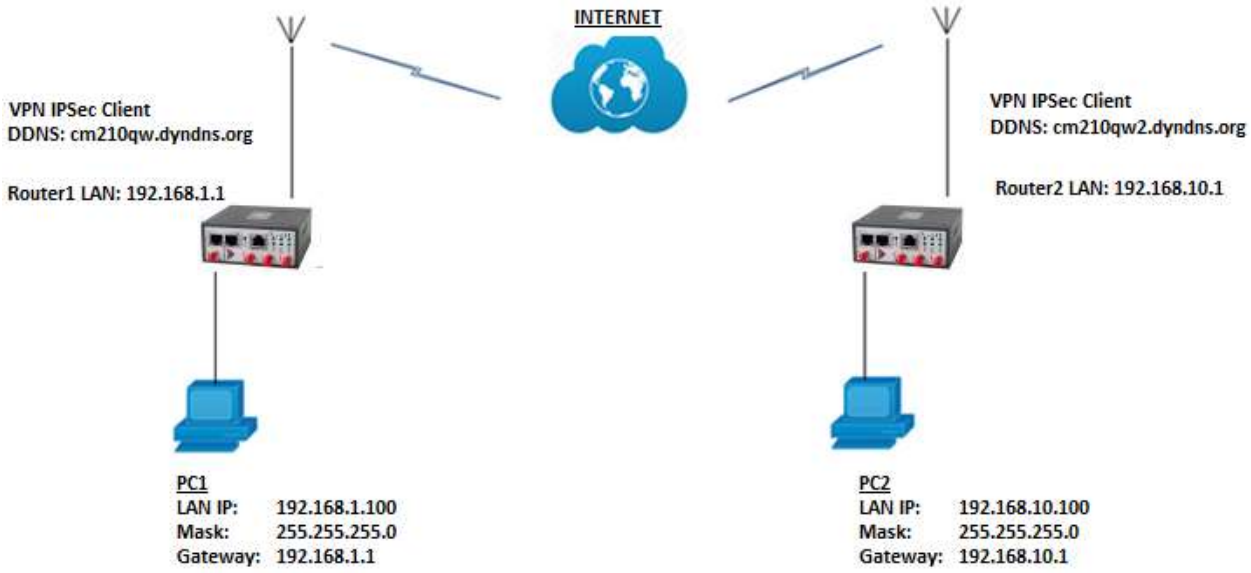
How to configure VPN IPSec on the Comset CM210Q-W

Network Topology:



To configure VPN IPSec on the Comset CM210Q-W router, please configure the router with the correct APN that will provide you with a Public WAN IP address, such as telstra.extranet for a Telstra Data SIM. You need to ask your carrier to activate your SIM card with a Public WAN IP.

1. Router#1

❖ Go to VPN Tunnel -> IPSec1 -> Group Setup. Set as below:

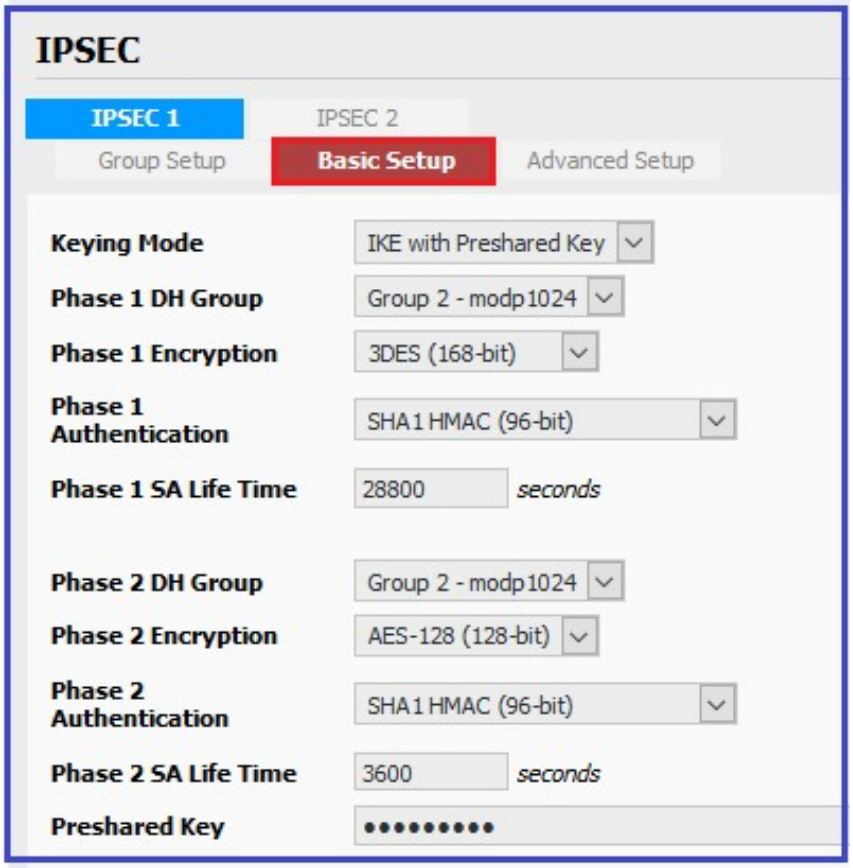
IPsec Mode:	Normal
Local Security Group Subnet/Netmask:	192.168.1.0/24
Local Security Firewalling:	Enabled
Remote Security Gateway:	cm210qw2.dyndns.org
Remote Security Firewalling:	192.168.10.0/24
Remote Security Firewalling:	Enabled

