



L2 Managed Switch

Working with VLAN

1. Working with VLAN (GUI)

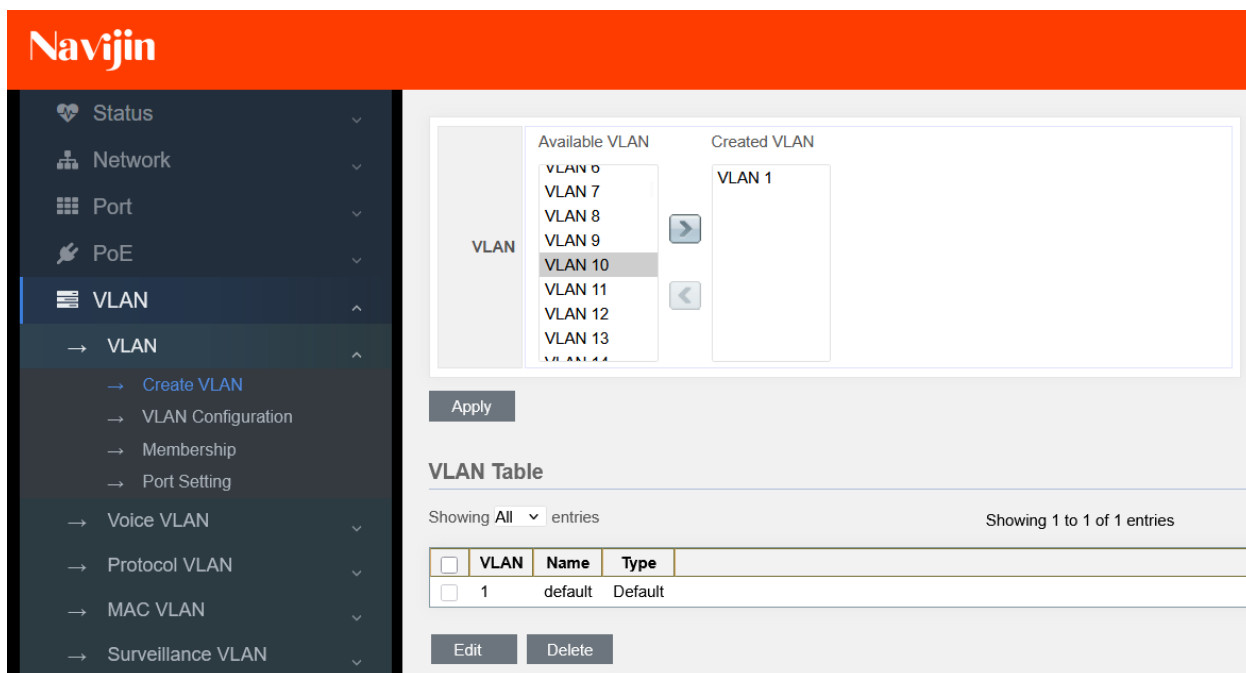
1.1. Introduction to VLAN

VLAN (Virtual Local Area Network) is a method of segmenting a physical network into multiple logical networks. VLANs improve security, manageability, and network performance by isolating groups of devices.

