Navijin

CONFIGURATION GUIDE

NAVIJIN L2 MANAGED SWITCHES

# L2 Managed Switch: Initial Setup

Connect to a Navijin Layer 2 managed switch for the first time, through the console port or the web interface, secure it and prepare it for production.

Console access | Web interface | Default settings | First-time security | Save & verify


Applies to
**Navijin L2 managed switches (e.g. GE6010 series)**

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ABOUT THIS GUIDE

# Before you begin

This guide takes you from an unboxed switch to a reachable, secured device. It covers both access methods, console (CLI) and web interface (GUI), explains the factory defaults, and ends with a checklist to complete before the switch goes into production. The examples use the Navijin **GE6010-24P2S-L2**; other Navijin L2 managed switches follow the same steps.

Conventions: menu paths are shown in **bold** (for example **Network** → **VLAN**); commands and values in `monospace`. Screenshots may differ slightly by firmware version.

### Who this guide is for

- Installers and integrators commissioning new switches
- IT administrators managing branch and office networks
- Students and engineers learning Navijin switching

### What you need

- A Navijin L2 managed switch and its power supply
- A computer with an Ethernet port
- For console access: an RJ45-to-DB9 console cable and a USB-to-RS232 adapter if your computer has no COM port
- Terminal software such as PuTTY or MobaXterm
- An Ethernet (RJ45/UTP) patch cable

## Factory defaults

| Setting | Default |
|---|---|
| Primary management IP | `192.168.1.1` / 255.255.255.0 |
| Secondary management IP | `192.168.0.1` / 255.255.255.0 |
| Username / password | `admin` / `admin` (change at first login) |
| Console settings | 115200 baud, 8 data bits, no parity, 1 stop bit, flow control XON/XOFF |
| Default VLAN | All ports in VLAN 1 |

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SECTION 01

# Choose your access method

Navijin L2 managed switches can be configured through the console port or over the network through the web interface. Most installers use the console for the very first connection and the web interface for day-to-day work.

| Method | Best for | What you need |
|---|---|---|
| Console (CLI) | First-time setup, recovery, scripted configuration, when the IP address is unknown | Console cable, terminal software |
| Web interface (GUI) | Visual configuration, monitoring, quick changes | Ethernet cable, web browser |
| SSH (CLI over network) | Secure remote administration after initial setup | Network access to the management IP |

**TIP**

Configure the switch on your desk before installing it in the rack. It is much easier to recover from a mistake when you can reach the console port.

SECTION 02

# Connect through the console port

The console gives you direct access to the command-line interface (CLI), independent of the network configuration.

