

# Raspberry Pi 3 Configuration

- Download Raspberry Pi Imager from [www.raspberrypi.org](http://www.raspberrypi.org).

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## Install Raspberry Pi OS using Raspberry Pi Imager

Raspberry Pi Imager is the quick and easy way to install Raspberry Pi OS and other operating systems to a microSD card, ready to use with your Raspberry Pi. [Watch our 45-second video](#) to learn how to install an operating system using Raspberry Pi Imager.

Download and install Raspberry Pi Imager to a computer with an SD card reader. Put the SD card you'll use with your Raspberry Pi into the reader and run Raspberry Pi Imager.

[Download for Windows](#)

[Download for macOS](#)

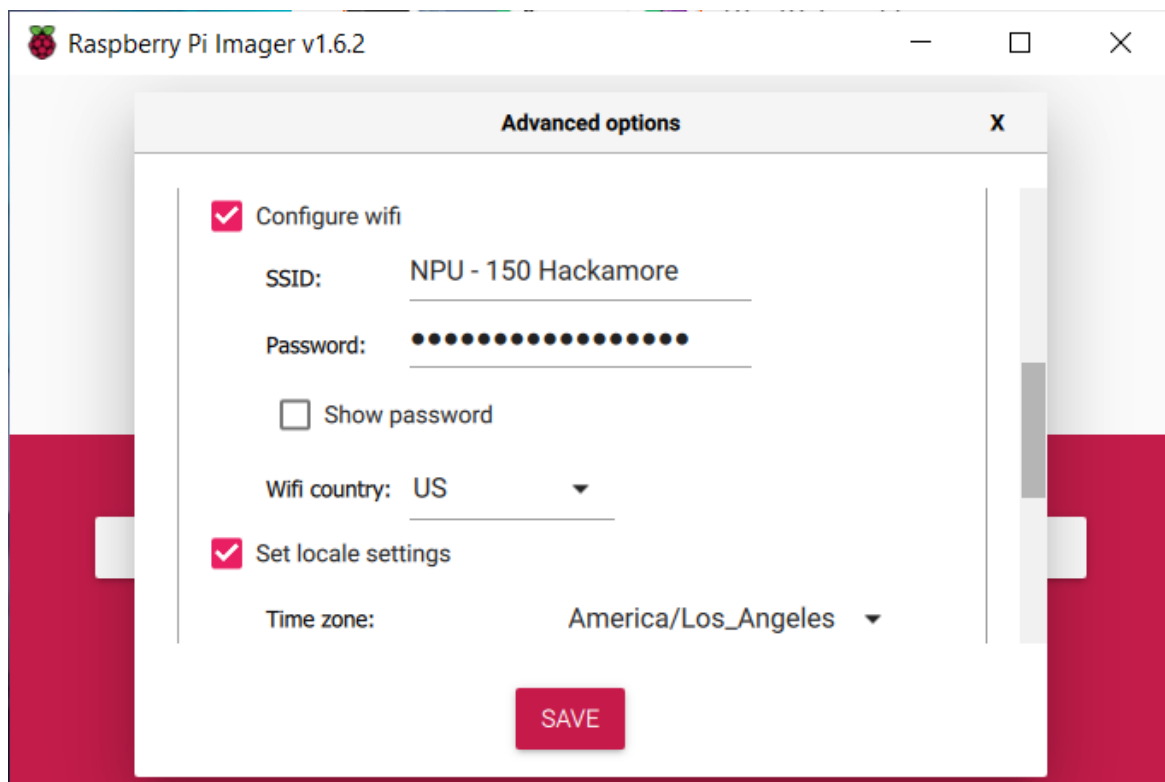
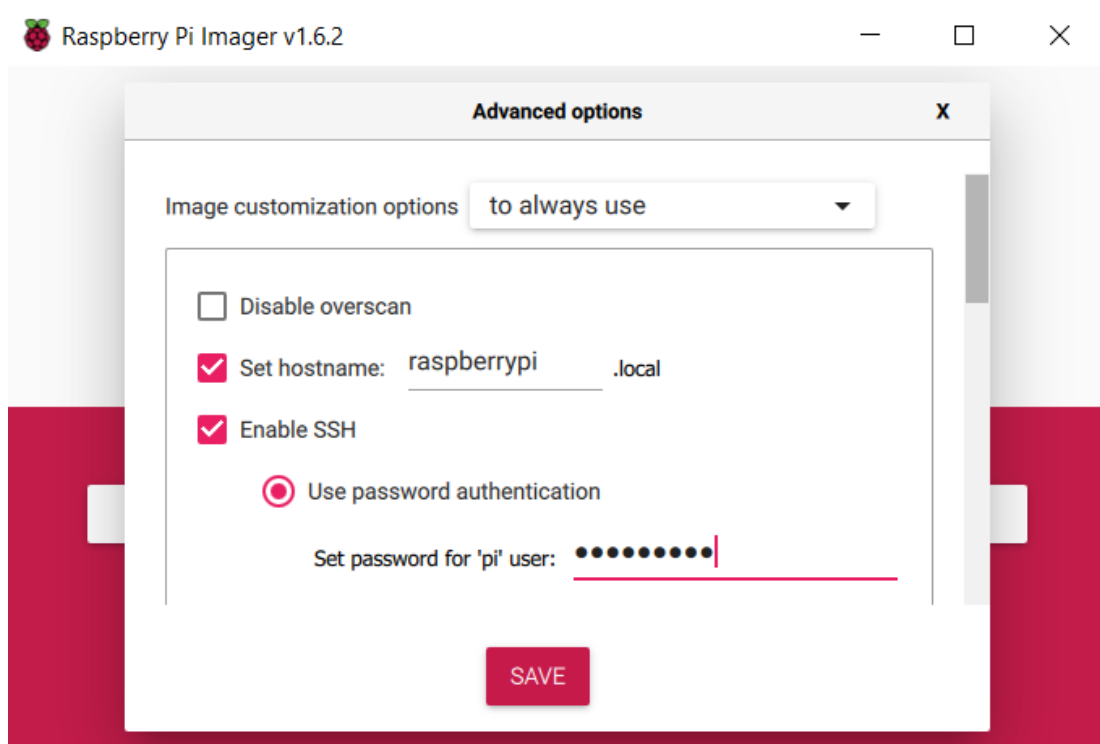
[Download for Ubuntu for x86](#)



