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Flex VPN clients with Dynamic HUB Destination.

Internet
R5:
conf t
int e0/0
ip add 1.1.1.5 255.255.255.0
no sh
exit
int e0/1
ip add 2.2.2.5 255.255.255.0
no sh
exit
int e0/2
ip add 3.3.3.5 255.255.255.0
no sh
exit
int e0/3
ip add 4.4.4.5 255.255.255.0
no sh
exit
==
R1:

conf t
Int loopback 0
Ip add 10.1.1.1 255.255.255.0
!
Int F 0/0
Ip add 1.1.1.1 255.255.255.0
No shut
!
Ip route 0.0.0.0 0.0.0.0 1.1.1.5

R2:
conf t
Int loopback 0
Ip add 10.2.2.2 255.255.255.0
!
Int F 0/0
Ip add 2.2.2.2 255.255.255.0
No shut
!
Ip route 0.0.0.0 0.0.0.0 2.2.2.5

R3:
conf t
Int loopback 0
Ip add 10.3.3.3 255.255.255.0
!
Int F 0/0
Ip add 3.3.3.3 255.255.255.0
No shut

```
!
Ip route 0.0.0.0 0.0.0.0 3.3.3.5


R4:
conf t
Int loopback 0
Ip add 10.4.4.4 255.255.255.0
!
Int F 0/0
Ip add 4.4.4.4 255.255.255.0
No shut
!
Ip route 0.0.0.0 0.0.0.0 4.4.4.5



================================================================
R1:HUB

conf t
ip local pool FLEX 192.168.2.2 192.168.2.254
!

!note:- Loopback is assigned an ip address for tunnel.

Interface loopback 2
Ip address 192.168.2.1 255.255.255.0

int virtual-template 3 type tunnel
ip unnumbered Lo2
tunnel source e0/0
tunnel mode ipsec ipv4
!
access-list 1 permit  10.1.1.0 0.0.0.255

crypto ikev2 keyring KR_CLIENTS
peer Clients
address 0.0.0.0
pre-shared cisco123
exit
exit

crypto ikev2 authorization policy default
pool FLEX
route set interface
route set access-list 1

 !route set interface:  A static route will be generated on hub for the ip assigned to the client
!route set access-list 1:  A static route will be generated on hub for the clients LAN

crypto ikev2 profile PROF_CLIENTS
match identity remote address 0.0.0.0 0.0.0.0
authentication remote pre-share
authentication local pre-share
keyring local KR_CLIENTS
```

```
aaa authorization group over psk list default default
virtual-template 3
!
Crypto ipsec profile CLIENTS
set ikev2-profile PROF_CLIENTS
!
int virtual-template 3 type tunnel
tunnel protection ipsec profile CLIENTS
================================================================
R2:HUB2


ip local pool FLEX 172.168.2.3 172.168.2.254
!


Interface loopback 2
Ip address 172.168.2.2 255.255.255.0

int virtual-template 3 type tunnel
ip unnumbered Lo2
tunnel source e0/0
tunnel mode ipsec ipv4
!
access-list 1 permit 10.1.1.0 0.0.0.255

!
crypto ikev2 keyring KR_CLIENTS
peer Clients
address 0.0.0.0
 pre-shared cisco123
!
crypto ikev2 authorization policy default
pool FLEX
route set interface
route set access-list 1
!
crypto ikev2 profile PROF_CLIENTS
match identity remote address 0.0.0.0 0.0.0.0
authentication remote pre-share
authentication local pre-share
keyring local KR_CLIENTS
aaa authorization group over psk list default default
virtual-template 3
!
Crypto ipsec profile CLIENTS
set ikev2-profile PROF_CLIENTS
!
int virtual-template 3 type tunnel
tunnel protection ipsec profile CLIENTS
================================================================
R2

aaa new-model
aaa authorization network default local
!
```

```
access-list 1 permit 10.2.2.0 0.0.0.255
!

crypto ikev2 keyring KR_R1
peer hub
address 0.0.0.0
pre-shared cisco123
!
crypto ikev2 authorization policy default
route set access-list 1
route set interface
!
crypto ikev2 profile PROF_1
match identity remote address 0.0.0.0 0.0.0.0
authentication remote pre-share
authentication local pre-share
keyring local KR_R1
aaa authorization group override psk list default default
!

!
crypto ipsec profile ABC
set ikev2-profile PROF_1
!
int tunnel 1
ip add negotiated
tunnel source  e0/0
tunnel destination dynamic
tunnel mode ipsec ipv4
tunnel protection ipsec profile ABC
!
crypto ikev2 client flexvpn flex
peer 1 1.1.1.1
connect auto
client connect Tunnel1
!
============================================================
R3:
aaa new-model
aaa authorization network default local
!
access-list 1 permit 10.3.3.0 0.0.0.255


crypto ikev2 keyring KR_R1
peer hub
address 0.0.0.0
pre-shared cisco123
!
crypto ikev2 authorization policy default
route set access-list 1
route set interface
!
crypto ikev2 profile PROF_1
match identity remote address 0.0.0.0 0.0.0.0
```

```
authentication remote pre-share
authentication local pre-share
keyring local KR_R1
aaa authorization group override psk list default default
!
crypto ipsec transform-set ABC esp-gcm
!
crypto ipsec profile ABC
set ikev2-profile PROF_1
!
int tunnel 1
ip add negotiated
tunnel source e0/0
tunnel destination dynamic
tunnel mode ipsec ipv4
tunnel protection ipsec profile ABC
!
crypto ikev2 client flexvpn flex
peer 1 1.1.1.1
connect auto
client connect Tunnel1
!
===========================================================
```