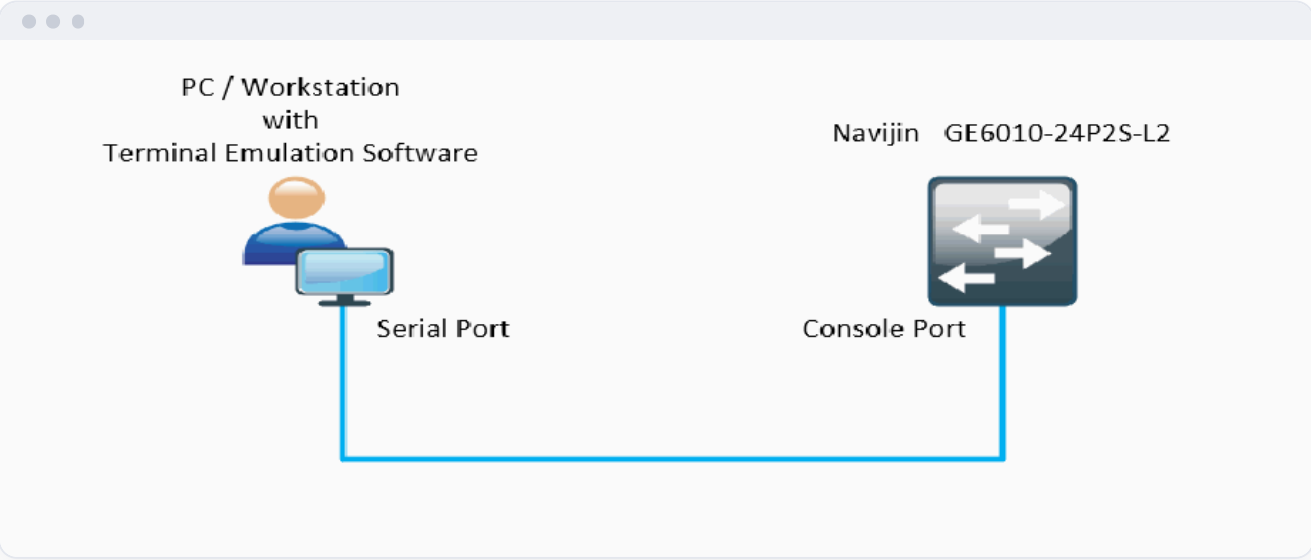



**Figure 1.** Console connection between a workstation's serial port and the switch console port.

## 1 Connect the console cable

Plug the RJ45 end of the console cable into the switch's **Console** port and the DB9 end into the computer's COM port (or USB-to-RS232 adapter).

## 2 Find the COM port number

On Windows, open **Device Manager** → **Ports (COM & LPT)** and note the port, for example `COM3`. On macOS/Linux the device is usually `/dev/ttyUSB0`.

## 3 Configure the terminal software

In PuTTY, choose **Serial**, enter the COM port and set the serial parameters:

- Speed (baud): `115200`
- Data bits: `8`
- Parity: `None`
- Stop bits: `1`
- Flow control: `XON/XOFF`

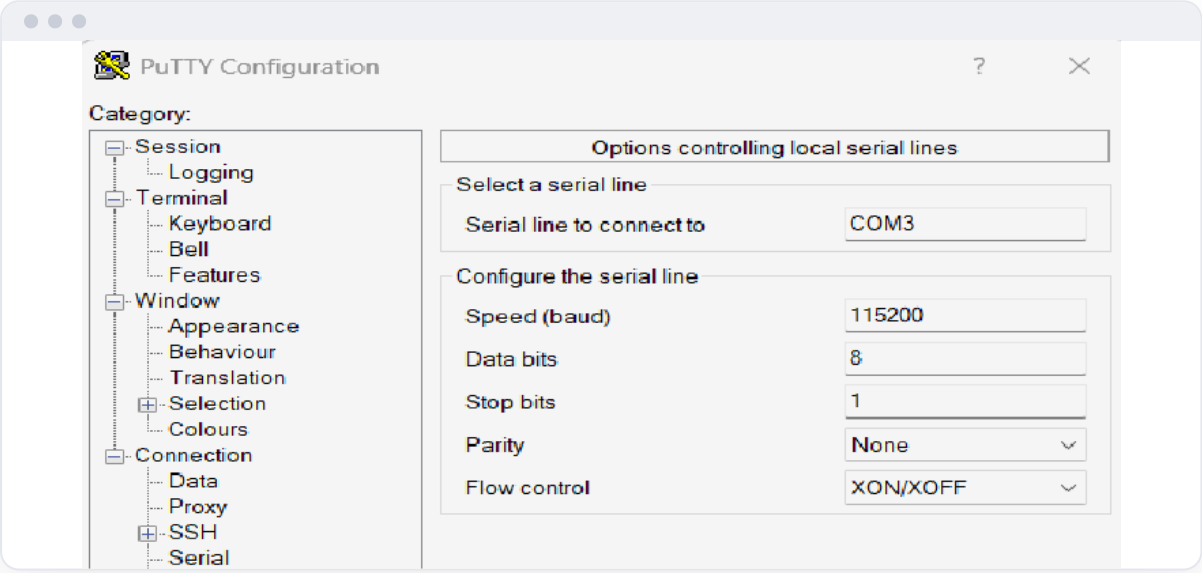



**Figure 2.** PuTTY serial-line settings for the Navijin console.

### 4 Open the session and log in

Press **Enter** to wake the console, then log in with the default credentials `admin` / `admin`. You will see the switch prompt.

