



TP Link VX420 Modem Guide

Created: April 2023



Login to Modem 3

Wi-Fi Setup 4

LAN Setup 6

WAN Setup 7

 DSL..... 7

 Ethernet 9

Port Forward Setup 13

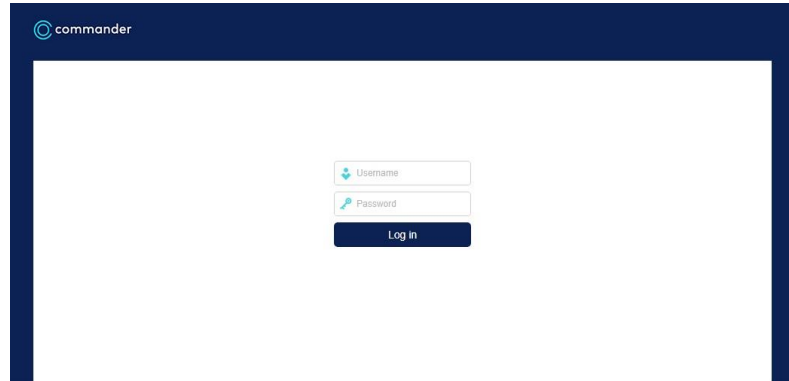
Framed Route Setup 15

IPSec VPN..... 17

Login to Modem

Open a web browser and go to default URL of <https://192.168.1.1>
 You will then be presented with to Login screen.

(If you have changed the IP range you will need to use the new range)



Please enter the login credentials for the device

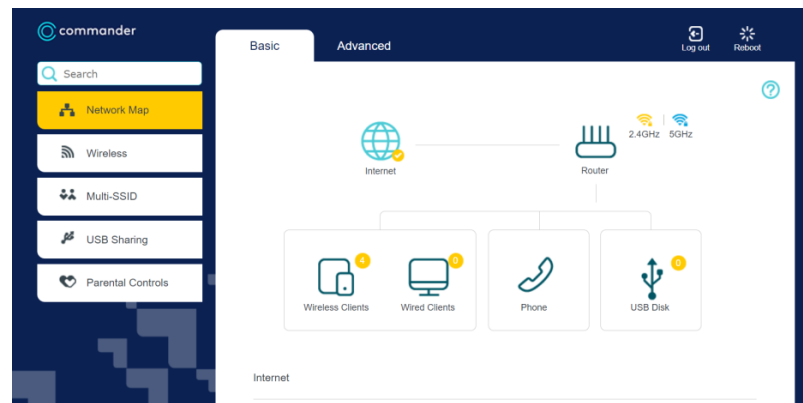
The default credentials are:
username: admin
password: admin@VX420

Click on **Log in**.

(If you have changed the credentials you will need to use the new details)

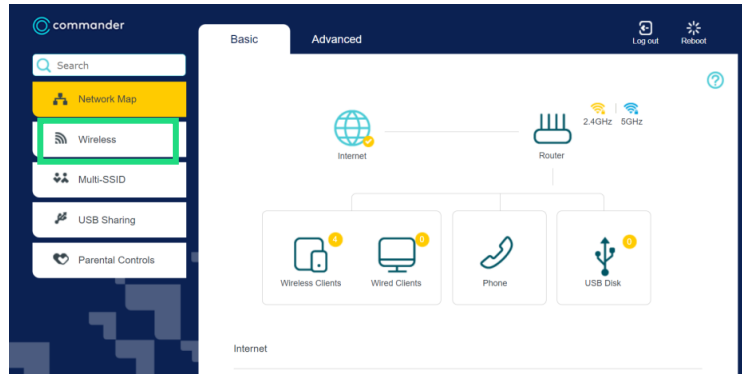


You will be directed to the home page.

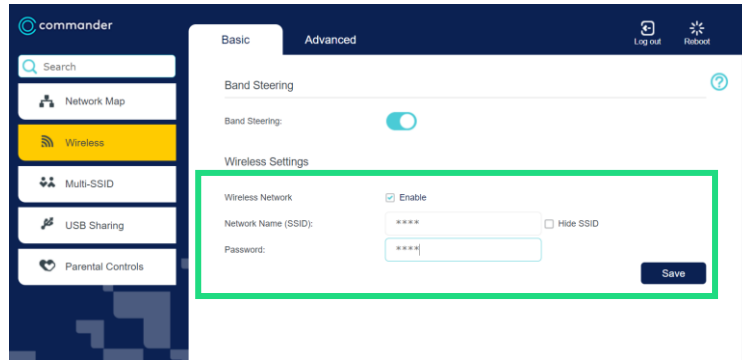


Wi-Fi Setup

On the navigation menu on the left, click **Wireless**.

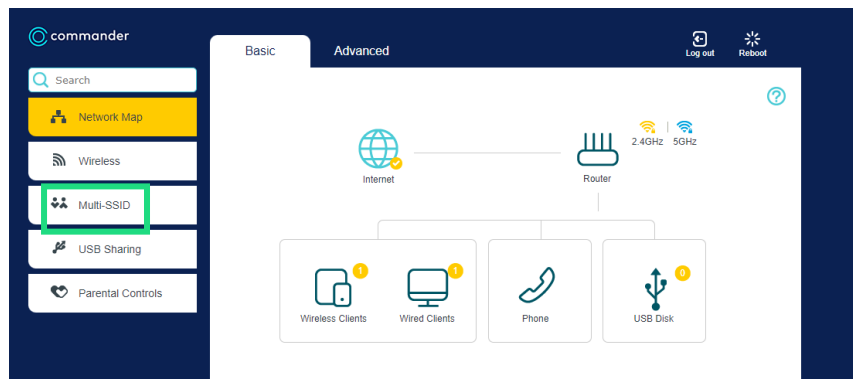


If you would like to update the SSID and password, enter in new details and click **Save**.