- Open Raspberry pi Imager and connect SD Card to the system and choose SD card and Operating system to write.



- Go to advanced options and provide host name and wifi details and save.



- Now click on write to write the OS into the SD Card.



- After completing the writing, remove SD card and insert again.
- Create an empty file ssh and a configuration file wpa\_supplicant.conf.
- These two files are loaded into the boot of the SD card.
- The wpa\_supplicant.conf has the details of WIFI and password as follows.

```
ctrl_interface=DIR=/var/run/wpa_supplicant GROUP=netdev
```

```
update_config=1
```

```
country=US
```

```
network={
```

```
    ssid="NPU - 150 Hackamore"
```

```
    psk="Wifi Password"
```

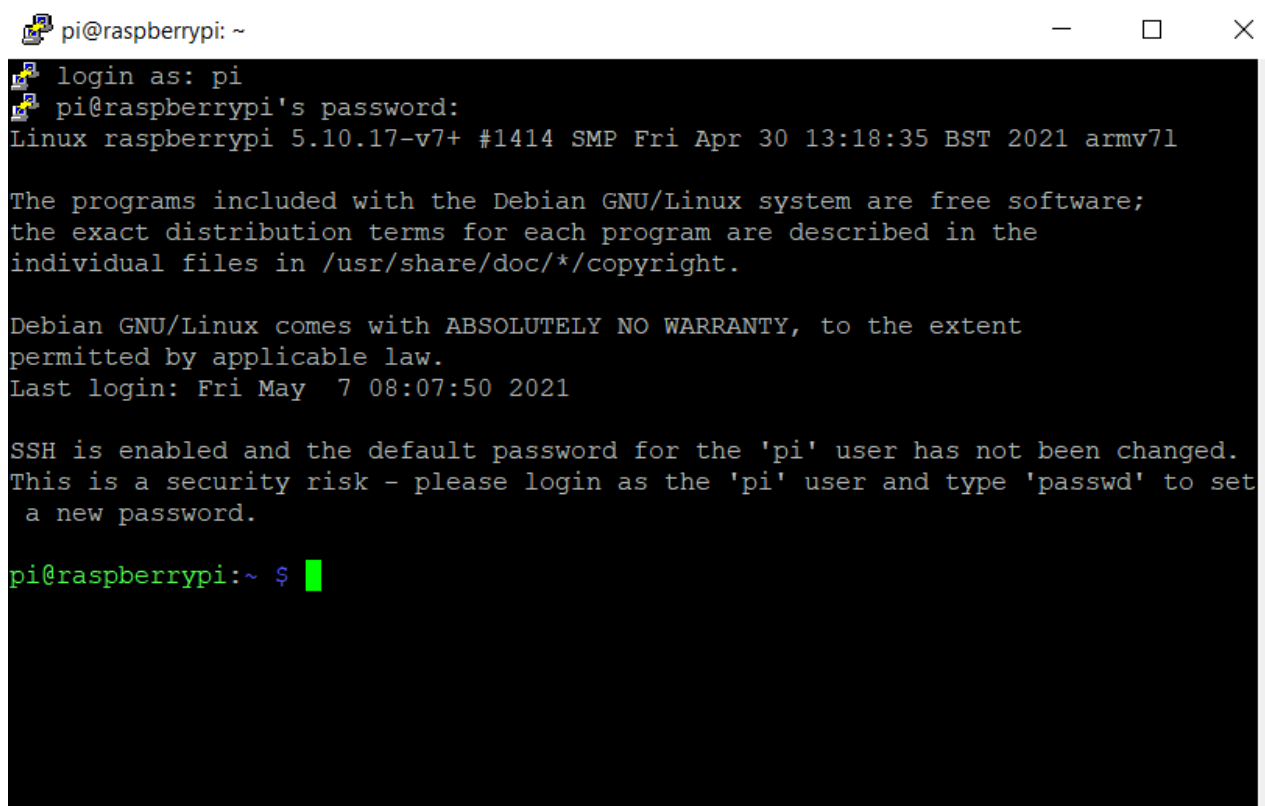
```
    scan_ssid=1
```

```
}
```

- Now insert the SD card into the raspberry pi and turn on the power supply. Wait until the pi boots.
- To scan the IP address of raspberry pi, use IP scanner or open putty client and type raspberry pi and check SSH connection and open.