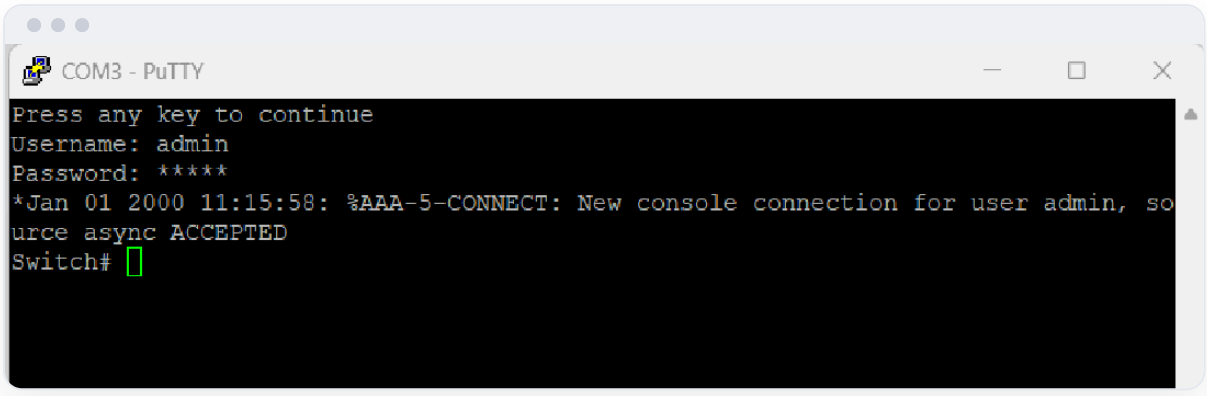



**Figure 3.** Successful console login showing the switch prompt.

> **NOTE**
> If you see unreadable characters, the baud rate is wrong. If you see nothing at all, check the COM port number and the cable.

SECTION 03

## Connect through the web interface

The switch answers on two factory IP addresses so you can reach it from either common subnet.

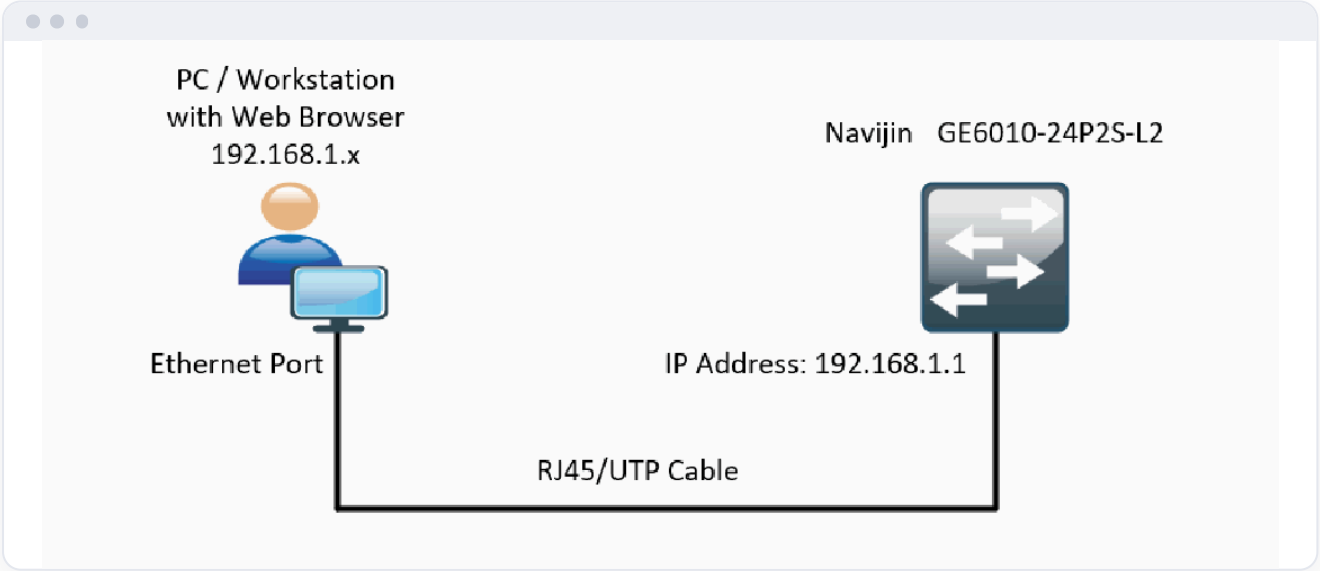



**Figure 4.** Web access: the workstation connects to any switch port with an Ethernet cable.

### 1 Connect your computer

Connect an Ethernet cable from your computer to any switch port.