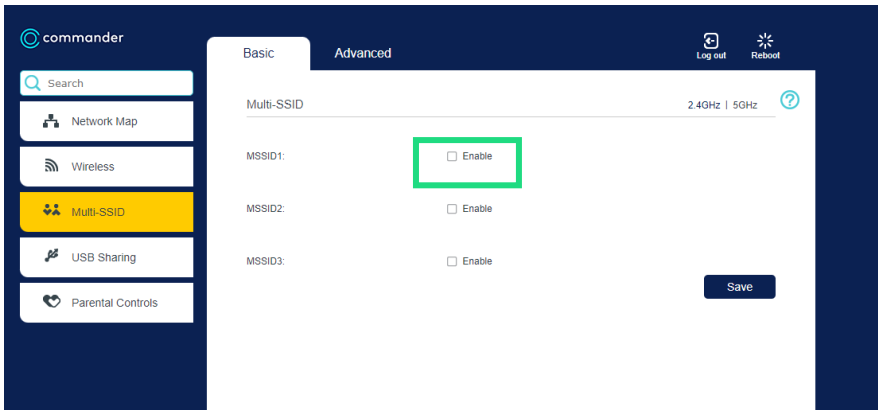


If the Hide SSID is ticked, the network name will not be visible to any devices and will need to be manually configured to each device

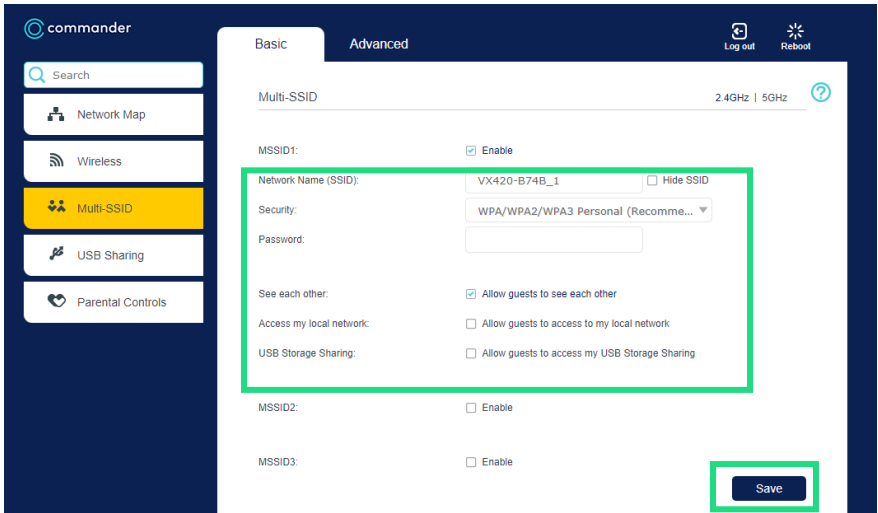
To add additional SSIDs click on **Multi-SSID**.



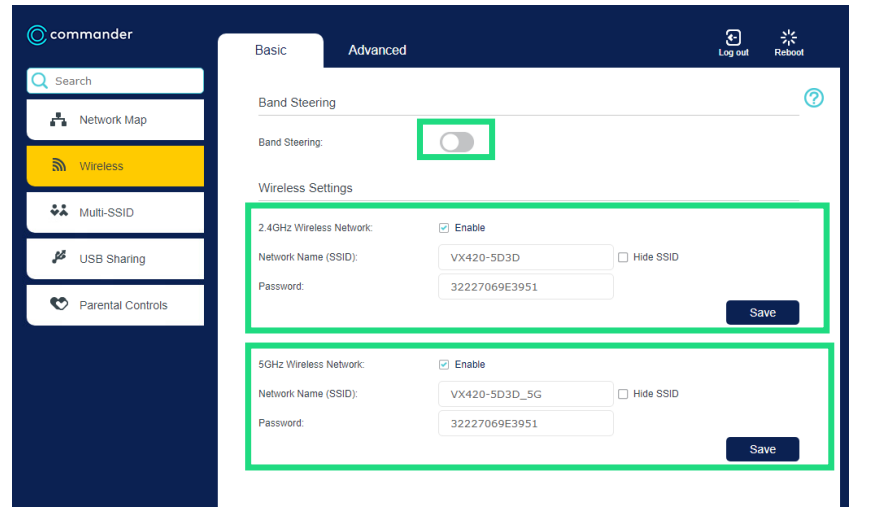
Tick the **enable** check box.



We recommend that you enter the same settings as the original SSID, simply making changes to the Network Name (SSID) and Password. If the band steering has been disabled, you will need to choose between 2.4/.25Ghz networks. Click **Save**.

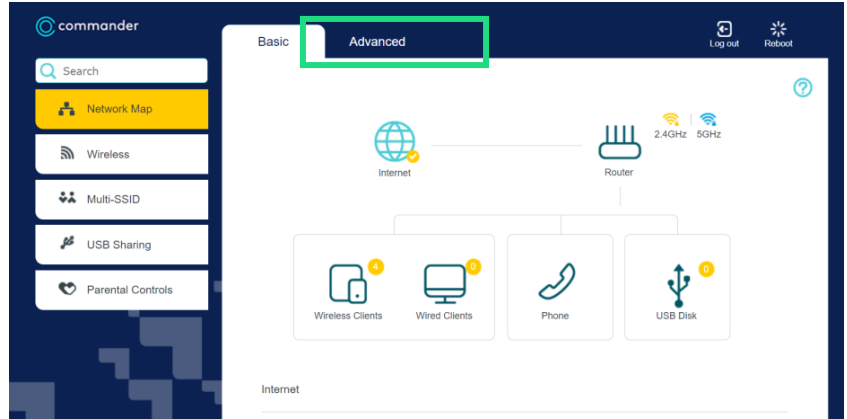


To turn off band steering, toggle the switch to grey. You can select either 2.4Ghz or 5Ghz, enter in the details and click **Save**.

