Wired Network Configuration

Wired network parameters are configured in the */network/bridge* section.



A **bridge** is a virtual **Layer 2 (L2)** network device that integrates physical or logical interfaces into a single network segment.

The bridge operates as a virtual switch, aggregating multiple physical interfaces (configurable in */network/ethernet*) or logical network interfaces (configurable in */network/device*, */wireless/network*, or */tunnel*). By default, all device ports are grouped into *bridge0*.

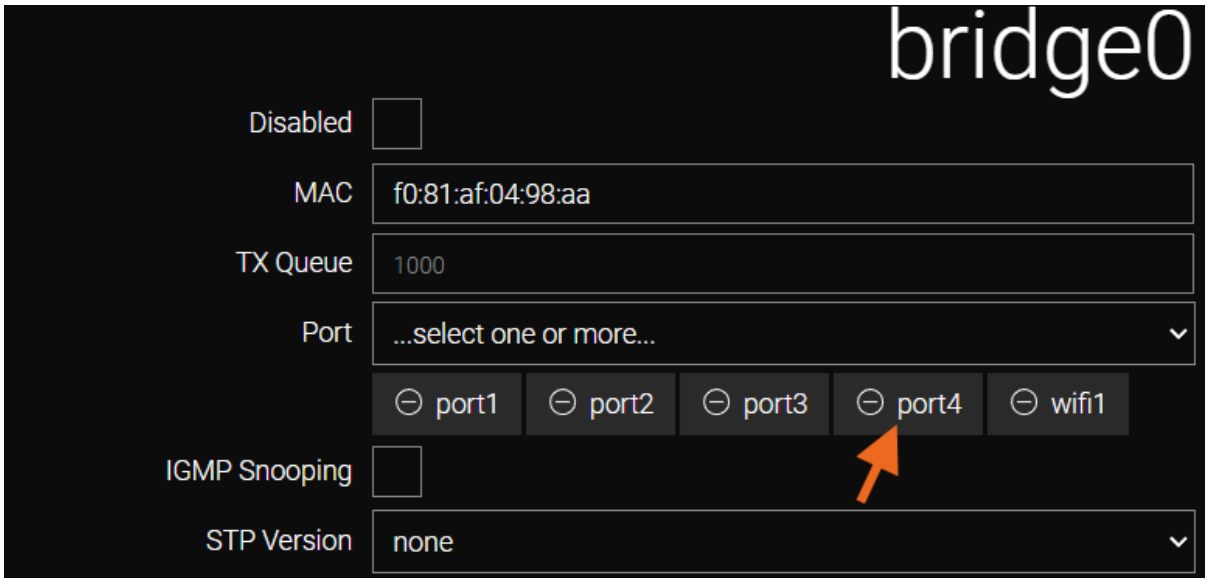
Basic Parameters

- **Disabled** — Disables the bridge.
- **MAC** — Assigns a MAC address. If not specified, the address is generated automatically.
- **Port** — Configures the list of interfaces aggregated within the bridge.

Configuration Example

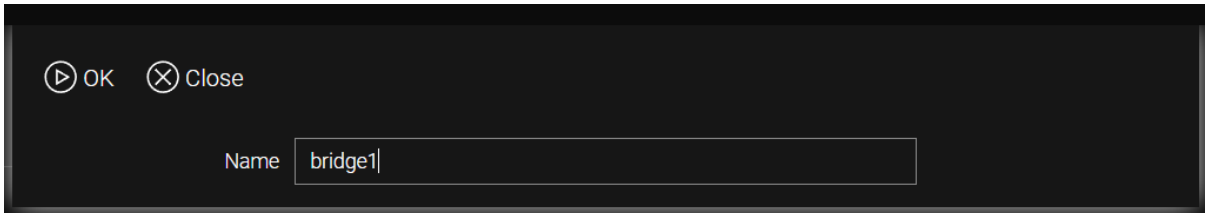
Objective: Integrate devices connected to *port2* and *port4* into a single network segment.