❖ Click on Basic Setup.

Set default Phase1 and Phase2 Groups such as Encryption, Authentication, Lifetime.

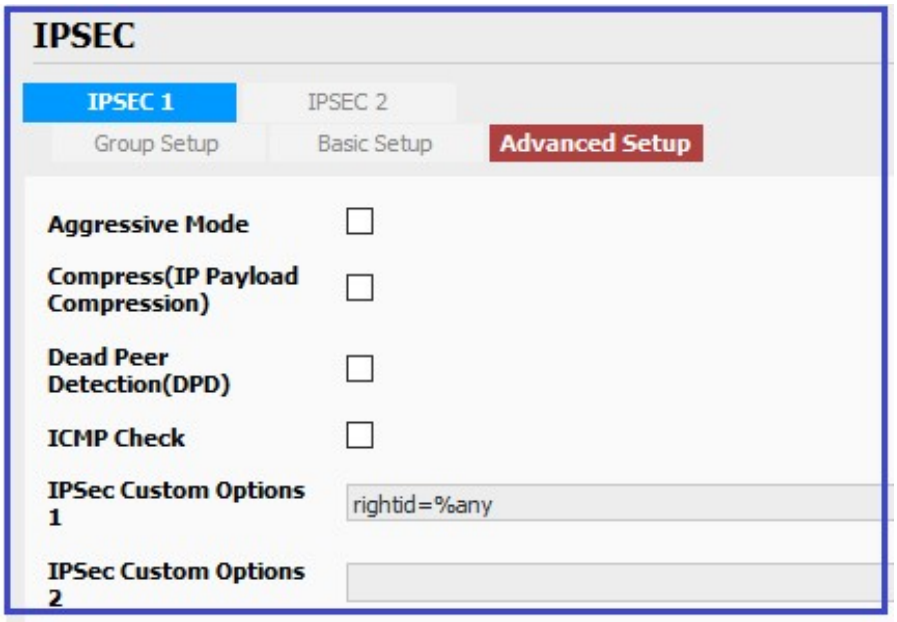
Set Pre-shared key for VPN IPSec.

Note: Pre-shared key should be the same on both routers.