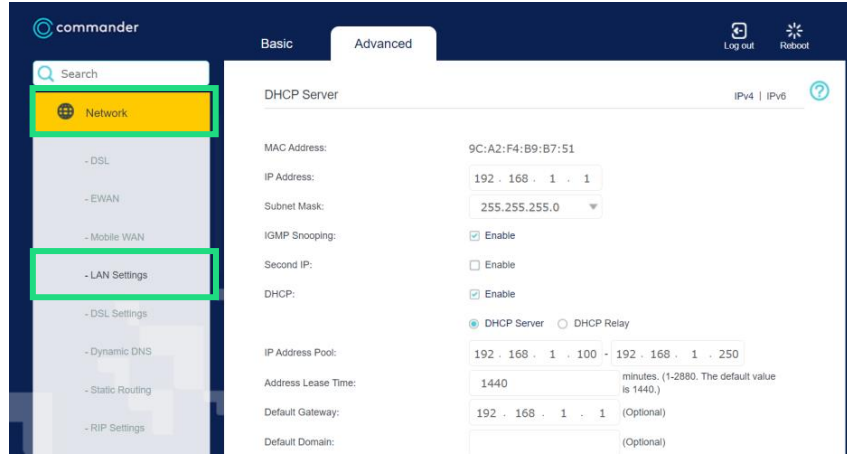


LAN Setup

Click on **Advanced** in the top tabs.

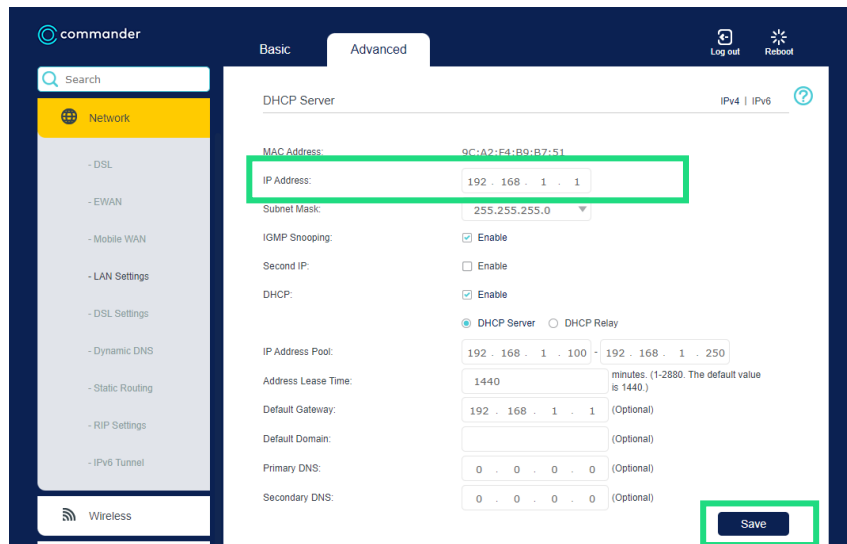


On the navigation menu on the left select **Network** and then select **LAN Settings**.



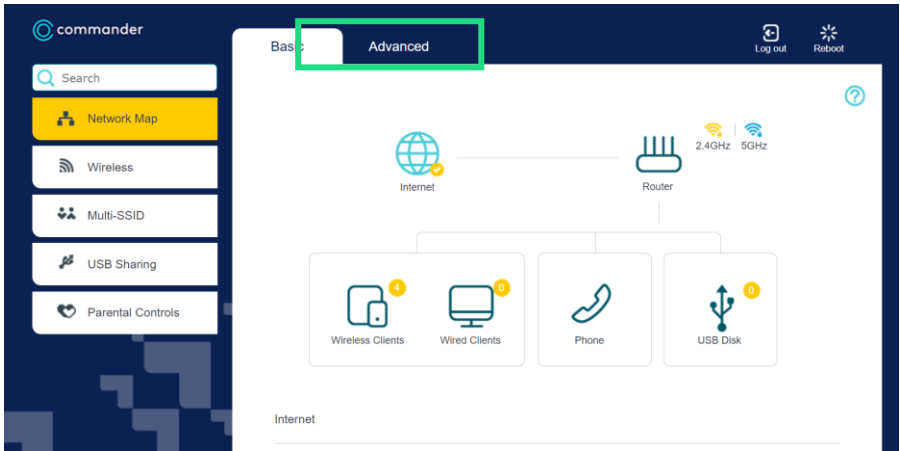
Update the IP address here, and then click on **Save**.

The below IP Address pool will auto adjust.

