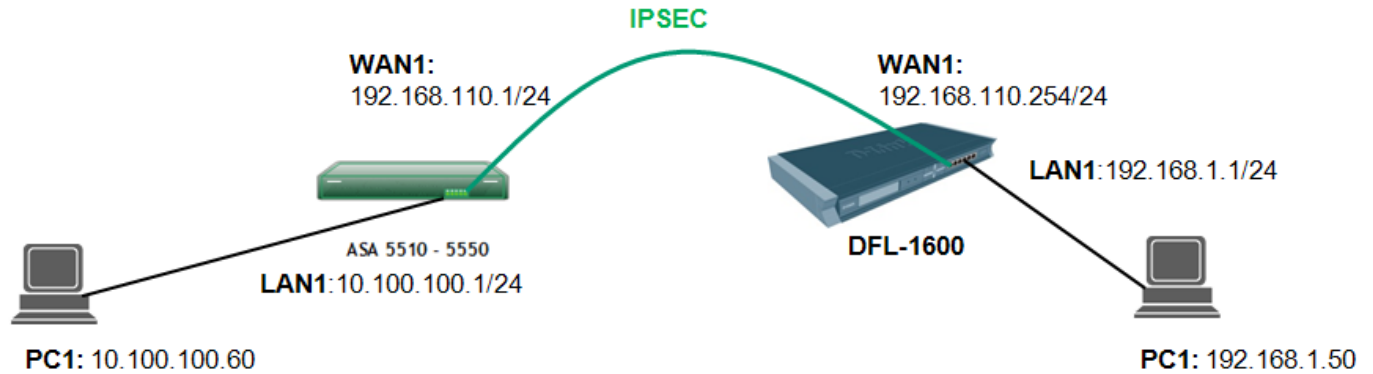


How to build up site-to-site VPN tunnel with Cisco ASA series?

[Scenario]

In this scenario, we will build up a site-to-site (in Cisco's terminology, it's so-called L2L VPN tunnel) VPN tunnel between DFL and CiscoASA.



[Solution]

The settings of DFL-1600 (Firmware version: v2.26.00.06)

```
=====
set Interface Ethernet wan1 DHCPEnabled=No
set Address IP4Address InterfaceAddresses/wan1_ip Address=192.168.110.254
set Address IP4Address InterfaceAddresses/wan1net Address=192.168.110.0/24
add PSK ike-pre Type=ASCII PSKAscii=testtest
add IKEAlgorithms ike-phase1 DES3Enabled=Yes SHA1Enabled=Yes
add IPsecAlgorithms ipsec-phase2 DES3Enabled=Yes SHA1Enabled=Yes

add Interface IPsecTunnel ipsec-to-ASA IKEAlgorithms=ike-phase1 IPsecAlgorithms=ipsec-phase2
PSK=ike-pre RemoteNetwork=10.100.100.0/24 LocalNetwork=InterfaceAddresses/lan1net
RemoteEndpoint=192.168.110.1

add Interface InterfaceGroup ipsec-lan1 Members=ipsec-to-ASA,lan1

add IPRule Action=Allow SourceInterface=ipsec-lan1 SourceNetwork=all-nets
DestinationInterface=ipsec-lan1 DestinationNetwork=all-nets Service=all_services Index=1
LogEnabled=Yes Name=allow-ipsec-lan1

set IPRule 2(ping_fw) SourceInterface=ipsec-lan1 SourceNetwork=all-nets LogEnabled=Yes
=====
```

The settings of Cisco ASA 5510 (IOS version 8.0(4))

```
=====
interface Ethernet0/0
nameif wan1
security-level 0
ip address 192.168.110.1 255.255.255.0

interface Ethernet0/1
nameif lan1
security-level 100
ip address 10.100.100.1 255.255.255.0

access-list 100 extended permit ip 10.100.100.0 255.255.255.0 192.168.1.0 255.255.255.0
access-list nonat extended permit ip 10.100.100.0 255.255.255.0 192.168.1.0 255.255.255.0
```

```
global (wan1) 1 interface
nat (lan1) 0 access-list nonat
nat (lan1) 1 access-list 100 outside
```

```
crypto ipsec transform-set ipsec-phase2 esp-3des esp-sha-hmac
```

```
crypto map wan1-if 20 match address nonat
crypto map wan1-if 20 set peer 192.168.110.254
crypto map wan1-if 20 set transform-set ipsec-phase2
crypto map wan1-if 20 set security-association lifetime seconds 28800
crypto map wan1-if 20 set security-association lifetime kilobytes 4608000
crypto map wan1-if interface wan1
crypto isakmp enable wan1
crypto isakmp policy 10
authentication pre-share
encryption 3des
hash sha
group 2
lifetime 86400
```

```
tunnel-group 192.168.110.254 type ipsec-l2l
tunnel-group 192.168.110.254 ipsec-attributes
pre-shared-key testtest
```

```
sysopt connection permit-vpn
route wan1 0 0 192.168.110.254
```

```
=====
```

End of document.