

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 access from local_host and any_host: 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>
```

2. Once confirmed, create file *autossh-tunnel.service* in */etc/systemd/system/*:

```
[Unit]  
Description=AutoSSH tunnel service Remote port  
<port_to_access_remote_from_local> to local 22  
After=network.target  
  
[Service]
```

```
Environment="AUTOSSH_GATETIME=0"  
ExecStart=/usr/bin/autossh -o "ServerAliveInterval 10" -o  
"ServerAliveCountMax 3" -N -R  
<port_to_access_remote_from_local>:localhost:22  
user@<domain_name_of_local_host> -p <ssh_port_local_host> -i  
/home/pi/.ssh/id_ecdsa  
  
[Install]  
WantedBy=multi-user.target
```

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](#)

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