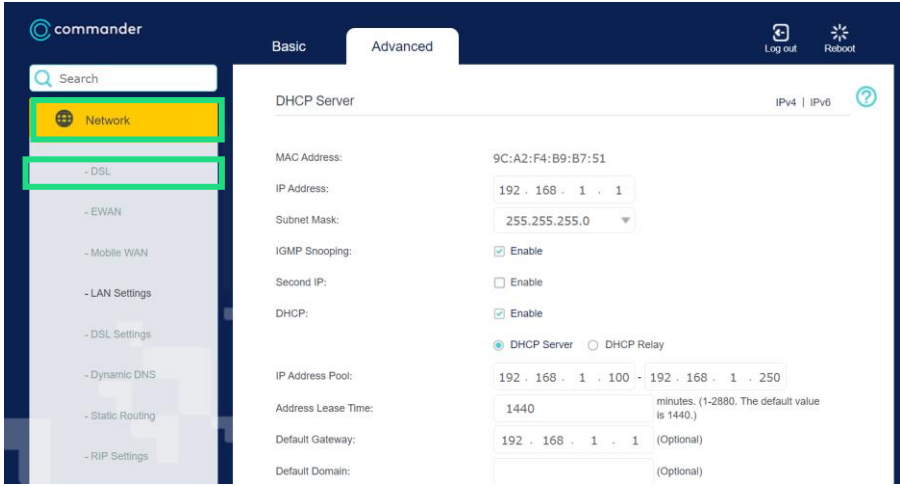


WAN Setup DSL

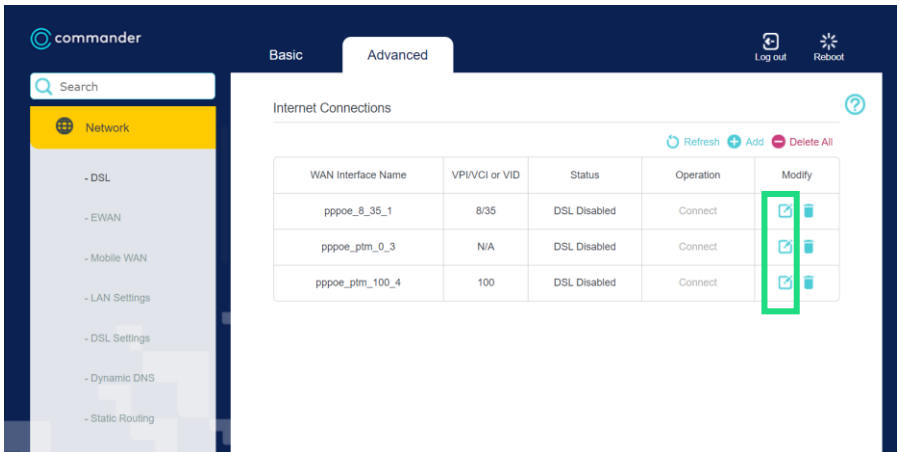
Click on **Advanced** in the top tabs.





On the navigation menu on the left select **Network** and then select **DSL**.



On the right hand side, you will see the DSL diallers please click the notepad of the dialler you wish to change.



After selecting your dialler, edit the username and password
Click **OK** to save any changes.

pppoe_ptm_100_3	100	DSL Disabled	Connect	 
-----------------	-----	--------------	---------	---


Internet Connection Setup


DSL Modulation Type: VDSL

VLAN ID: 100

Internet Connection Type: PPPoE

Username:

Password: 

Confirm Password: 

Connection Mode: Auto On Demand Manually

Authentication Type:


IPv4: Enable

Default Gateway:

IPv6: Enable

Addressing Type:

IPv6 Default Gateway:

 Advanced

MAC Clone

Do NOT Clone MAC Address

Clone Current Computer MAC Address

Use Custom MAC Address

Interface Binding

LAN1 LAN2 LAN3 LAN4

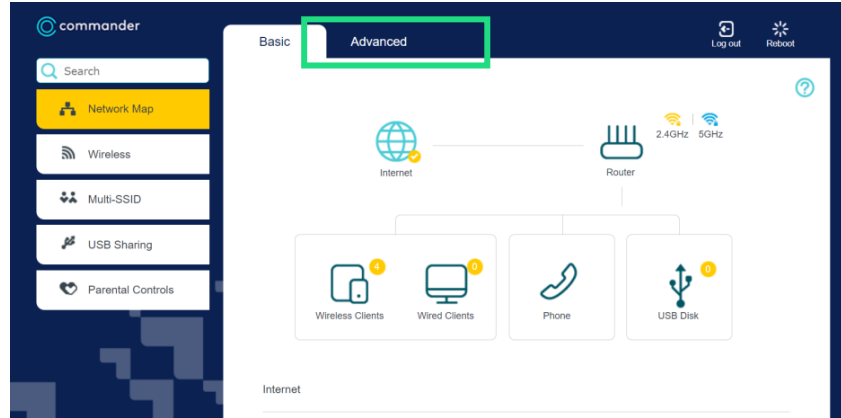
Wi-Fi_2.4G

Wi-Fi_5G

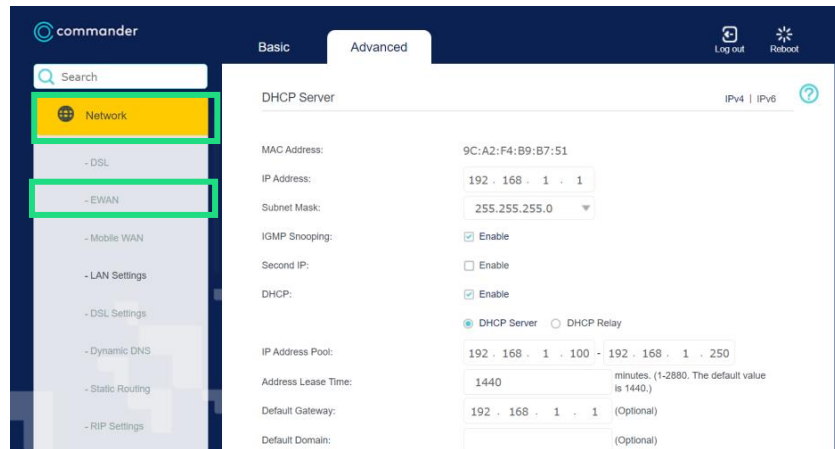
VoIP CWMP

Ethernet

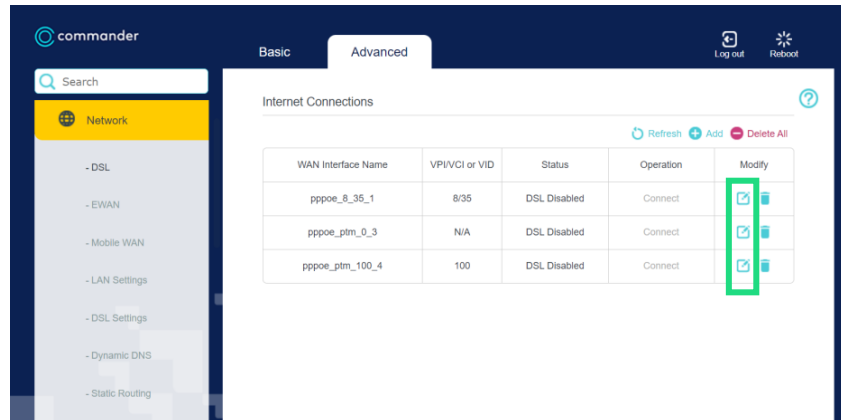
Click on **Advanced** in the top tabs.



