

Initial Setup

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Wheel

Raspberry Pi OS does not have the wheel group by default. It can be added with

```
sudo groupadd wheel
```

A user can then be added to the wheel group with

```
sudo usermod -aG wheel username
```

The -a flag appends the group, such that the user is not removed from all groups that are not explicitly listed in this command. The -G flag specifies the groups that the user will be added to, listed directly after the flag.

Whether the user is now added to the group can be checked with

```
cat /etc/group
```

There should be an entry similar to

```
wheel:x:1001:username
```

This entry confirms that the user has been added to the wheel group.

doas

doas can be installed with

```
sudo apt install doas
```

After this, a config file must be created, optionally after installing vim with

```
sudo apt install vim
```

```
sudo vim /etc/doas.conf
```

The content of the config file should then be set to

```
permit setenv {PATH=/usr/local/bin:/usr/local/sbin:/usr/bin:/usr/sbin} :wheel
```

The config file **MUST** end with an empty line. Additionally, "permit" can be followed by "persist" to allow for doas to have a period of time where the password must not be entered for new commands, after it has been used with a password initially.

The system needs to be rebooted for doas to function.

ssh

The Raspberry Pi OS can be set up with an rsa key already authorized. If this is not the case, a new public key must be added. The new key must be moved into the file

```
/home/username/.ssh/authorized_keys
```

Afterwards, the default port for ssh connections must be changed to 200, such that the forwarded port matches the ssh port. This can be done with

```
doas vim /etc/ssh/sshd_config
```

Where the Port must be changed from 22 (default) to 200. Afterwards, the ssh daemon must be restarted using

```
doas systemctl restart sshd
```