## 2 Set a static IP address on your computer

Configure your network adapter in the same subnet as the switch:

- For `192.168.1.1`: use IP `192.168.1.2`, mask `255.255.255.0`
- For `192.168.0.1`: use IP `192.168.0.2`, mask `255.255.255.0`

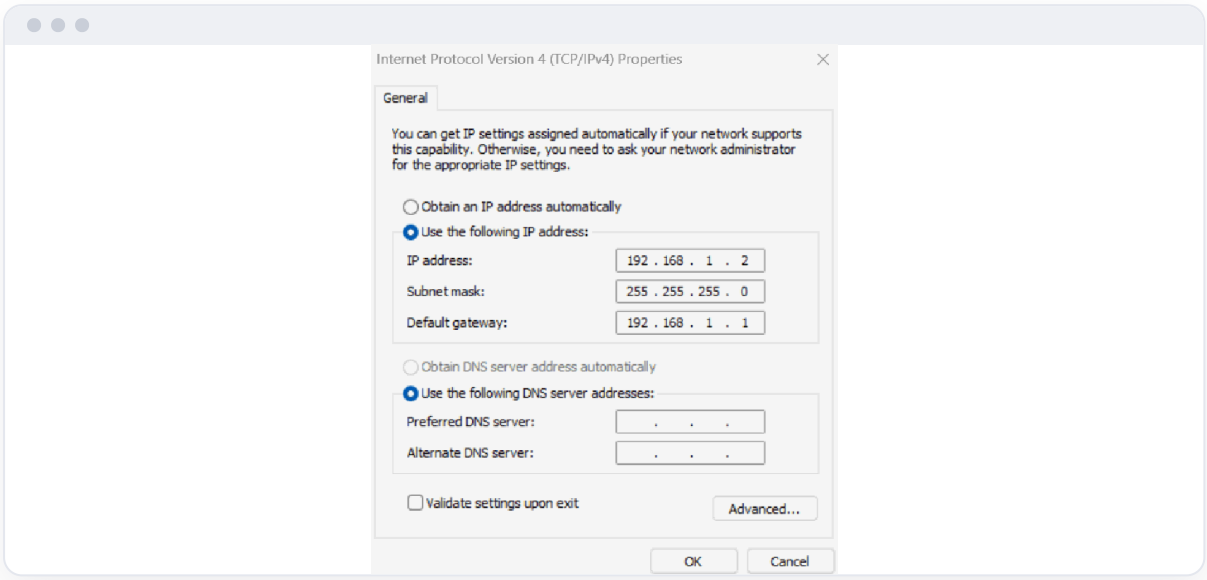



**Figure 5.** Windows IPv4 properties with a static address in the switch subnet.

## 3 Open the web interface

In a browser, go to `http://192.168.1.1` (or `http://192.168.0.1`).

## 4 Log in

Enter the default username `admin` and password `admin`.