On the navigation menu on the left select **Network** and then select **EWAN**.








On the right-hand side, you will see the WAN diallers please click the notepad of the dialler you wish to change.



After selecting your dialler, edit the username and password
Click **OK** to save any changes.

Please do not change anything else on the page.

pppoe_100_4	100	Connected	Disconnect	 
Internet Connection Type:	PPPoE			
VLAN ID:	<input checked="" type="checkbox"/> Enable			
VLAN ID (1-4094):	100			
Username:	Customer Username			
Password:	Customer Password 			
Confirm Password:	Customer Password 			
Connection Mode:	<input checked="" type="radio"/> Auto <input type="radio"/> On Demand <input type="radio"/> Manually			
Authentication Type:	AUTO_AUTH			
IPv4:	<input checked="" type="checkbox"/> Enable			
Default Gateway:	pppoe_100_4			
IPv6:	<input checked="" type="checkbox"/> Enable			
Addressing Type:	AUTO			
IPv6 Gateway:	pppoe_100_4			
 Advanced				
MAC Clone				
<input checked="" type="radio"/> Do NOT Clone MAC Address <input type="radio"/> Clone Current Computer MAC Address <input type="radio"/> Use Custom MAC Address				
Interface Binding				
<input type="checkbox"/> LAN1 <input type="checkbox"/> LAN2 <input type="checkbox"/> LAN3 <input type="checkbox"/> LAN4 <input type="checkbox"/> Wi-Fi_2.4G <input type="checkbox"/> Wi-Fi_5G <input type="checkbox"/> VoIP <input type="checkbox"/> CWMP				
				<div style="border: 2px solid green; padding: 5px; display: inline-block;"> <input type="button" value="Cancel"/> <input type="button" value="OK"/> </div>

To add a new WAN interface, click **Add**.

Internet Setup ?

Refresh **Add** Delete All

WAN Interface Name	VLAN ID	Status	Operation	Modify
pppoe_0_1	N/A	Disconnected	Connect	
pppoe_100_4	100	Connected	Disconnect	

Depending on the internet connection type (dropdown)

Dynamic IP = Automatic IP e-WAN

Static IP = Assigned IP e-WAN

PPPOE= PPP Username & Password

Bridge= Bridge connection **(DO NOT USE)**

Click **OK** to save any changes.

Internet Setup ?

Refresh **Add** Delete All

WAN Interface Name	VLAN ID	Status	Operation	Modify
--	--	--	--	--

Internet Connection Type: **Dynamic IP**

VLAN ID: Enable

IPv4: Enable

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Gateway: 0.0.0.0

Default Gateway: **pppoe_100_4**

IPv6: Enable

Advanced

MAC Clone

Do NOT Clone MAC Address

Clone Current Computer MAC Address

Use Custom MAC Address

Interface Binding

LAN1 LAN2 LAN3 LAN4

Wi-Fi_2.4G

Wi-Fi_5G

VoIP CWMP

Cancel **OK**

To update VLAN ID, click enable.

All Commander services are tagged VLAN100.

