

WIS2- Workshop DWD



WIS2-in-a-BOX

Setup and Configuration

SSH Connection and Web Orientation

Instance Information

- Ubuntu 24.04 VM
- Each VM contains:
 - Hostname
 - Floating IP
 - Username: wis2user



SSH Connection general information

➔ Following ports have to be added to the ssh tunnel:

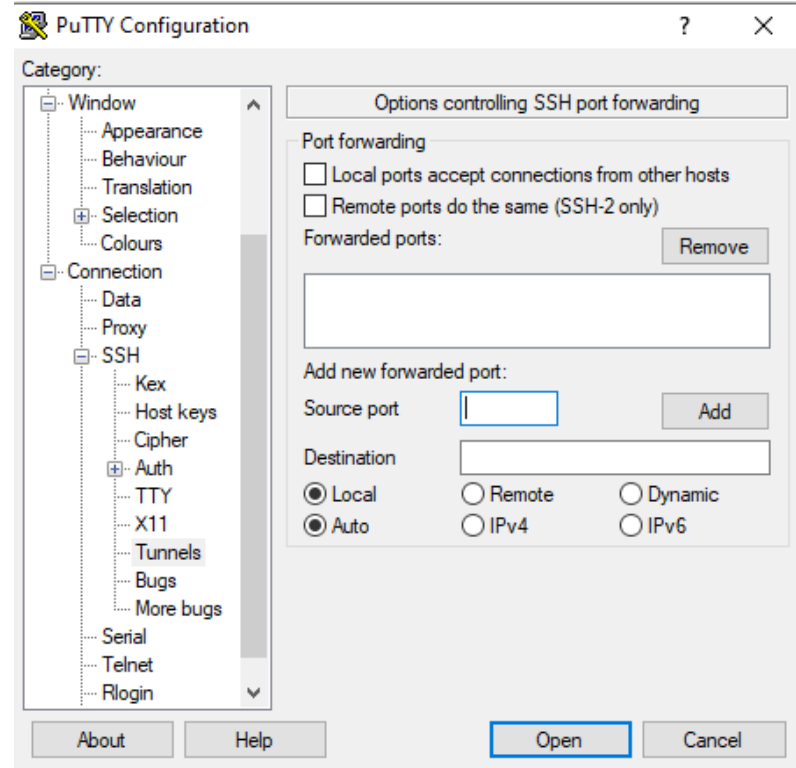
- ➔ 80: wis2box-ui
- ➔ 1883: wis2box-broker
- ➔ 3000: wis2box-grafana
- ➔ 9001: wis2box-minio
- ➔ 8080: wis2downloader-ui
- ➔ 3001: wis2downloader-grafana
- ➔ 5002: wis2downloader-api
- ➔ 1884: globalbroker

Connection via PuTTY on Windows

SSH Connection and Web Orientation

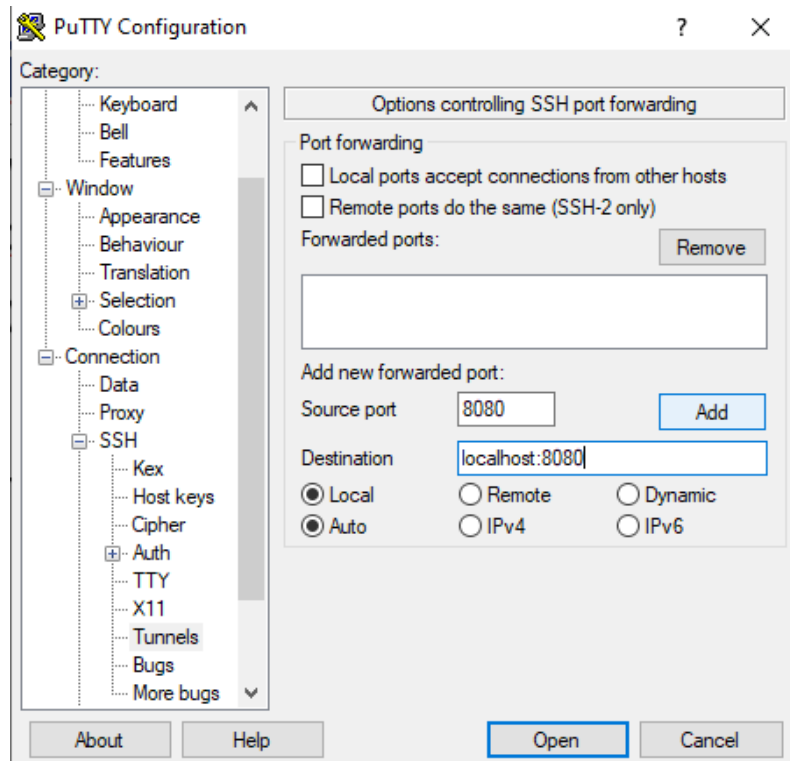
SSH Connection to Virtual Machine with PuTTY