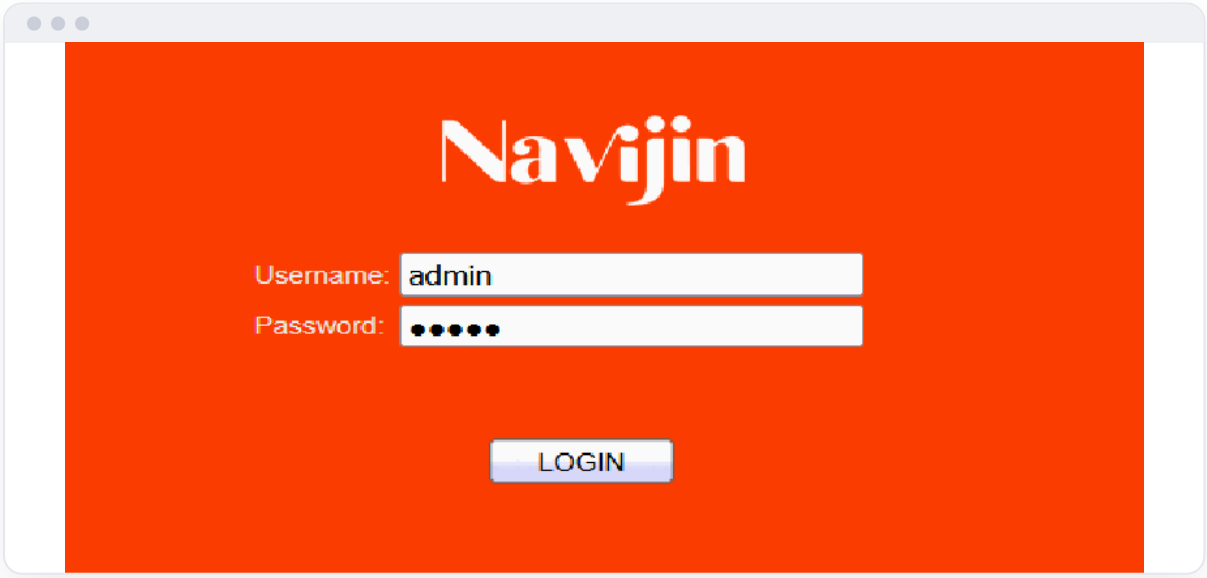



**Figure 6.** Navijin switch web login page.

**IMPORTANT**

Do not connect a new switch with default settings to a live network that already uses 192.168.1.0/24 or 192.168.0.0/24. Address conflicts can disrupt existing devices. Configure it on an isolated cable first.

SECTION 04

# Secure the switch on first login

A switch with default credentials is the easiest way into a network. Complete these steps before anything else.

1

### Change the admin password

Set a unique password of at least 12 characters mixing letters, numbers and symbols. Store it in your organisation's password manager.

2

### Set a hostname

Name the switch by site and role, for example `DXB-HQ-FL2-ACC01`, so logs and monitoring are easy to read.

3

### Set the correct time

Configure NTP and the time zone so logs and schedules are accurate.

4

### Plan the management address

Replace the factory IP with an address from your management VLAN. The **Management and SSH** guide shows how to move management to a dedicated VLAN and enable SSH.

5

### Disable what you do not use

Shut down unused ports and disable unused services. Prefer HTTPS and SSH over HTTP and Telnet.

SECTION 05

# Save and verify the configuration

Changes made in the CLI are active immediately but are lost after a reboot unless saved.

1

### Save the running configuration

From the CLI:

```
Switch# copy running-config startup-config
```

2

### Back up the configuration

Export a copy of the configuration file to a secure location before and after major changes.

### 3 Verify

Check interfaces, VLAN membership and the IP address:

```
Switch# show running-config
Switch# show interface brief
Switch# show vlan
```

**TIP**

Label the switch with its hostname and management IP. Your future self, and your support team, will thank you.

SECTION 06

## Troubleshooting

| Symptom | Likely cause | What to do |
|---|---|---|
| No output on the console | Wrong COM port, cable or driver | Check Device Manager, reinstall the USB-serial driver, try another cable |
| Garbled characters | Wrong baud rate | Set 115200, 8N1 |
| Web page does not open | Computer not in the switch subnet | Set 192.168.1.2/24 or 192.168.0.2/24 and retry; ping the switch |
| Login rejected | Password already changed | Use the site password; if lost, follow the password-recovery procedure from the console |
| Lost access after a change | Management IP or VLAN changed | Reconnect through the console and review the management configuration |

SECTION 07

## Production readiness checklist

- Admin password changed and stored securely
- Hostname and time (NTP) configured
- Management IP in the management VLAN; factory IPs removed from use
- SSH/HTTPS enabled; Telnet/HTTP disabled
- Unused ports shut down
- VLANs configured (see **Working with VLANs**)
- Configuration saved and backed up
- Switch labelled and documented

### Can I reset the switch to factory defaults?

Yes. Use the reset option in the web interface or the console. A factory reset erases the configuration, so back up first.

### Do I need the console if the web interface works?

Not for daily work, but keep a console cable available for recovery.

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# Need help?
# We are here for you.

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