Internet Setup 🔄

Refresh + Add - Delete All

WAN Interface Name	VLAN ID	Status	Operation	Modify
--	--	--	--	--

Internet Connection Type: Dynamic IP

VLAN ID: Enable

IPv4: Enable

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Gateway: 0.0.0.0

Default Gateway: pppoe_100_4

IPv6: Enable

🔍 Advanced

MAC Clone

Do NOT Clone MAC Address

Clone Current Computer MAC Address

Use Custom MAC Address

Interface Binding

LAN1 LAN2 LAN3 LAN4

Wi-Fi_2.4G

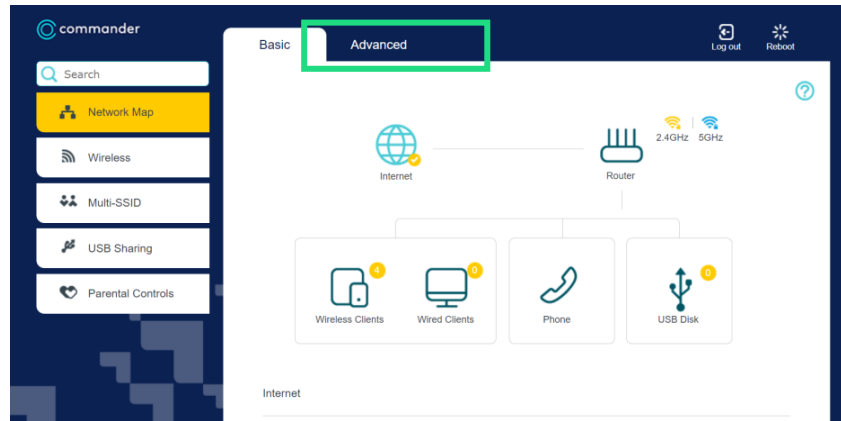
Wi-Fi_5G

VoIP CWMP

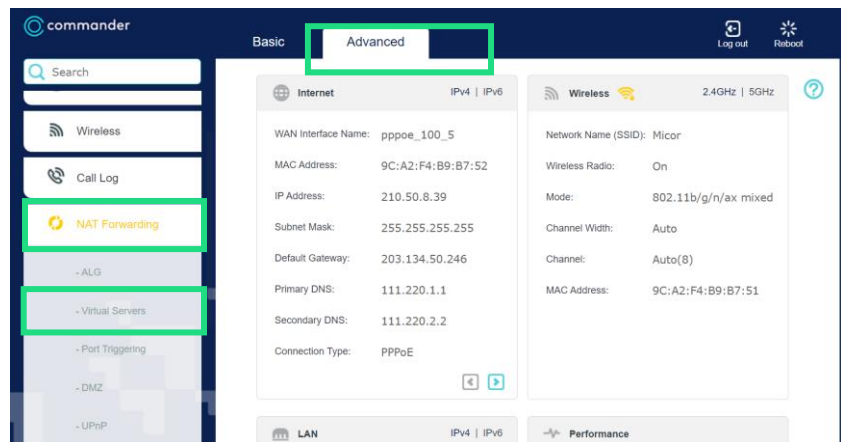
Cancel OK

Port Forward Setup

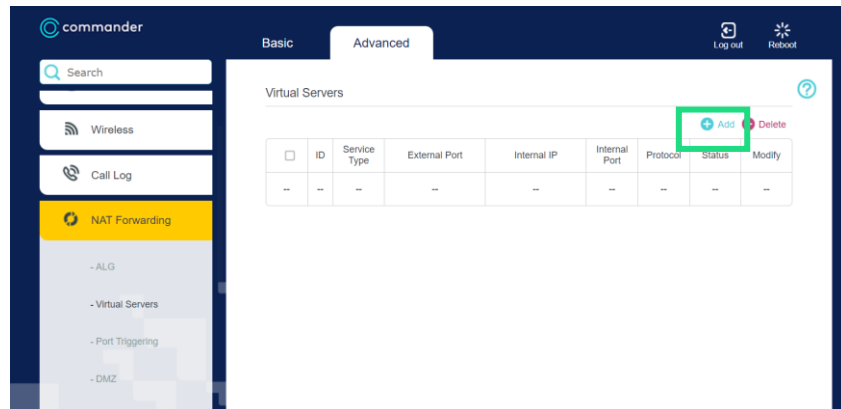
Click on **Advanced** in the top tabs.



On the navigation menu on the left select **NAT Forwarding**, then select **Virtual Servers**.



To add a port forward click **Add**.



Select the **Interface Name** from the dropdown
See *Matrix below image*

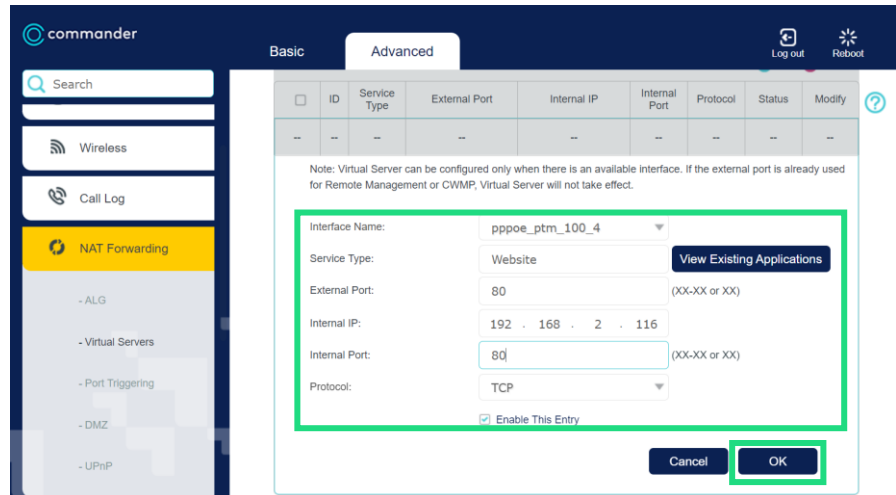
Enter the Application name, for example “Website” in the **Service Type**

Enter the WAN port number in the **External port** field

Enter the computer IP address in the **Internal IP** field

Enter the LAN port number in the **Internal Port** field

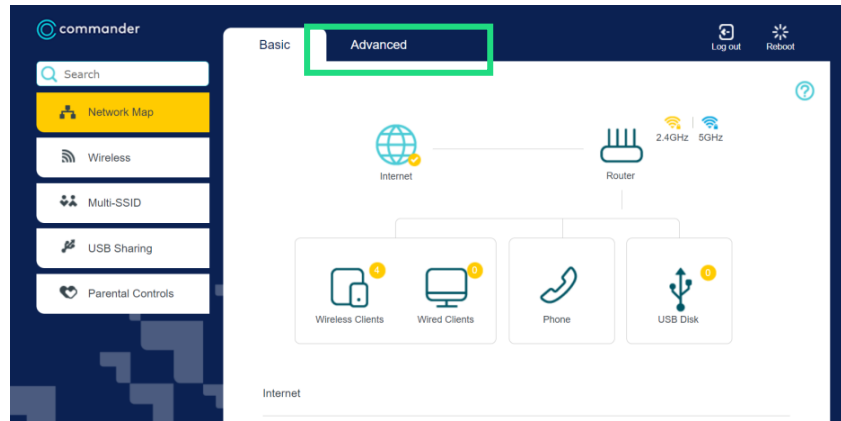
Click **OK** to save any changes.



