https://wiki.teltonika-networks.com/view/VLAN_Set_Up

VLAN Set Up

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Introduction

This article contains instructions o how to set up VLAN using a Teltonika-Networks device. Following this example, you will be able to create two different networks (network interfaces) and limit speed on one of the interfaces (or both of them).

For this example, I will be using the RUTX11 device.

Creating VLAN

To create a VLAN follow all the steps below:

- Access your device WebUI by typing your Routers Private or Public IP in your browser (my router has private IP 192.168.1.1)
- Next, navigate to **Network → Vlan → Port Based**
- Now you'll need to add a new VLAN and change the first VLAN (**ID:1**) configuration. So basically you need to choose which port you will use for yourself and turn that port Off in VLAN (**ID:1**). In my example, I've chosen a second Ethernet port for myself.

I've turned **off** in first **VLAN's LAN 2** port and in my new **VLAN 3** I've turned **on** (by choosing **Untagged**) the **LAN2** port:

- Press **Save & Apply**

Creating Interface's

- Now navigate to **Network → Interfaces**
- Add a new instance, by entering any interface name and pressing **ADD** button:

- Now a new window for your interface configuration will pop up:
    1. For protocol select "**Static**"

2. For IPv4 type IP of your choice with a different subnet. For example, if you are using default router configurations your device should have IP: **192.168.1.1** and netmask: **255.255.255.0**, for this example we can change only one number, type: **192.168.2.1**
3. For Netmask, you can leave it default: **255.255.255.0**
4. Press the button "**SETUP DHCP SERVER**"
5. And leave everything else default, your configuration should look like this:

- Next, go to the "**PHYSICAL SETTINGS**"
- Select your newly created VLAN in the Interface drop-down (it should be named **eth0.3**):

- Press "the **SAVE & APPLY**" button
- If you've configured everything correctly your new Interface should be running like in my case:

Testing new VLAN

Now by plugging my PC into the Ethernet cable with the RUTX11 LAN2 port you need to check if everything is working correctly. To do that you'll need:

- On your Windows machine open **CMD** (you can do it by typing in Windows search "**CMD**" and press **Enter**):

- In CMD type the command "**ipconfig**", press **Enter** and search for **Ethernet adapter** and check if you got the **IP** address like I did (**192.168.2.x**):

If you did, then you've done everything correctly, if you didn't go through all set up again and check if you have missed anything.

Setting up data limit on the interface

This step is optional, complete this if you need to limit internet data on one of your interfaces (or both).

You'll need to create a **QoS** configuration, for this you'll need to download the **QoS** package in **Services → Package Manager → Packages** and limit the internet speed for an interface that you want to be limited.

Note: If you set **QoS** for the **LAN** interface, the direction logic is naturally inverted. Egress means "from router towards **LAN**" = in practice "download from **WAN** forwarded to **LAN**".

For more detailed information about how to configure QoS and how it works, you can read it here.