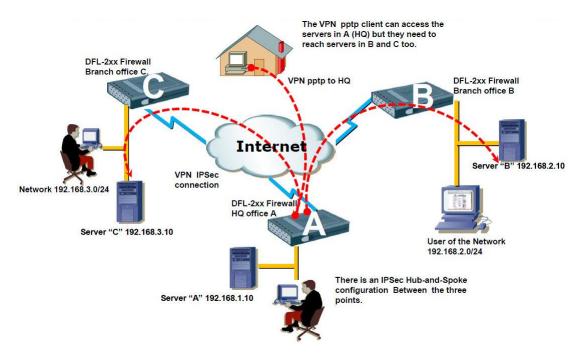# How to set up PPTP Hub-and-Spoke network topology

[Topology]

[Note]

We are not talking about both sides IPSec set up or HQ PPTP set up. Its normal set up. This KM is taught about IP rules and routing set up. If you want to understand about IPsec or PPTP set up. Please kindly check the other KM in D-Track.

This KM is show how is HQ PPTP traffic to Office C, the HQ PPTP traffic to B was same set up. HQ PPTP traffic set up to B is not show in this KM.

[HQ DFL Setup]

1. Rules > IP Rules The index 5(NAT) rule must be a last rules.

# ▼	Name	Action	Src If	Src Net	Dest If	Dest Net	Service
1	HQ_To_C_In	Allow	HQ_To_C	192.168.3.0/24	lan	lannet	all_services
2	HQ_To_C_Out	Allow	lan	lannet	HQ_To_C	192.168.3.0/24	all_services
3	PPTP_In	Allow	PPTP_Server	all-nets	lan	lannet	all_services
4	PPTP_Out	Allow	lan	all-nets	PPTP_Server	all-nets	all_services
5	pptp-nat	NAT	PPTP_Server	all-nets	HQ_To_C	192.168.3.0/24	all_services
6	ping_fw	Allow	lan	lannet	core	lan_ip	ping-inbound
7	lan_to_wan						

2. Routing > Routing Tables > main

# ▼	Type	Interface	Network	Gateway	Local IP address	Metric	Monitor this route	Comments
1	Route	wan	wannet			100	No	Direct route for network wannet over interface wan...
2	Route	wan	all-nets	wan_gw		100	No	Default route over interface wan.
3	Route	dmz	dmznet			100	No	Direct route for network dmznet over interface dmz...
4	Route	lan	lannet			100	No	Direct route for network lannet over interface lan...
5	Route	HQ_To_C	192.168.3.0/24			90	No	Direct route for network 192.168.3.0/24 over inter...
6	Route	HQ_To_B	192.168.2.0/24			90	No	Direct route for network 192.168.2.0/24 over inter...

When you set up B & C sides, we suggestion it can create some of interface group to finish your IP rules in HQ this firewall.

[Office C DFL Setup]

1. Rules > IP Rules

#	Name	Action	Src If	Src Net	Dest If	Dest Net	Service
1	C_To_HQ_in	Allow	IPoh_To_HQ	192.168.1.0/24	lan	lannet	all_services
2	C_To_HQ_Out	Allow	lan	lannet	IPoh_To_HQ	192.168.1.0/24	all_services
3	ping_fw	Allow	lan	lannet	core	lan_ip	ping-inbound
4	lan_to_wan						

Office B firewall was set up same thing.

<div align="center">END</div>