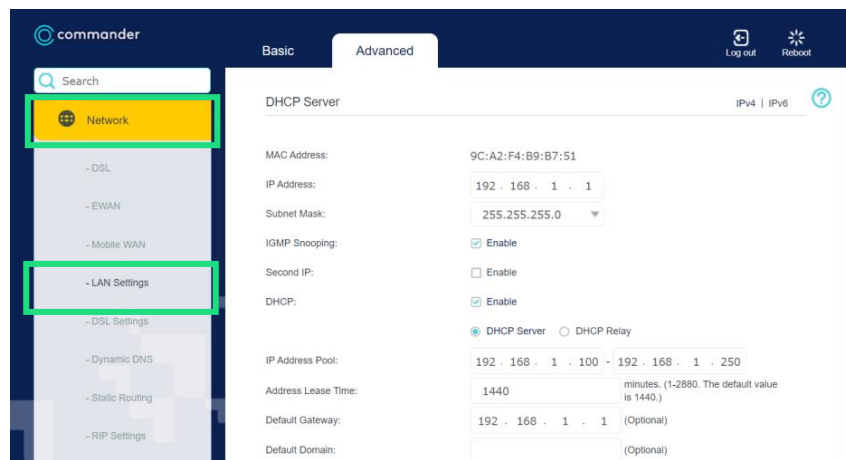
Interface Name	Used for
LTE	3G/4G
pppoe_8_35_1	ADSL
pppoe_ptm_100_4	VDSL tagged
ipoe_ptm_0_6_d	VDSL IPoE
pppoe_0_2	E-WAN Untagged
pppoe_100_5	E-WAN Tagged
ipoe_0_7_d	E-WAN IPoE

Framed Route Setup

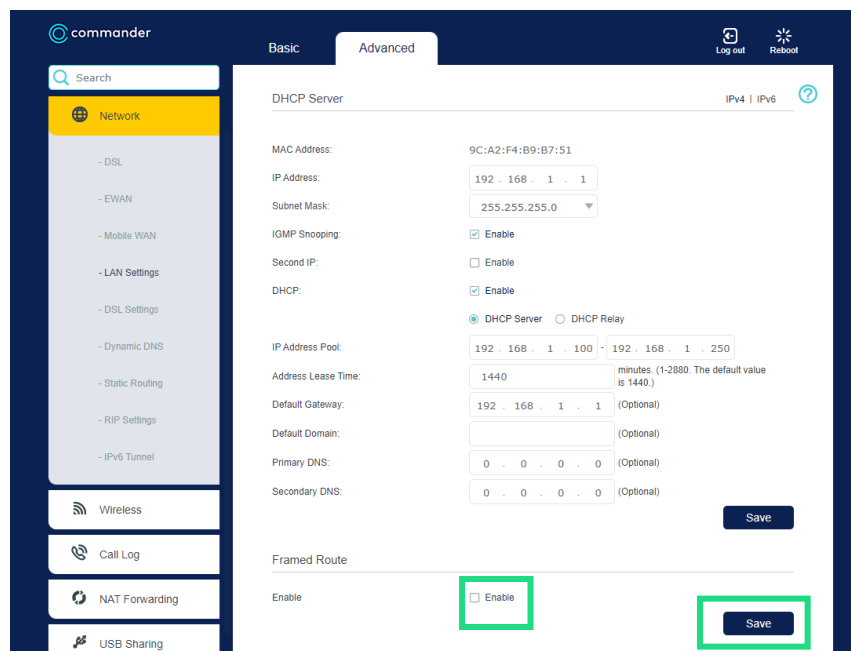
Click on **Advanced** in the top tabs.



On the navigation menu on the left select **Network**, then select **Lan Settings**.



Check the enable box and click **Save**.



Enter in IP Address and the Subnet Mask details provided by Commander and click Save.

Framed Route

Enable Enable

IP Address: 202 . . 29 .

Subnet Mask: 255 . 255 . 255 . 252

Start IP Address: 202 . . 29 .

End IP Address: 202 . . 29 .

Bound Lan Port : LAN1

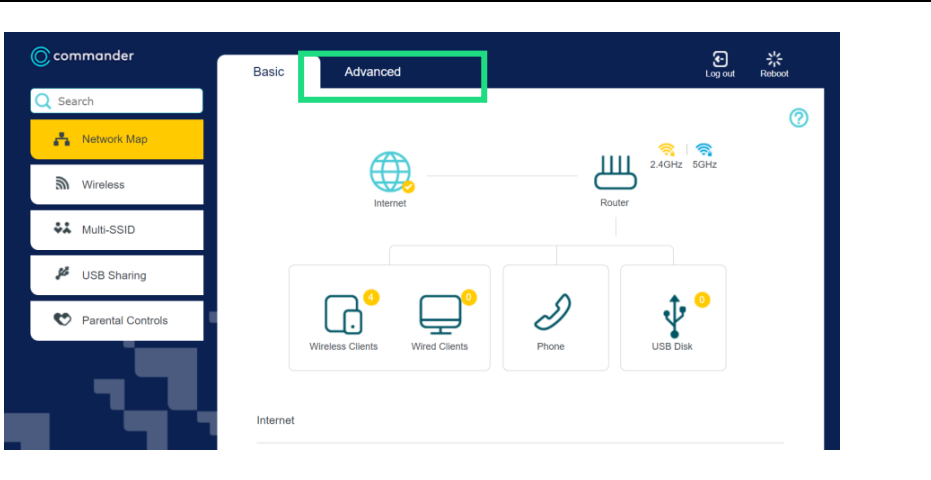
Please select the LAN port you wish to the Framed Route on