1.2. Creating a VLAN (Web Interface)

1.2.1. Log in to the switch web interface.

1.2.2. Go to **VLAN** → **Create VLAN**.



1.2.3. In the new window, you'll see two columns:

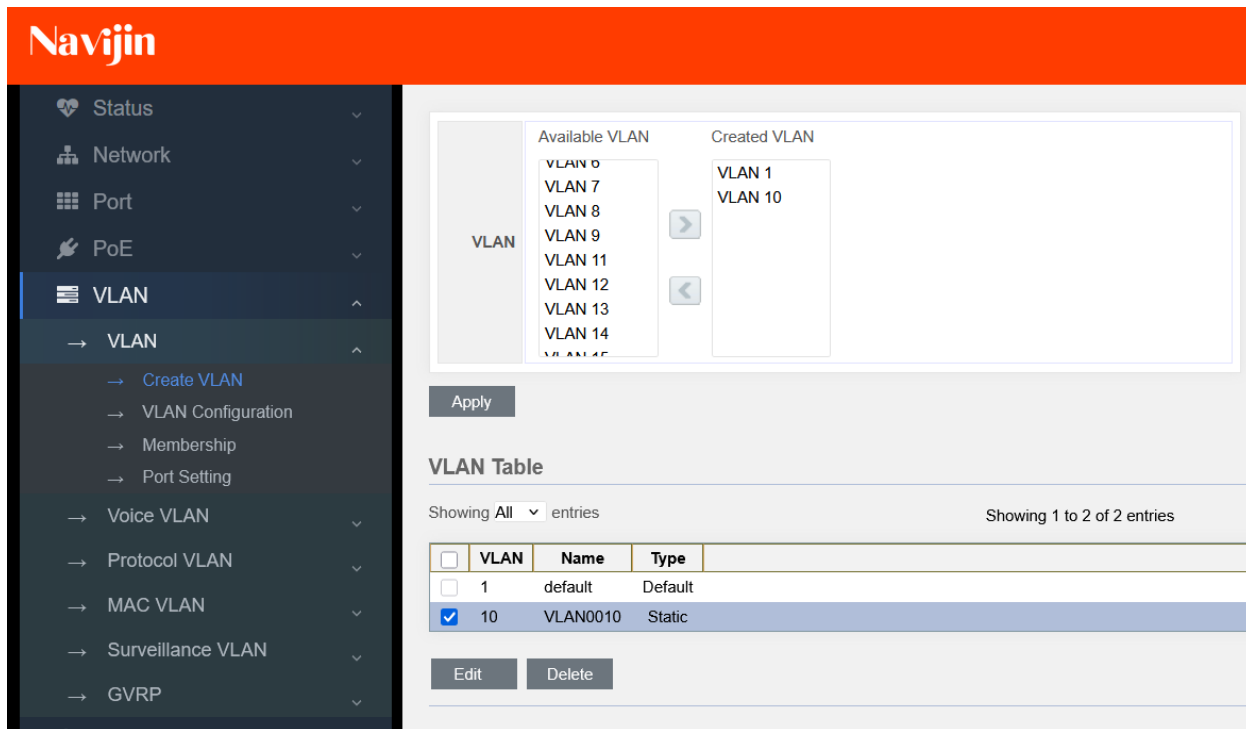
1.2.3.1. **Available VLAN** — VLANs available to create;

1.2.3.2. **Created VLAN** — VLANs that are already created.

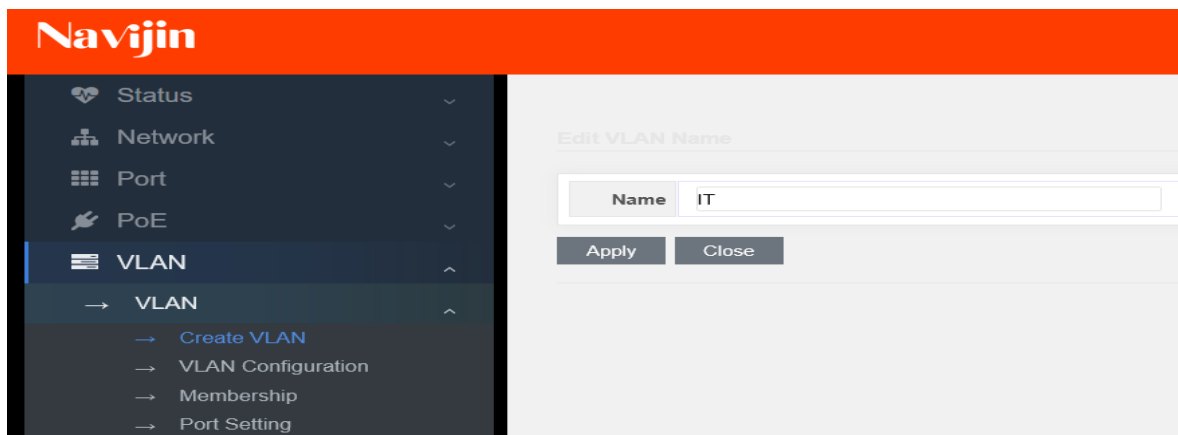
1.2.4. By default, all ports are in VLAN 1.