1. **Release the ports:**
   - Navigate to */network/bridge/bridge0*.
   - Remove *port2* and *port4* from the list by clicking the minus (**-**) button.
   - Apply the settings by clicking **Apply**.



Do not remove the port used to connect the router to the PC. This will result in loss of access to the device.

2. **Create a new bridge:**
   - Navigate to the */network/bridge* section.
   - Click **Add** to create a new bridge and specify a name (e.g., *bridge1*). Permitted characters include letters (A-Z, a-z), digits (0-9), and underscores (_).



- Add the required interfaces from the **Port** dropdown menu (in this example: *port2*, *port4*).
- Apply the settings by clicking **Apply**.



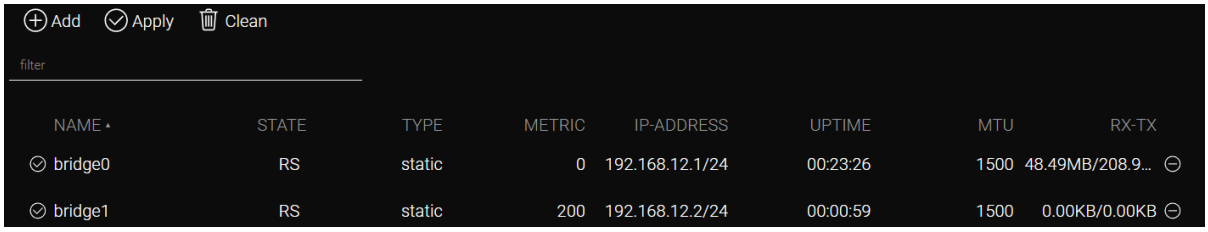
Both virtual network devices and their respective parameters are now displayed on the */network/bridge* page.



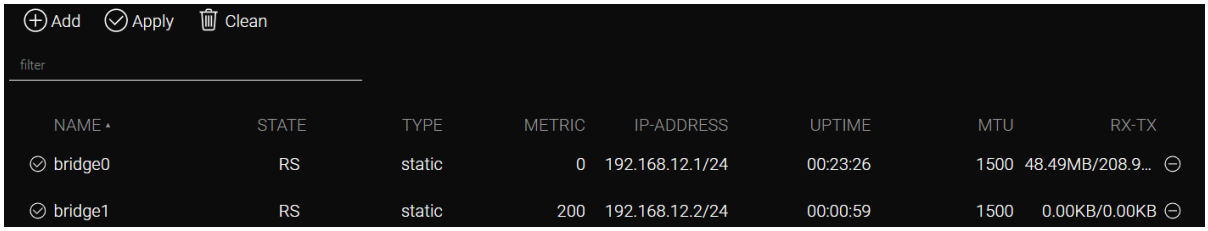
3. **Assign an IP address:**
   - Navigate to */ip/interface*.
   - Click **Add** and select *bridge1* from the list (created in step 2).
   - Specify the type as *static*.



- Go to the newly created interface at */ip/interface/bridge1*.
- Enter the IP address (e.g., *192.168.2.1/24*).
- Apply the settings by clicking **Apply**.



Both virtual network devices and their respective parameters are now displayed on the */ip/interface* page.



CLI Configuration

Removing ports from *bridge0*.

```
admin@Router[/]>network bridge bridge0
admin@Router[/network bridge bridge0]>port -port2 -port4
admin@Router[/network bridge bridge0]>..
admin@Router[/network bridge bridge0]>apply
```

Creating a new bridge and adding ports.

```
admin@Router[/network bridge]>add name=bridge1
admin@Router[/network bridge bridge1]>port port2 port4
admin@Router[/network bridge bridge1]>apply
```

Creating an interface in */ip/interface* and assigning an IP address.

```
admin@Router[/]>/ip interface add device=bridge1 type=static
admin@Router[/ip interface bridge1]>ip-address 192.168.2.1/24
admin@Router[/ip interface bridge1]>apply
```