Save

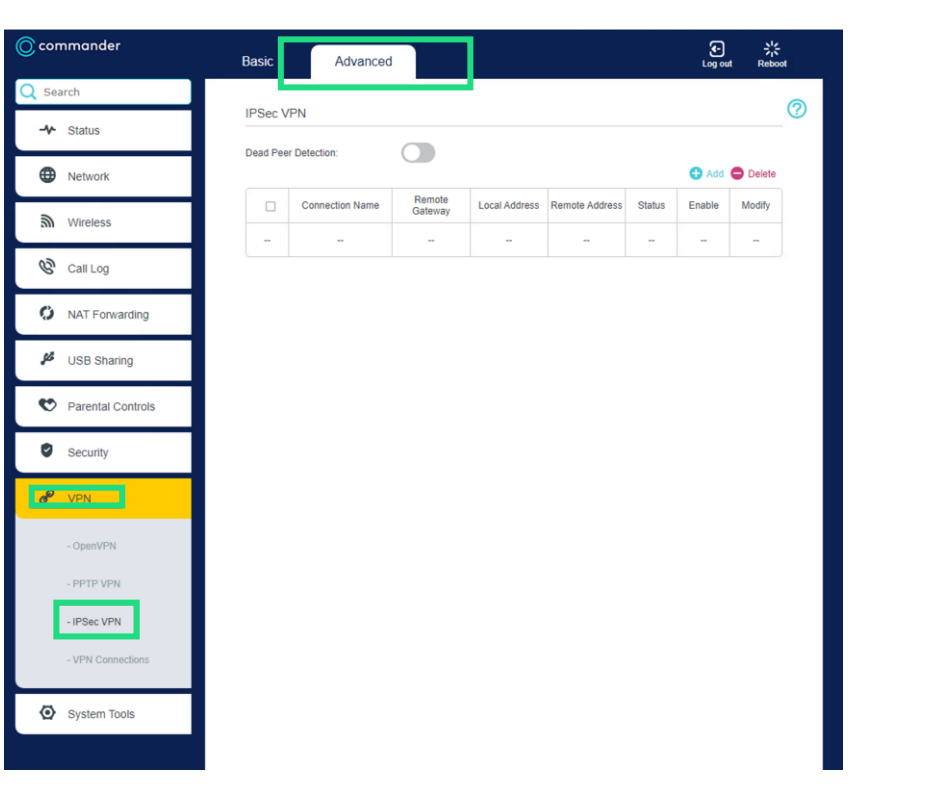
DHCP Address Allocation

IPSec VPN

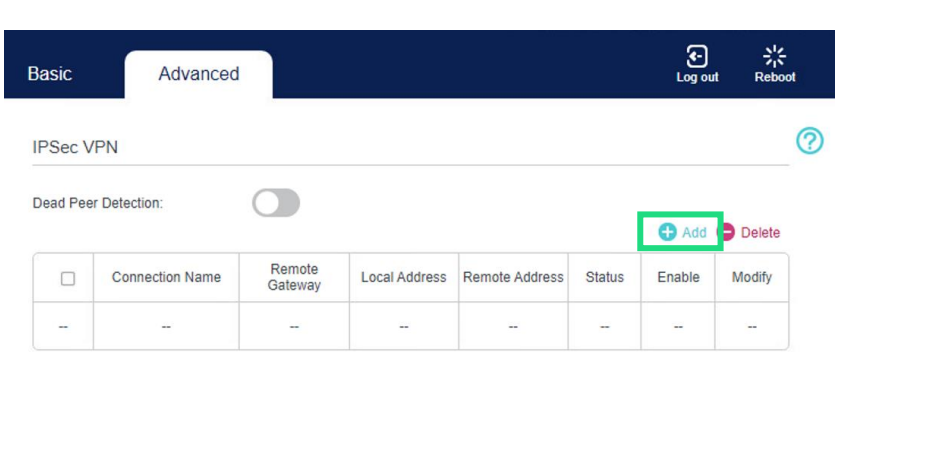
Click on **Advanced** in the top tabs.



On the navigation menu on the left select **VPN**, then select **IPSec**.



To setup an IPSec tunnel, click **Add**.



Enter in the details, (example shown) and click OK.

Please note: The local address is the device you are configuring, and the remote address is the site you wish to access.

Dead Peer Detection:

+ Add - Delete

<input type="checkbox"/>	Connection Name	Remote Gateway	Local Address	Remote Address	Status	Enable	Modify
--	--	--	--	--	--	--	--

IPSec Connection Name:

Remote IPSec Gateway (URL): **Other Site WAN IP**

Tunnel access from local IP addresses:

IP Address for VPN: **Customer LAN IP**

Subnet Mask:

Tunnel access from remote IP addresses:

IP Address for VPN: **Other Site LAN IP**

Subnet Mask:

Key Exchange Method:

Authentication Method:

Pre-Shared Key:

Password For VPN should be same both Sites

Perfect Forward Secrecy:

Advanced

To toggle dead peer detection, click on the button shown.

IPSec VPN ?

Dead Peer Detection:

+ Add - Delete

<input type="checkbox"/>	Connection Name	Remote Gateway	Local Address	Remote Address	Status	Enable	Modify
<input type="checkbox"/>	Intranet	100.80.0.9	192.168.4.1	192.168.2.1	Down		

The modem will automatically create the Access Control List (ACL) rule to allow the VPN to work once setup on both ends. The Status will change to "Online" and you will be able to ping the other LAN computer.

(You will not be able to ping the LAN gateway 192.168.2.1 when IP Sec is set up)

To delete the ACL rule you first select the VPN you wish to select and click **Delete**.

We recommend you reboot the modem.

Basic Advanced Log out Reboot

IPSec VPN ?

Dead Peer Detection:

+ Add - Delete

<input type="checkbox"/>	Connection Name	Remote Gateway	Local Address	Remote Address	Status	Enable	Modify
<input checked="" type="checkbox"/>	Intranet	100.80.0.9	192.168.4.1	192.168.2.1	Down	<input type="checkbox"/>	

Please note if you are configuring VX420 to VX420 you will need to do this on both devices' just changing around the LAN IP setting.

Support Contact Details



1300 364 598 Option 1, Option 3



service.escalations@commander.com.au



commander.com.au