

Complete Installation Guide: WSL2, Ubuntu 24.04, Docker Desktop, and Nuclias Hyper

This guide provides step-by-step instructions to install and configure WSL2, Ubuntu 24.04, Docker Desktop, and D-Link Nuclias Hyper on Windows 10 or Windows 11.

1. Enable WSL2 on Windows

- 1. Open PowerShell as Administrator.
- 2. Run the following command:

```
wsl --install
```

3. Restart your computer when prompted.

2. Install Ubuntu 24.04

Run the following command in PowerShell:

```
wsl --install -d Ubuntu-24.04
```

```
wsl --install --web-download -d Ubuntu-24.04
```

Once installed, launch Ubuntu and create a UNIX username and password.

3. Verify WSL Installation

Run the following command to check your WSL version:

```
wsl -l -v
```

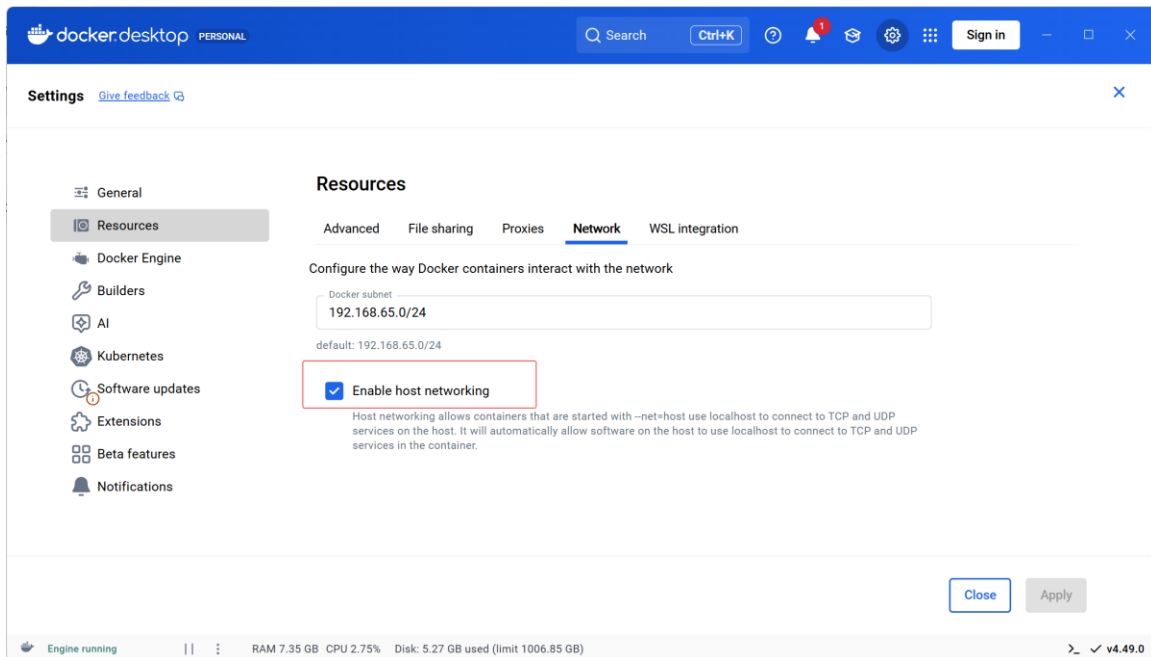
If it shows VERSION 1, run: `wsl --set-version Ubuntu-24.04 2`

4. Install Docker Desktop

1. Download Docker Desktop from <https://www.docker.com/products/docker-desktop/>
2. Run the installer and ensure 'Use WSL 2 instead of Hyper-V' is selected.
3. Restart your computer after installation.

5. Configure Docker Desktop for WSL2

1. Open Docker Desktop > Settings > General > Enable 'Use the WSL 2 based engine'.
2. Go to Settings > Resources > WSL Integration > Enable 'Ubuntu-24.04'.
3. To allow Windows 11 to access network services running inside WSL through localhost, please enable the "Enable host networking" option in Docker Desktop settings.



6. Install Nuclias Hyper

1. Download the Nuclias Hyper package (nuclias_hyper.tar.gz) to your Ubuntu home directory.

2. Extract the package: `tar zxvf nuclias_hyper.tar.gz`

3. Navigate to the extracted folder and start the installation:

```
cd NucliasHyper
sudo ./init.sh
```

4. install finish and then exec “`sudo docker-compose up -d`”

4. During setup, you will be asked to configure the admin account and host IP.

Example URL: `https://localhost:30003` or `https://<your-IP>:30003`

8. Verify Running Containers

Check active containers using:

```
sudo docker ps
```

Ensure containers for nuclias_hyper, nms, core, web, and postgresql are running.

9. Access Nuclias Hyper

Open your browser and go to: `https://localhost:30003`

Login using the admin credentials created during setup.

10. Initial Configuration

1. Complete the setup wizard.
2. Add network and access points for discovery.
3. Configure NMS for switch management.
4. Verify devices under Monitor > Access Point and Monitor > Switch.

11. Summary

You have successfully installed WSL2, Ubuntu 24.04, Docker Desktop, and Nuclias Hyper. Nuclias Hyper is now ready for network management via a web browser.