1.2.5. To create VLAN 10:

- 1.2.5.1. Find VLAN 10 in the **Available VLAN** column;
- 1.2.5.2. Move it to the **Created VLAN** column;
- 1.2.5.3. Click **Apply**.



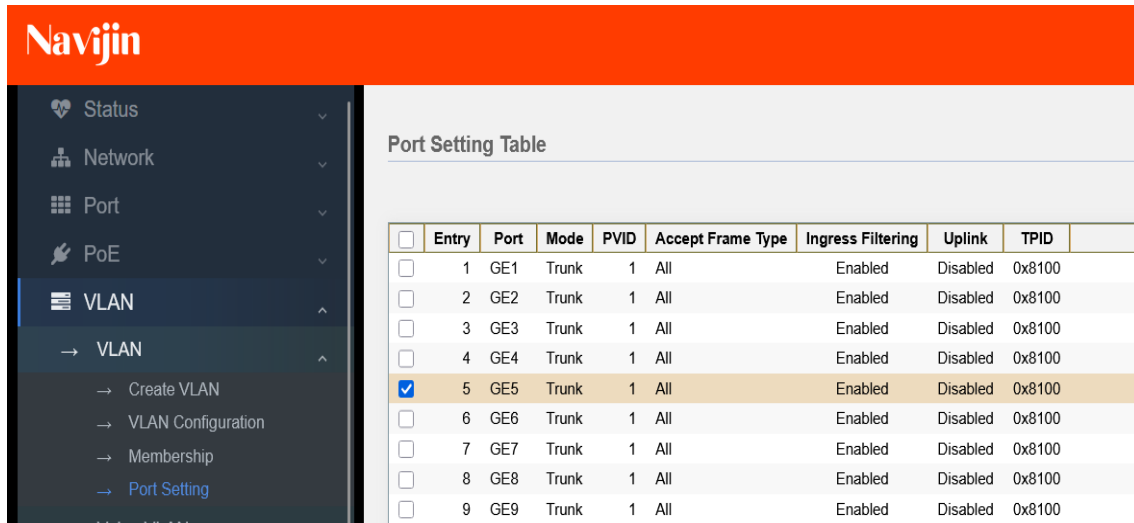
- 1.2.6. In the **VLAN Table**, VLAN 10 will now be listed.
- 1.2.7. To assign a name to VLAN 10:
 - 1.2.7.1. Select VLAN 10;
 - 1.2.7.2. Click **Edit**;
 - 1.2.7.3. Enter a name, e.g., IT, and save.



1.3. Assigning a VLAN to a Port (Access Mode)

1.3.1. Go to **VLAN** → **Port Setting**.

1.3.2. Find the desired port, for example **GE5**, and click **Edit**.



<input type="checkbox"/>	Entry	Port	Mode	PVID	Accept Frame Type	Ingress Filtering	Uplink	TPID
<input type="checkbox"/>	1	GE1	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	2	GE2	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	3	GE3	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	4	GE4	Trunk	1	All	Enabled	Disabled	0x8100
<input checked="" type="checkbox"/>	5	GE5	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	6	GE6	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	7	GE7	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	8	GE8	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	9	GE9	Trunk	1	All	Enabled	Disabled	0x8100

