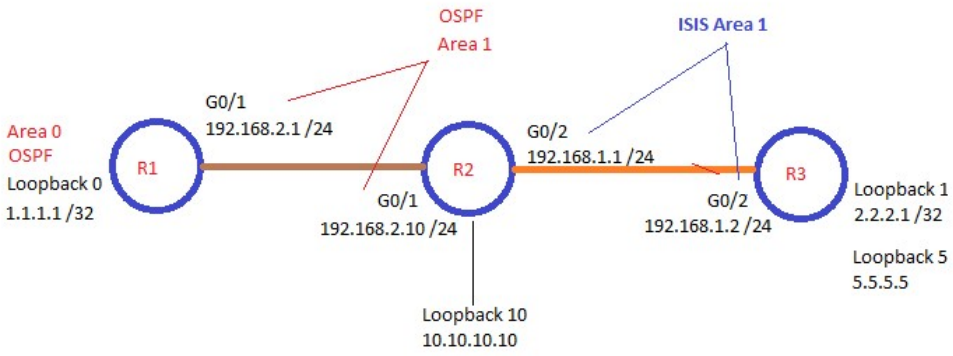
ISIS Authentication

Purpose	**Set authentication password to validate ISIS neighbour.**
Test setup	
Test configuration	**Router 2** interface GigaEthernet0/2 ip address 192.168.1.1 255.255.255.0 no ip directed-broadcast ip router isis 1 isis password test ip http firewalltype 0 ! router isis 1 net 00.0001.0000.0000.0001.00 **Router 3** interface GigaEthernet0/2 ip address 192.168.1.2 255.255.255.0 no ip directed-broadcast ip router isis 1 isis password test ip http firewalltype 0 ! router isis 1 net 00.0001.0000.0000.0002.00
Procedure	Configure ISIS authentication for neighbors using interface mode command - isis password <pwd> level-1 / level-2
Test result	If both routers are configured for matching password then neighborship will be formed. If password mismatched then neighborship will fail. Router_3_62#sh isis neighbors INSTANCE 1 :: System Id Interface State Type Priority Circuit Id 0000.0000.0001 GigaEthernet0/2 Up L1 64 0000.0000.0001.01 Up L2 64 0000.0000.0001.01 Router_3_62# Router_3_62# Router_3_62#

```
Router_3_62#sh isi route

Codes: C - connected, E - external, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, D - discard, e - external metric

INSTANCE 1 ::
     Destination         Metric      Next-Hop            Interface
L2   1.1.1.1            12          192.168.1.1         GigaEthernet0/2
C    5.5.5.5             10          --                  --
L1   10.10.10.10         20          192.168.1.1         GigaEthernet0/2
L2   10.10.10.10         20          192.168.1.1         GigaEthernet0/2
C    192.168.1.0         10          --                  --

Router_3_62#ping 10.10.10.10
PING 10.10.10.10 (10.10.10.10): 56 data bytes
!!!!!
--- 10.10.10.10 ping statistics ---
5 packets transmitted, 5 packets received, 0% packet loss
round-trip min/avg/max = 0/0/0 ms
```

R2 Show isis route –

```
Router_2_20#sh isis route

Codes: C - connected, E - external, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, D - discard, e - external metric

INSTANCE 1 ::
     Destination         Metric      Next-Hop            Interface
E    1.1.1.1             2           --                  --
L1   5.5.5.5             20          192.168.1.2         GigaEthernet0/2
L2   5.5.5.5             20          192.168.1.2         GigaEthernet0/2
C    10.10.10.10         10          --                  --
C    192.168.1.0         10          --                  --
```

Status	If configured correctly, Router 2 to redistribute connected networks via ISIS, neighbor R3 will learn connected networks configured on R2.