

How to configure the OSPF on DSR

[Topology]

PC1-----(LAN)DSR1(WAN1)------(P1)Router1(P2)------(WAN1)DSR2(LAN)-----PC2

DSR1 info

Lan IP:192.168.10.1/24

Wan1 IP:1.1.1.1/24, Gateway:1.1.1.254/24

DSR2 info

Lan IP:192.168.20.1/24

Wan1 IP:2.2.2.254/24, Gateway:3.3.3.254/24

Router info

P1:1.1.1.254/24, P2:2.2.2.254/24

PC1:192.168.10.100/24, Gateway:192.168.10.1

PC2:192.168.20.100/24, Gateway:192.168.20.1

[DSR1 configuration]

D-Link DSR> net wan wan1 ipv4 configure

net-config[wan1-ipv4]>isp_connection_type STATIC

net-config[wan1-ipv4]>static ip_address 1.1.1.1

net-config[wan1-ipv4]>static subnet_mask 255.255.255.0

net-config[wan1-ipv4]>static gateway_address 1.1.1.254

net-config[wan1-ipv4]>save

net-config[wan1-ipv4]>.top

D-Link DSR> net routing mode configure

net-config[routing-mode]> type Transparent

net-config[routing-mode]> save

net-config[routing-mode]> .top

D-Link DSR> net lan ipv4 configure

net-config[lan-ipv4]> static address 192.168.10.1

net-config[lan-ipv4]> static subnet_mask 255.255.255.0

net-config[lan-ipv4]> save

net-config[lan-ipv4]> .top

D-Link DSR> net routing ospfv2 configure LAN

```
net-config[ospfv2]> area 0
net-config[ospfv2]> enable Y
net-config[ospfv2]> save
net-config[ospfv2]> .top
D-Link DSR> net routing ospfv2 configure OPTION1 #(option1 means wan1)
net-config[ospfv2]> area 0
net-config[ospfv2]> enable Y
net-config[ospfv2]> save
net-config[ospfv2]> .top
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[DSR2 configuration]

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D-Link DSR> net wan wan1 ipv4 configure
net-config[wan1-ipv4]>isp_connection_type STATIC
net-config[wan1-ipv4]>static ip_address 2.2.2.1
net-config[wan1-ipv4]>static subnet_mask 255.255.255.0
net-config[wan1-ipv4]>static gateway_address 2.2.2.254
net-config[wan1-ipv4]>save
net-config[wan1-ipv4]>.top
D-Link DSR> net routing mode configure
net-config[routing-mode]> type Transparent
net-config[routing-mode]> save
net-config[routing-mode]> .top
D-Link DSR> net lan ipv4 configure
net-config[lan-ipv4]> static address 192.168.20.1
net-config[lan-ipv4]> static subnet_mask 255.255.255.0
net-config[lan-ipv4]> save
net-config[lan-ipv4]> .top
D-Link DSR> net routing ospfv2 configure LAN
net-config[ospfv2]> area 0
net-config[ospfv2]> enable Y
net-config[ospfv2]> save
net-config[ospfv2]> .top
D-Link DSR> net routing ospfv2 configure OPTION1 #(option1 means wan1)
net-config[ospfv2]> area 0
net-config[ospfv2]> enable Y
net-config[ospfv2]> save
net-config[ospfv2]> .top
```

[Router1]

Enable the OSPF on P1 and P2, and area is 0.0.0.0

[Criteria]

Router1 will learn the network 192.168.10.0/24 from DSR1 and 192.168.20.0/24 from DSR2.

PC1 and PC2 are able to ping each other.