❖ Click on Advanced Set-up and set IPSec Custom Options 1

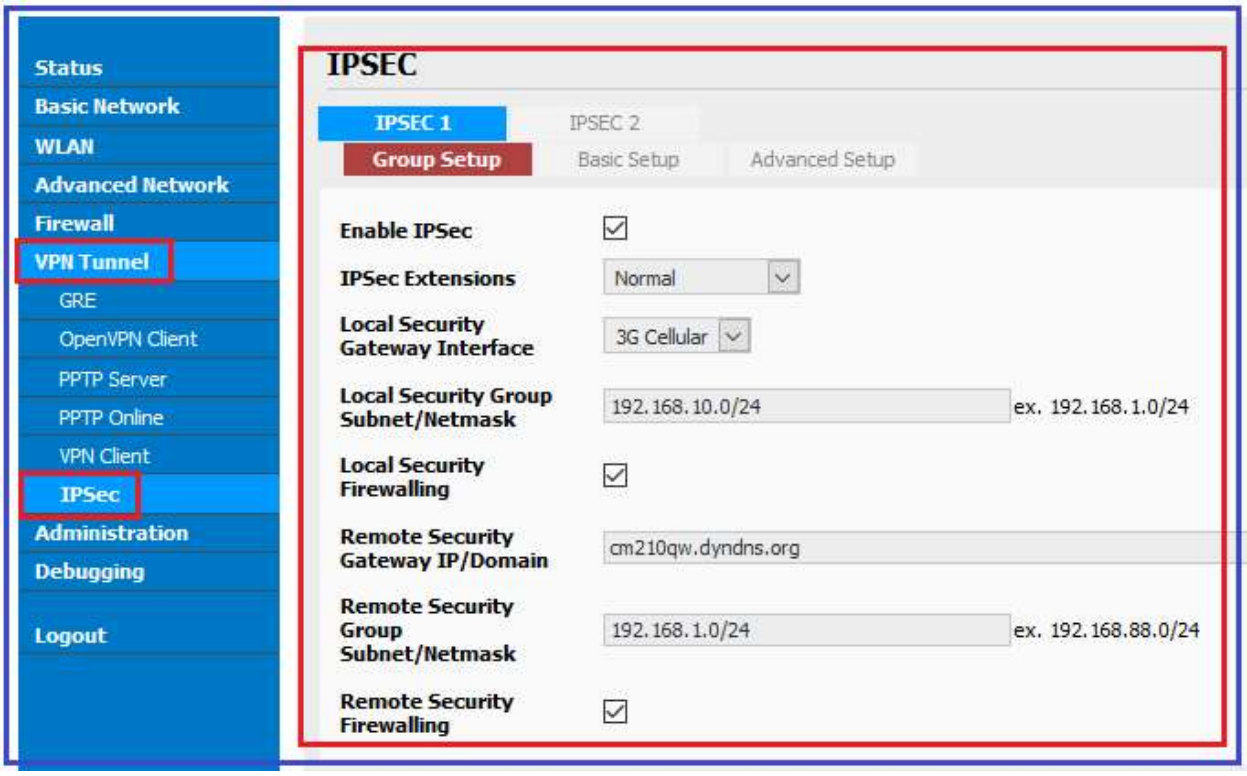
IPSec Custom Options 1: rightid=%any



2. Router#2

❖ Go to VPN Tunnel -> IPSec -> Group Setup

IPsec Mode:	Normal
Local Security Group Subnet/Netmask:	192.168.10.0/24
Local Security Firewalling:	Enabled
Remote Security Gateway:	cm210qw.dyndns.org
Remote Security Firewalling:	192.168.1.0/24
Remote Security Firewalling:	Enabled

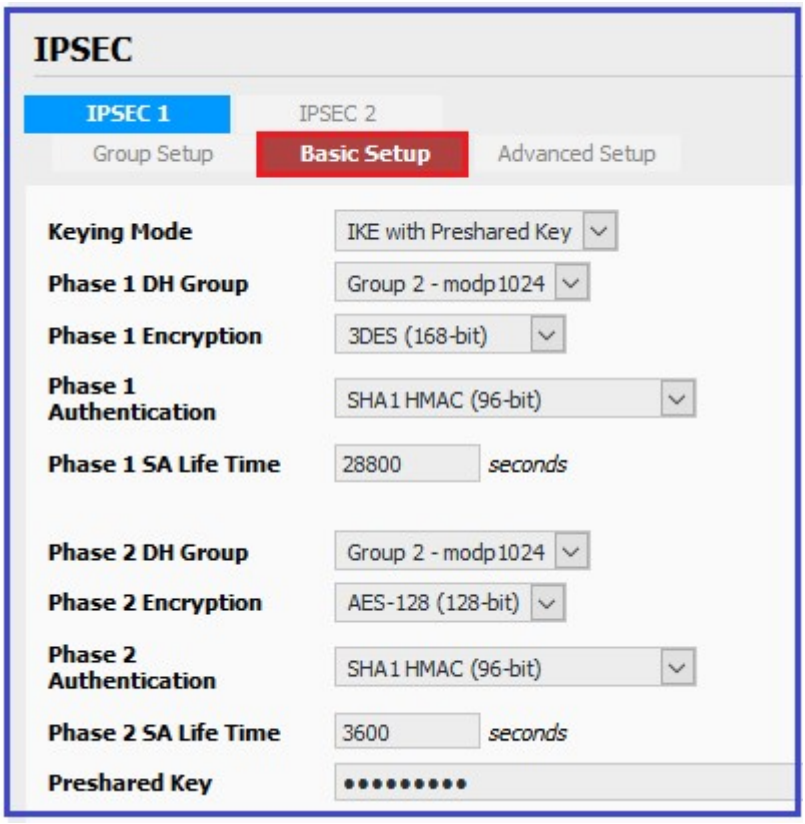


❖ Click on Basic Setup.

Set default Phase1 and Phase2 Groups such as Encryption, Authentication, Lifetime.

