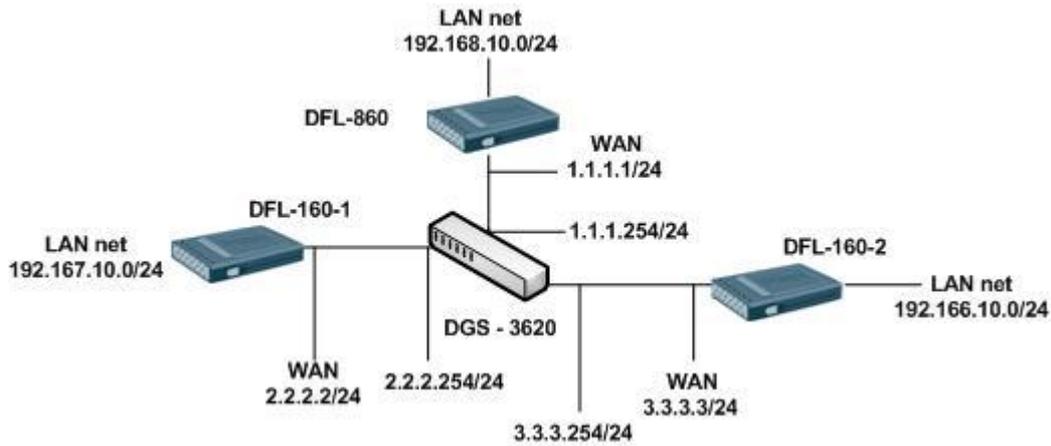


How to setup IPsec Hub and Spoke on DFL-160 with DFL-800

[Topology]



Both of devices PC can connect every site LAN net.

[DFL-800 Setup]

1. Interfaces > Ethernet
Setup WAN1 interface IP.
2. Objects > Address Book

3	DFL-160-1-lan-net	192.167.10.0/24
4	DFL-160-2-lan-net	192.166.10.0/24
5	lan-DFL-160-1-net	DFL-160-1-lan-net, lannet
6	lan-DFL-160-2-net	DFL-160-2-lan-net, lannet

3. Objects > Authentication Objects > Add Pre-Shared Key
KEY: 123456789 (All of IPsec are use the same Pre-Shared Key)

2	key	Pre-Shared Key	ASCII
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4. Interfaces > IPsec
Add two IPsec for the remote side.

1	ipsec-if-to-DFL-160-1	lan-DFL-160-2-net	DFL-160-1-lan-net	2.2.2.2	PSK
2	ipsec-if-to-DFL-160-2	lan-DFL-160-1-net	DFL-160-2-lan-net	3.3.3.3	PSK

ipsec-if-to-DFL-160-1
An IPsec tunnel item is used to define IPsec endpoint and will appear as a logical interface in the system.

General Authentication XAuth Routing IKE Settings Keep-alive Advanced

Automatic Route Creation

Automatically add route for remote network.

Add route for remote network

Route metric:

OK Cancel

5. Interfaces > Interface Groups

#	Name	Members	Comments
1	ipsec-1and2-lan	ipsec-if-to-DFL-160-1, ipsec-if-to-DFL-160-2, lan	

Selected

```
ipsec-if-to-DFL-160-1
ipsec-if-to-DFL-160-2
lan
```

6. Rules > IP Rules



[DFL-160-1]

1. System > Internet connection

Setup the WAN IP.

2. Firewall > VPN

VPN			
Name	VPN Type	RemoteNetwork	RemoteGateway
to-DFL-160-2	IPsec Tunnel	192.166.10.0/24	1.1.1.1
to-DFL-800	IPsec Tunnel	192.168.10.0/24	1.1.1.1

Right-click on a row for additional options.

IPsec | **Advanced**

GENERAL

An IPsec tunnel item is used to define an IPsec endpoint for achieving secure communication across public networks

Name:

Local Network:

AUTHENTICATION

Configure the Pre-Shared Key for this tunnel.

