

Prepackaged

Running JIPipe on a Linux Server using MobaXterm on Windows

This guide explains how to upload and run the prepackaged Linux version of JIPipe on a remote server using **MobaXterm** on Windows.

1. Download JIPipe

Open the official JIPipe download page:

<https://jipipe.hki-jena.de/download>

Download the **Prepackaged Linux64 ZIP** package.

The prepackaged version already contains Fiji/ImageJ and JIPipe.

Linux instructions are also available here:

https://applied-systems-biology.github.io/JIPipe-Documentation/prepackaged-jipipe.html#-uj2awg_7

2. Connect to the Server using MobaXterm

1. Open **MobaXterm**
2. Click **Session**
3. Select **SSH**
4. Enter:
 - **Remote host:** your server hostname or IP
 - **Specify username:** your Linux username
5. Click **OK**

You will now get a Linux terminal inside MobaXterm.

3. Upload the ZIP File

MobaXterm includes a built-in SFTP file browser on the left side.

Method 1: Drag and Drop (Recommended)

- Drag the downloaded `JIPipe-*-Prepackaged-Linux64.zip` file into the desired server directory.

Example destination:

```
/opt/jipipe/
```

Method 2: Use SCP Command

You can also upload from the terminal:

```
scp JIPipe-*-Prepackaged-Linux64.zip username@server:/opt/jipipe/
```

4. Unpack the ZIP File

Inside the terminal:

```
cd /opt/jipipe  
unzip JIPipe-5.3.0-Prepackaged-Linux64.zip
```

This creates the extracted JIPipe directory.

5. Fix Permissions (Important)

If you get a **Permission denied** error when starting JIPipe, make the launcher executable.

The launcher scripts are located inside the `bin` folder:

```
cd JIPipe/bin  
chmod +x ImageJ-linux64  
chmod +x jipipe.sh
```

You can verify the permissions:

```
ls -l ImageJ-linux64  
ls -l jipipe.sh
```

6. Start JIPipe

Start JIPipe using:

```
bash jipipe.sh
```

or:

```
./jipipe.sh
```

7. Running JIPipe on Remote Servers

For remote Linux servers, we currently recommend using **MobaXterm X11 forwarding** to display the JIPipe GUI remotely.

MobaXterm automatically provides an X11 server on Windows.

Before connecting:

1. Open **MobaXterm**
2. Go to:
 - **Settings → X11**
3. Ensure:
 - **X11 server is enabled**

When creating the SSH session:

1. Open **Session**
2. Select **SSH**
3. Enable:
 - **X11-Forwarding**

Then connect normally and start JIPipe:

```
cd /opt/jipipe/JIPipe/bin
bash jipipe.sh
```

The JIPipe GUI should appear on your Windows desktop.

8. Advanced / Untested: Headless Execution using Xvfb

“△ Advanced / currently untested setup.

If the server has no graphical desktop environment, it may be possible to run JIPipe using a virtual display with `Xvfb`.

Install:

```
sudo apt install xvfb
```

Run:

```
xvfb-run bash jipipe.sh
```

This setup has not been fully tested with JIPipe workflows.

9. Keep JIPipe Running after Disconnecting

Use `screen`:

```
screen -S jipipe  
cd /opt/jipipe/JIPipe/bin  
bash jipipe.sh
```

Detach from the session:

```
Ctrl+A then D
```

Reconnect later:

```
screen -r jipipe
```

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