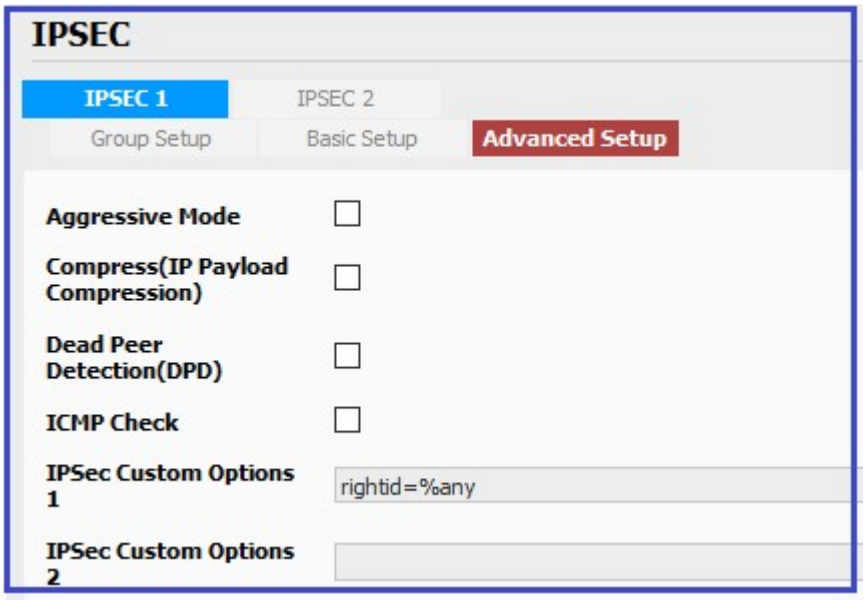
Set Pre-shared key for VPN IPSec.

Note: Pre-shared key should be the same on both routers.



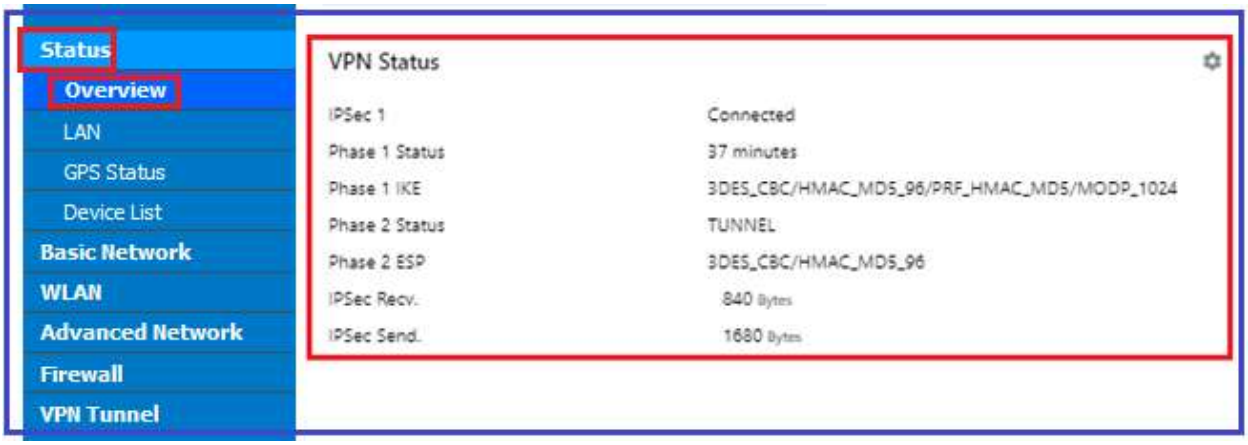
❖ Click on Advanced Setup and set IPSec Custom Options 1

IPSec Custom Options 1: rightid=%any



3. Checking VPN IPSec Status and Testing VPN Tunnel.

❖ Go to Status -> Overview -> VPN Status:



❖ Check Ping connection from PC1 (192.168.1.100) behind the Router1 to PC2 (192.168.10.100) behind the Router2.

```
C:\Users\Tony>ipconfig

Windows IP Configuration


Ethernet adapter Ethernet:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::9c70:98fe:2b67:b3c8%15
   IPv4 Address. . . . . . . . . . . : 192.168.1.100
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.1.1
```

```
C:\Users\Tony>ping 192.168.10.100

Pinging 192.168.10.100 with 32 bytes of data:
Reply from 192.168.10.100: bytes=32 time=70ms TTL=126
Reply from 192.168.10.100: bytes=32 time=63ms TTL=126
Reply from 192.168.10.100: bytes=32 time=73ms TTL=126
Reply from 192.168.10.100: bytes=32 time=92ms TTL=126

Ping statistics for 192.168.10.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 63ms, Maximum = 92ms, Average = 74ms
```

❖ Check Ping connection from PC2 (192.168.10.100) behind the Router2 to PC1 (192.168.1.100) behind the Router1.

```
Ethernet adapter Local Area Connection:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::9571:4168:f214:45c9%15
   IPv4 Address. . . . . . . . . . . : 192.168.10.100
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.10.1
```

```
C:\Users\a>ping 192.168.1.100

Pinging 192.168.1.100 with 32 bytes of data:
Reply from 192.168.1.100: bytes=32 time=185ms TTL=126
Reply from 192.168.1.100: bytes=32 time=158ms TTL=126
Reply from 192.168.1.100: bytes=32 time=99ms TTL=126
Reply from 192.168.1.100: bytes=32 time=371ms TTL=126

Ping statistics for 192.168.1.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 99ms, Maximum = 371ms, Average = 203ms
```