

Install UniFi Controller on Raspberry Pi

1. Install and update 64-bit OS.
2. Set a static IP. From the terminal enter `nano /etc/dhcpd.conf` and uncomment the lines under Example static IP configuration. Reboot to apply and test.
3. Install rng-tools with `sudo apt install rng-tools`. The config in `/etc/default/rng-tools-debian` should be modified. Uncomment the line with `HRNGDEVICE=/dev/hrng`. Once the file is saved restart with `sudo systemctl restart rng-tools`.
4. Prior to installing the UniFi controller, an older version of libssl needs to be installed and mongodb installed, enabled, and started.

```
wget http://ports.ubuntu.com/pool/main/o/openssl/libssl1.0.0_1.0.2g-1ubuntu4_arm64.deb -O libssl1.0.deb
sudo dpkg -i libssl1.0.deb
wget https://repo.mongodb.org/apt/ubuntu/dists/xenial/mongodb-org/3.6/multiverse/binary-arm64/mongodb-org-server_3.6.22_arm64.deb -O mongodb.deb
sudo dpkg -i mongodb.deb
sudo systemctl enable mongod
sudo systemctl start mongod
```

5. Rather than downloading and installing the Debian package, we will add the repository so that it can be managed with apt. Enter `echo 'deb [arch=amd64 signed-by=/usr/share/keyrings/ubiquiti-archive-keyring.gpg] https://www.ui.com/downloads/unifi/debian stable ubiquiti' | sudo tee /etc/apt/sources.list.d/100-ubnt-unifi.list >/dev/null` to add the repository to the apt configuration. Next, add the key to your trusted keys with `curl https://dl.ui.com/unifi/unifi-repo.gpg | sudo tee /usr/share/keyrings/ubiquiti-archive-keyring.gpg >/dev/null`.
6. Run `sudo apt update` to update the package repository.
7. Install the UniFi package with `sudo apt install unifi`. Answer yes to continue.
8. Check the service status with `sudo service unifi status`. If it hasn't started install java with `sudo apt install openjdk-17-jre-headless unifi`.
9. Run `sudo service unifi start` to start the service again.
10. You should now be able to access the controller at <https://{your-ip}:8443> and begin configuration.

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