- ➔ You will be provided with the following items for a secure login:
 - ➔ Username: wis2user
 - ➔ Password
- ➔ In PuTTY, go to „Connection -> SSH -> Tunnels“
- ➔ Port forwarding via ssh Tunnels



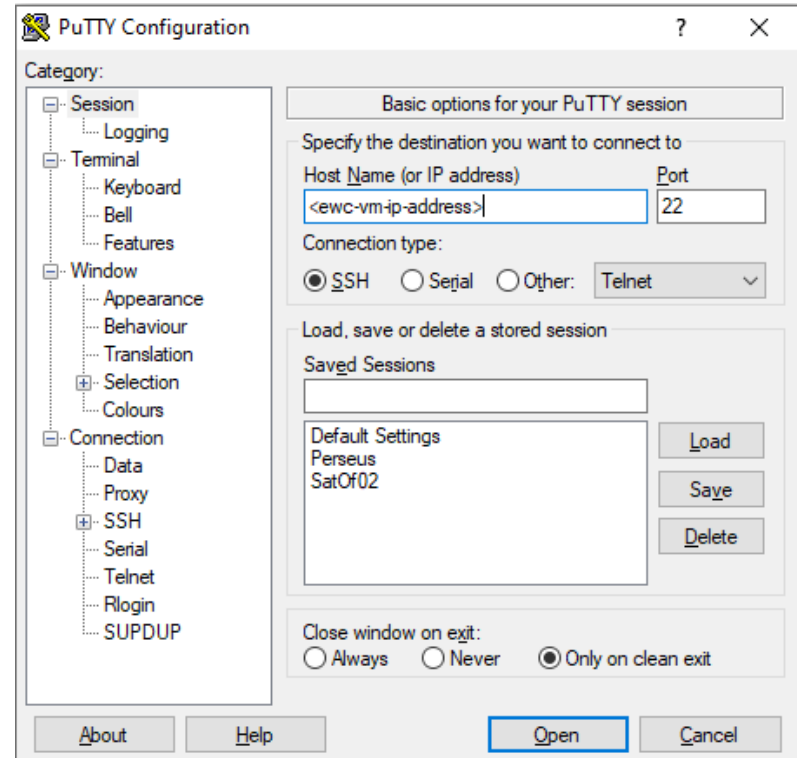
SSH Connection to Virtual Machine with PuTTY

- ➔ Enter the port into the „Source port“ text field
- ➔ Enter the localhost address with port into the „Destination“ text field
- ➔ Click „Add“



SSH Connection to Virtual Machine with PuTTY

- ➔ Go to „Session“
- ➔ Enter your given IP-Address into the „Host Name“ text field
- ➔ A terminal window will open
- ➔ Enter the username: wis2user
- ➔ Enter the corresponding password given to you



Connection via terminal on Linux

SSH Connection and Web Orientation

SSH Connection to Virtual Machine over linux terminal

- ➔ You will be provided with the following items for a secure login:
 - ➔ Username: wis2user
 - ➔ Password
- ➔ Establish the connection via ssh:

```
ssh -L 1883:localhost:1883 -L 3000:localhost:3000 -L 8080:localhost:8080 wis2user@<EWC-IP>
```

- ➔ For each Tunnel use the “-L” option like following: “-L source-port:localhost:port”
 - ➔ SSH Tunneling to access necessary ports (Grafana, wis2downloader...)

Usage of WinSCP and SCP

→ WinSCP:

- Transmission Protocol: SCP
- Server address: The IP-Address given to you
- Username: wis2user
- Password: The Password given to you

→ SCP:

- Send files ==> `scp /your/file/path wis2user@ip:/your/file/path`
- Receive files ==> `scp wis2user@ip:/your/file/path /your/file/path`

Access Sites

- Since the traffic will be going through an ssh tunnel, you will be accessing the sites in a web browser of your choice via your localhost:
 - WIS2Box-UI: <http://localhost:80>
 - WIS2Box-Grafana: <http://localhost:3000>
 - WIS2Box-MinIO: <http://localhost:9001>
 - WIS2Downloader: <http://localhost:8080>
 - WIS2Downloader-Grafana: <http://localhost:3001>
 - WIS2Downloader-api: <http://localhost:5002>
- WIS2Box-Broker is available via port 1883 in MQTT Explorer: <http://localhost:1883>
- Global Broker is available via port 1884 in MQTT Explorer: <http://localhost:1884>