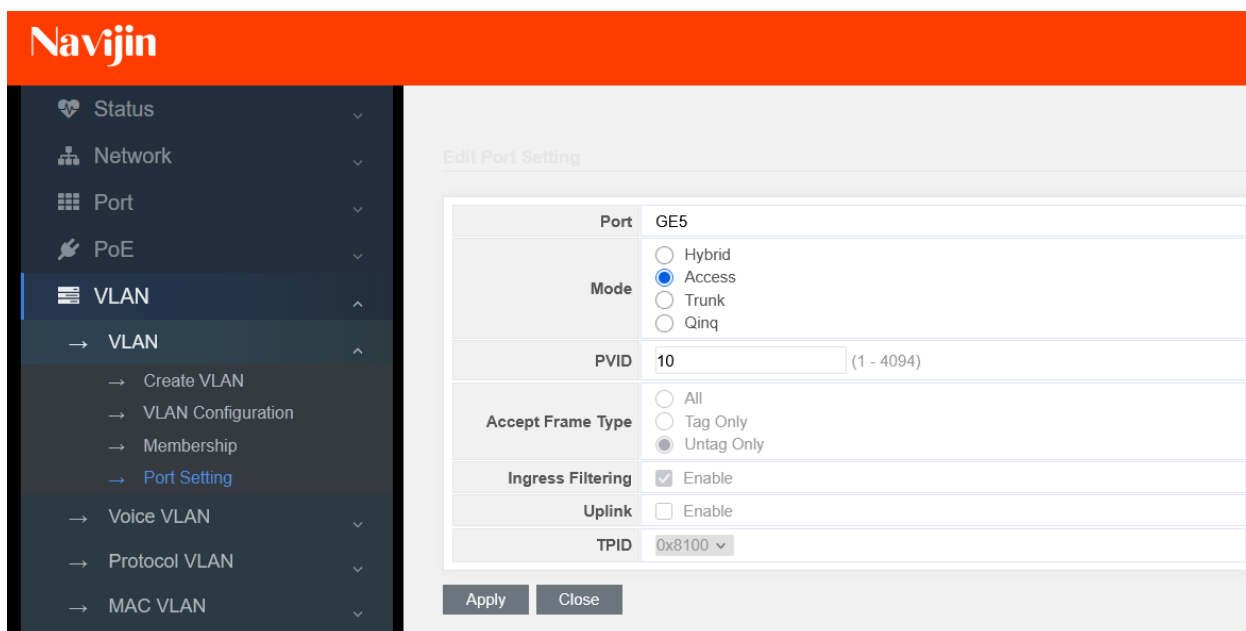
1.3.3. In the window that opens:

1.3.3.1. Set **Mode** to **Access**;

1.3.3.2. In the **PVID** field, enter 10 instead of 1.

1.3.4. Click **Apply**.

1.3.5. Now port GE5 is assigned to VLAN 10.



Navijin

Status

Network

Port

PoE

VLAN

→ VLAN

→ Create VLAN

→ VLAN Configuration

→ Membership

→ Port Setting

→ Voice VLAN

→ Protocol VLAN

→ MAC VLAN

Edit Port Setting

Port: GE5

Mode: Hybrid Access Trunk QinQ

PVID: 10 (1 - 4094)