PSK - Pre-Shared Key: Note! Existing PSK will always be shown with 8 characters to hide the actual length.

Confirm PSK:

TUNNEL TYPE

The IPsec tunnel can be configured in either roaming mode or LAN-to-LAN mode.

Roaming Users

Require user authentication via IKE XAuth to open tunnel.

LAN-to-LAN

Remote Network:

Remote Gateway: E.g. 10.4.230.2 or dns:gw.domain.com

Pass username and password to peer via IKE XAuth, if the remote gateway requires it.

XAuth User Name:

XAuth Password: Note! Existing passwords will always be shown with 8 characters to hide the actual length.

Confirm Password:

IPsec **Advanced**

GENERAL

An IPsec tunnel item is used to define an IPsec endpoint for achieving secure communication across public networks

Name:

Local Network:

AUTHENTICATION

Configure the Pre-Shared Key for this tunnel.

PSK - Pre-Shared Key: Note! Existing PSK will always be shown with 8 characters to hide the actual length.

Confirm PSK:

TUNNEL TYPE

The IPsec tunnel can be configured in either roaming mode or LAN-to-LAN mode.

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LAN-to-LAN

Remote Network:

Remote Gateway: E.g. 10.4.230.2 or dns:gw.domain.com

Pass username and password to peer via IKE XAuth, if the remote gateway requires it.

XAuth User Name:

XAuth Password: Note! Existing passwords will always be shown with 8 characters to hide the actual length.

Confirm Password:

[DFL-160-2]

1. System > Internet connection
Setup the WAN IP.
2. Firewall > VPN

VPN

 Add ▾

Name ▾	VPN Type	RemoteNetwork	RemoteGateway
to-DFL-160-1	IPsec Tunnel	192.167.10.0/24	1.1.1.1
to-DFL-800	IPsec Tunnel	192.168.10.0/24	1.1.1.1

 Right-click on a row for additional options.

IPsec **Advanced**

GENERAL

An IPsec tunnel item is used to define an IPsec endpoint for achieving secure communication across public networks

Name:

Local Network:

AUTHENTICATION

Configure the Pre-Shared Key for this tunnel.

PSK - Pre-Shared Key:

Confirm PSK:

Note! Existing PSK will always be shown with 8 characters to hide the actual length.

TUNNEL TYPE

The IPsec tunnel can be configured in either roaming mode or LAN-to-LAN mode.

Roaming Users

Require user authentication via IKE XAuth to open tunnel.

LAN-to-LAN

Remote Network:

Remote Gateway: E.g. 10.4.230.2 or dns:gw.domain.com

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XAuth User Name:

XAuth Password:

Confirm Password:

Note! Existing passwords will always be shown with 8 characters to hide the actual length.

IPsec **Advanced**

GENERAL

An IPsec tunnel item is used to define an IPsec endpoint for achieving secure communication across public networks

Name:

Local Network:

AUTHENTICATION

Configure the Pre-Shared Key for this tunnel.

PSK - Pre-Shared Key:

Confirm PSK:

Note! Existing PSK will always be shown with 8 characters to hide the actual length.

TUNNEL TYPE

The IPsec tunnel can be configured in either roaming mode or LAN-to-LAN mode.

Roaming Users

Require user authentication via IKE XAuth to open tunnel.

LAN-to-LAN

Remote Network:

Remote Gateway: E.g. 10.4.230.2 or dns:gw.domain.com

Pass username and password to peer via IKE XAuth, if the remote gateway requires it.

XAuth User Name:

XAuth Password:

Confirm Password:

Note! Existing passwords will always be shown with 8 characters to hide the actual length.

[Test Result]

1. DFL-800 LAN net PC can access DFL-160-1 and DFL-160-2.
2. DFL-160-1 LAN net PC can access DFL-800 and DFL-160-2.
3. DFL-160-2 LAN net PC can access DFL-800 and DFL-160-1

END