%	0	0
GigabitEthernet0/0/6	down	down	0%	0%	0	0
GigabitEthernet0/0/7	down	down	0%	0%	0	0
GigabitEthernet0/0/8	down	down	0%	0%	0	0
GigabitEthernet0/0/9	down	down	0%	0%	0	0

GigabitEthernet0/0/10	down	down	0%	0%	0	0
GigabitEthernet0/0/11	down	down	0%	0%	0	0
GigabitEthernet0/0/12	down	down	0%	0%	0	0
GigabitEthernet0/0/13	down	down	0%	0%	0	0
GigabitEthernet0/0/14	down	down	0%	0%	0	0
GigabitEthernet0/0/15	down	down	0%	0%	0	0
GigabitEthernet0/0/16	down	down	0%	0%	0	0
GigabitEthernet0/0/17	down	down	0%	0%	0	0
GigabitEthernet0/0/18	down	down	0%	0%	0	0
GigabitEthernet0/0/19	down	down	0%	0%	0	0
GigabitEthernet0/0/20	down	down	0%	0%	0	0
GigabitEthernet0/0/21	down	down	0%	0%	0	0
GigabitEthernet0/0/22	down	down	0%	0%	0	0
GigabitEthernet0/0/23	down	down	0%	0%	0	0
GigabitEthernet0/0/24	down	down	0%	0%	0	0

```
[LSW]int g0/0/0
```

```
^
```

```
Error: Wrong parameter found at '^' position.
```

```
[LSW]int g 0/0/0
```

```
^
```

```
Error: Wrong parameter found at '^' position.
```

```
[LSW]int g 0/0/1
```

```
[LSW-GigabitEthernet0/0/1]shut
```

```
[LSW-GigabitEthernet0/0/1]shutdown
```

```
[LSW-GigabitEthernet0/0/1]undo s
```

```
[LSW-GigabitEthernet0/0/1]undo shut
```

```
[LSW-GigabitEthernet0/0/1]undo shutdown
```

```
[LSW-GigabitEthernet0/0/1]shutdown
```

```
[LSW-GigabitEthernet0/0/1]
```

User interface con0 is available

Please Press ENTER.