

# Raspbian 10

## Prepare SD card

- Download and install the [RaspBerry Pi Imager](#)
- Copy “RaspBerryPi OS Lite” to the SD card

## Install OS

- Boot from SD card
- Update all packages
- Enable SSH server in *Interface Options* and set location and keyboard in *Localisation Options*:

```
sudo raspi-config
```

- Change host name
- Config [SSH](#) and generate SSH keys
- Exchange public key files
- Install missing packets:

```
apt install autossh vim
```

## Install AutoSSH

Install AutoSSH on a **remote\_host** to connect to my main server (**local\_host**) to allow connections from **any\_host** (either at the local location, or at any other remote location) back to the remote host.

### Remote location

1. Verify: SSH from **remote\_host** to **local\_host**:<ssh\_port\_local\_host> with key pair authentication and establish tunnel, requires <ssh\_port\_local\_host> to be open on local location:

```
remote_host$ ssh -R <port_to_access_remote_from_local>:localhost:22  
user@<domain_name_of_local_host> -p <ssh_port_local_host>
```

### Local location

1. Verify: SSH from **local\_host** to **remote\_host** through tunnel at <port\_to\_access\_remote\_from\_local>

```
local_host$ ssh pi@localhost -p <port_to_access_remote_from_local>
```

## Any location

1. Verify: SSH to **local\_host** and establish tunnel from (any\_host)  
<port\_to\_access\_remote\_from\_local> to localhost:<port\_to\_access\_remote\_from\_local>
2. Verify: SSH from any\_host to localhost:<port\_to\_access\_remote\_from\_local>

## Links

- [SSH tunneling with Autossh](#)

From:  
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Last update: **2021/04/27 18:25**