Accept Frame Type: All Tag Only Untag Only

Ingress Filtering: Enable

Uplink: Enable

TPID: 0x8100

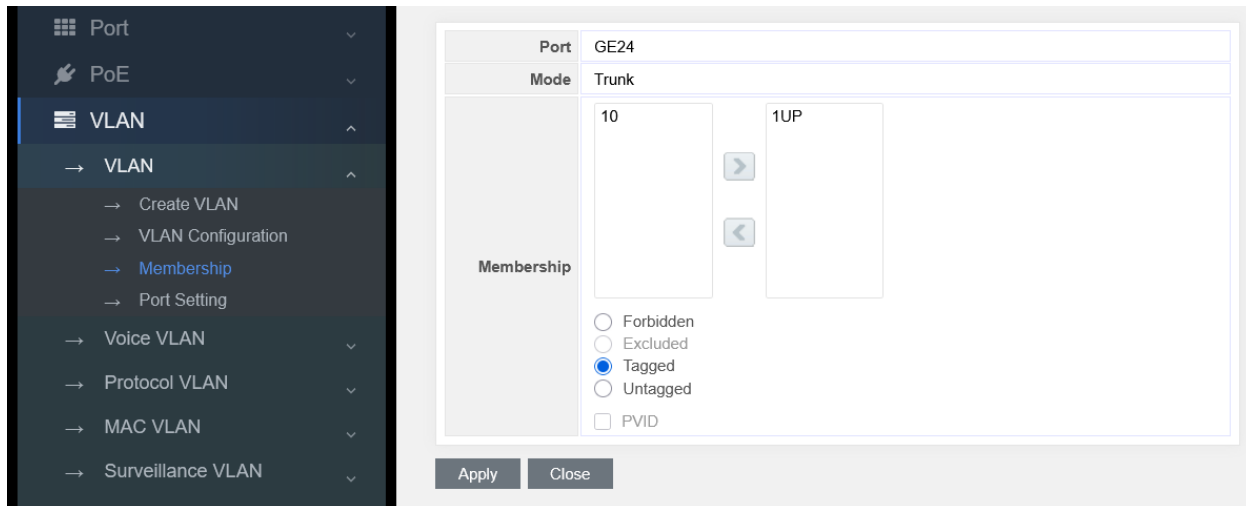
Apply Close

1.4. Setting Up a Trunk Port

By default, all ports on the L2 switch are in trunk mode. To allow VLAN 10 on a trunk port:

1.4.1. Go to **VLAN** → **Membership**.

1.4.2. Find port **GE24** and click **Edi**



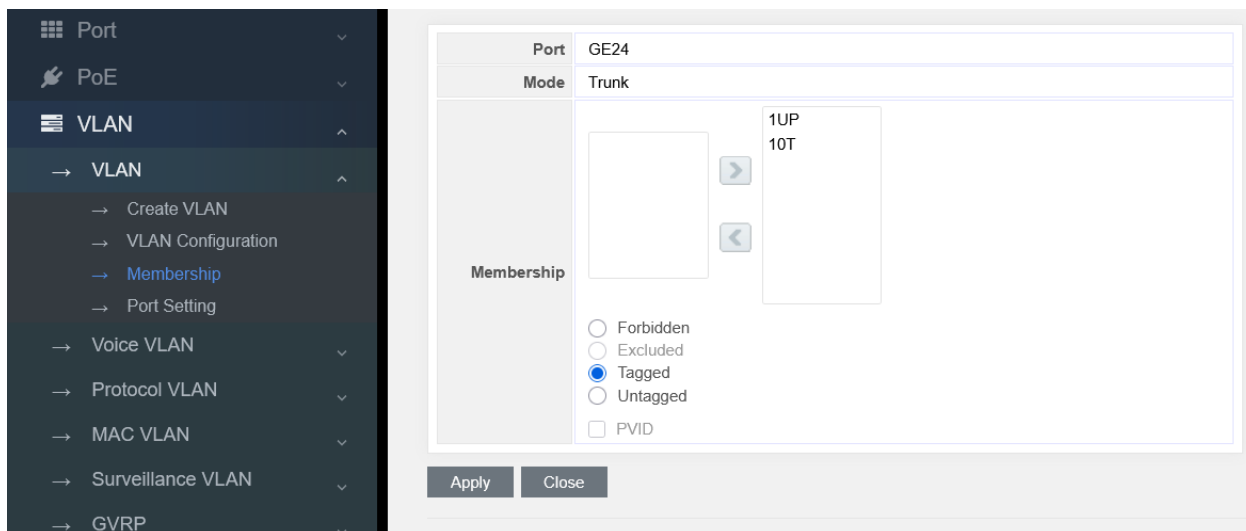
1.4.3. In the new window:

1.4.3.1. Find VLAN 10 in the left column;

1.4.3.2. Move it to the right column (allowed VLANs for this port).

1.4.4. Click **Apply**.

1.4.5. VLAN 10 is now allowed on trunk port GE24.



2. Working with VLAN (CLI)

2.1. Creating a VLAN and Naming "IT"

```
Switch# conf
Switch(config)# vlan 10
Switch(config-vlan)# name IT
Switch(config-vlan)# exit
Switch(config)# █
```

This creates VLAN 10 with the name "IT".

2.2. Assigning VLAN 10 to Port **GE5** (Access Mode)

```
Switch(config)#
Switch(config)# int gi5
Switch(config-if)# switchport mode access
Switch(config-if)# switchport access vlan 10
Switch(config-if)# exit
Switch(config)# █
```

Port **GE5** is now in **Access** mode and assigned to VLAN 10.

2.3. Configuring Trunk Port **GE24**

```
Switch(config)#
Switch(config)# int gi24
Switch(config-if)# switchport trunk allowed vlan add 10
Switch(config-if)# exit
Switch(config)# █
```

Port **GE24** is configured as a **Trunk** port and now allows VLAN 10.