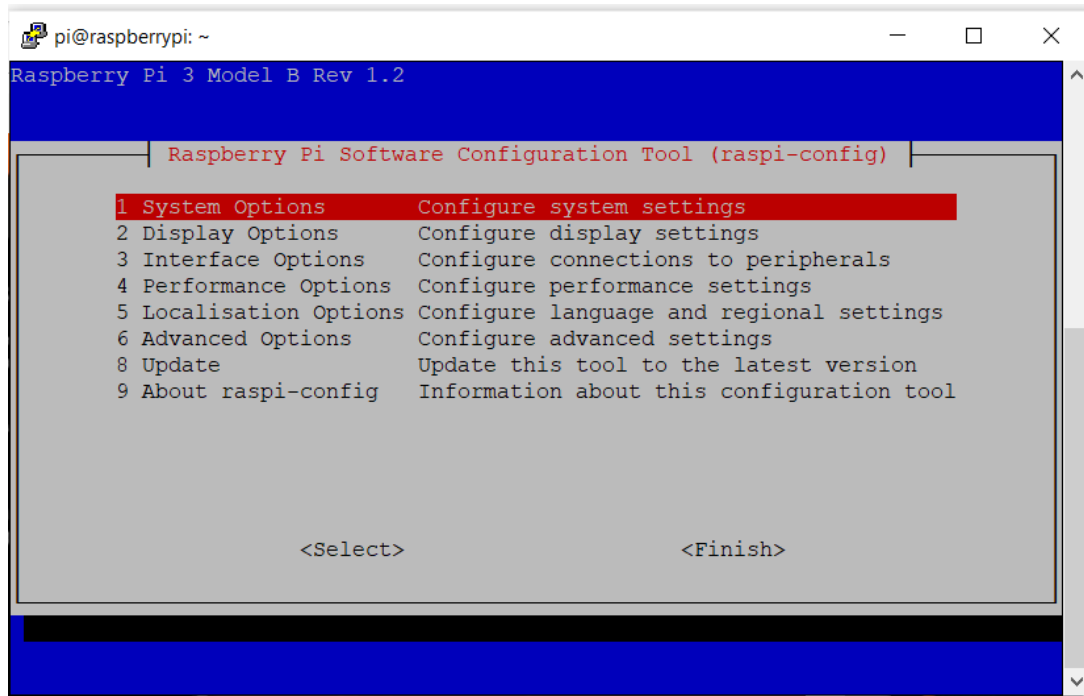
Login as : pi

Password: raspberry

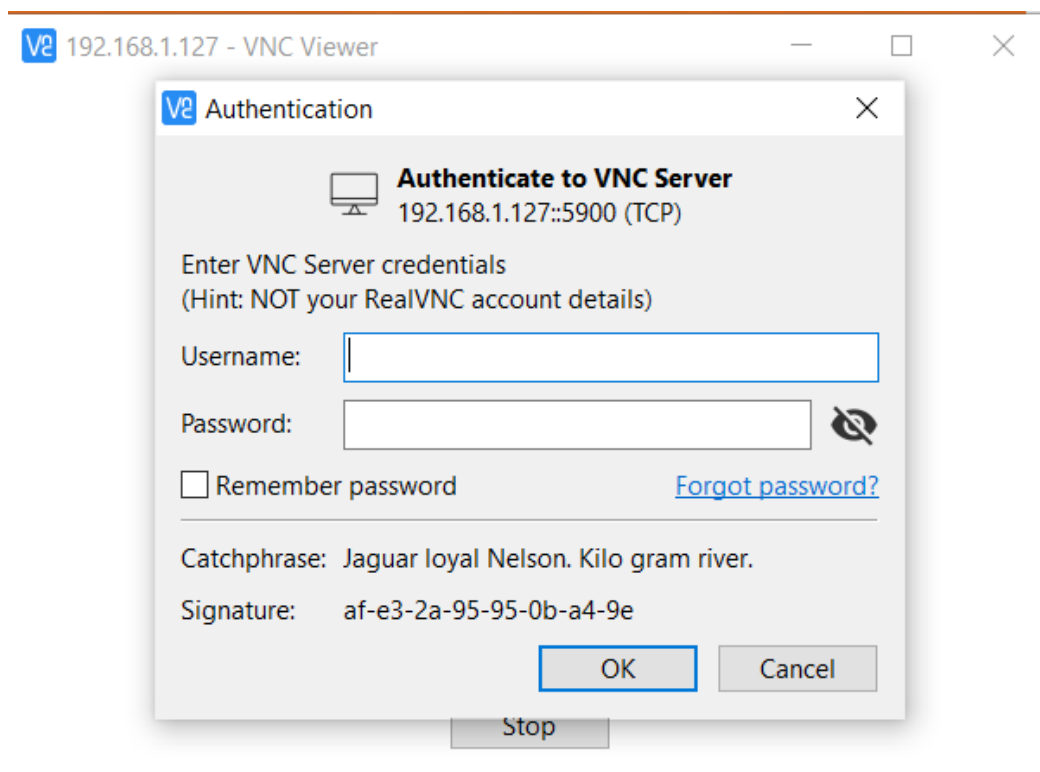
A terminal window titled 'pi@raspberrypi: ~' with standard window controls. The terminal output shows the login process for the 'pi' user. It displays the Linux version '5.10.17-v7+', kernel architecture 'armv7l', and the date 'Fri Apr 30 13:18:35 BST 2021'. It includes the Debian GNU/Linux free software disclaimer and warranty information. A warning message states that SSH is enabled and the default password for the 'pi' user has not been changed, advising the user to run 'passwd' to change it. The prompt 'pi@raspberrypi:~ \$' is shown at the bottom with a green cursor.

```
pi@raspberrypi: ~  
login as: pi  
pi@raspberrypi's password:  
Linux raspberrypi 5.10.17-v7+ #1414 SMP Fri Apr 30 13:18:35 BST 2021 armv7l  
  
The programs included with the Debian GNU/Linux system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent  
permitted by applicable law.  
Last login: Fri May 7 08:07:50 2021  
  
SSH is enabled and the default password for the 'pi' user has not been changed.  
This is a security risk - please login as the 'pi' user and type 'passwd' to set  
a new password.  
  
pi@raspberrypi:~ $
```

- Type `sudo raspi-config` to configure and enable vnc.



- Choose interface options and enable SSH and VNC and finish. Now open VNC viewer and search for IP address of raspberry pi 192.168.1.127



- Enter username pi and password raspberry and click OK.
- Now the configuration is done and is ready to use.

