



SKYMINER TUTORIAL

SOFTWARE PART

Easily install your official or DIY Skyminer almost fully automated with our SkyInstallScript available on Github.

<https://github.com/TheSKYpeople/SkyInstallScript>

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96a0

BITCOIN

1EH9Sw1JgnndJGVnUsQkhhiA6XBynqUFuQ

Tutorial **SOFTWARE PART**

TO EASILY INSTALL THE OFFICAL OR DIY SKYMINER

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Intro

We wanted to make the process of setting up a fully operational Skycoin Miner as easy as possible for everyone. To do so we developed an installation script that will do the complex process with ease and fully automated.

We also included auto start scripts to keep your miners operational after a reboot or a shutdown. They are also automatically installed with the script.

The installation script needs only to be executed on one board and it logs in to the other boards via SSH itself to install them, too.

This tutorial is for the Software part of your Skyminer. For the hardware assembly, please use the following tutorial from the official Skycoin project:

[https://downloads.skycoin.net/skywire/Skywire Miner Assembly Manual 2 1.pdf](https://downloads.skycoin.net/skywire/Skywire_Miner_Assembly_Manual_2_1.pdf)

HAVE FUN!!!

AND CONTACT US IF YOU NEED FURTHER ASSISTENCE!

Do you like this tutorial? Is it helpful to you?

Please support our work.



Skycoin



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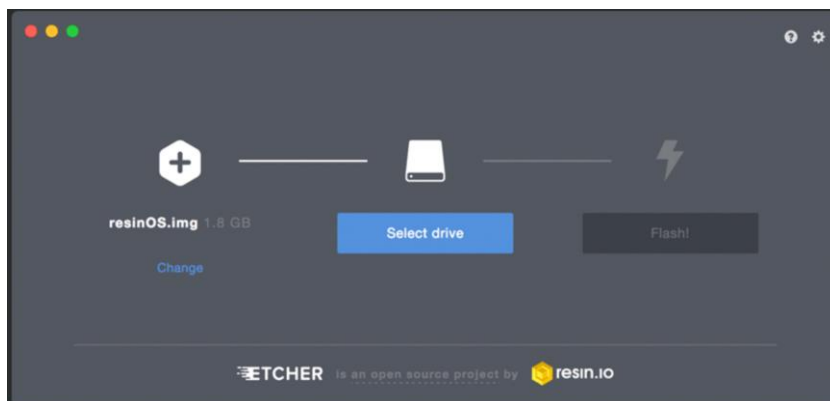
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Preparations

Downloads

1. ETCHER (Software to Flash SD Cards)



Depending on what OS you are using on your Workstation (the computer you use in your daily life), you need a special software ([Etcher](#)) to flash the image of the operation system for the Orange PI boards of your **Skyminer** to the SD Cards (shipped with your **Skyminer**).

Please download for

Windows 64bit

<https://github.com/resin-io/etcher/releases/download/v1.3.1/Etcher-Setup-1.3.1-x64.exe>

Windows 32bit

<https://github.com/resin-io/etcher/releases/download/v1.3.1/Etcher-Portable-1.3.1-x86.exe>

MacOS

<https://github.com/resin-io/etcher/releases/download/v1.3.1/Etcher-1.3.1.dmg>

Linux 64bit

https://github.com/resin-io/etcher/releases/download/v1.3.1/etcher-1.3.1-linux-x86_64.zip

Linux 32bit

<https://github.com/resin-io/etcher/releases/download/v1.3.1/etcher-1.3.1-linux-i386.zip>



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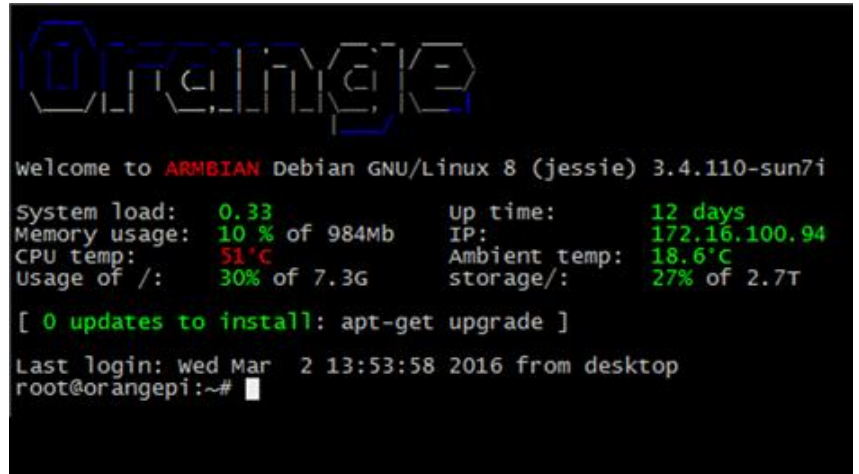
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BITCOIN

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2. **armbian** (Operation System for Orange PI's)



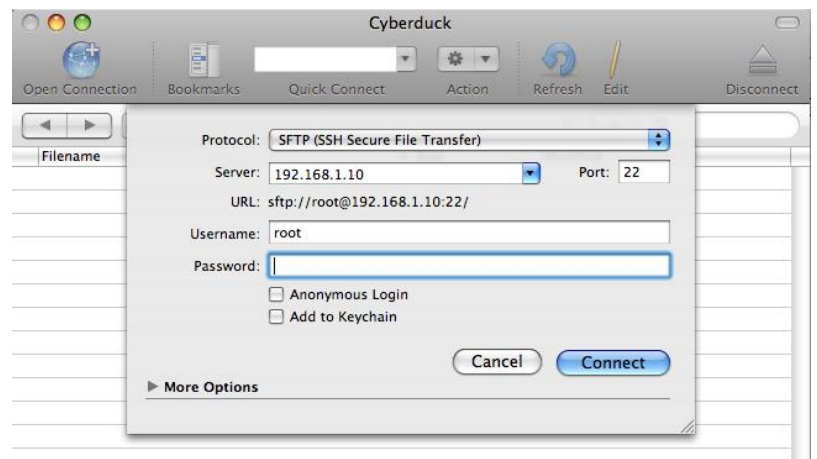
All other tutorials we came across used the full desktop version (with GUI) of [Armbian](#). We would highly recommend to only use the light/server version since a GUI setup always comes with a few downsides. First GUI needs more computing resources which can be used for the miner itself and second a desktop version comes with a lot of bloatware which increases the chances of a security breach. Our tutorial although is that simple and step by step that you will face no issues installing the server version.

Please download

ARMBIAN for Orange PI Prime server version (Ubuntu based)

https://dl.armbian.com/orangepiprime/Ubuntu_xenial_next.7z

3. SSH Client PuTTY/Cyberduck (for remote control)





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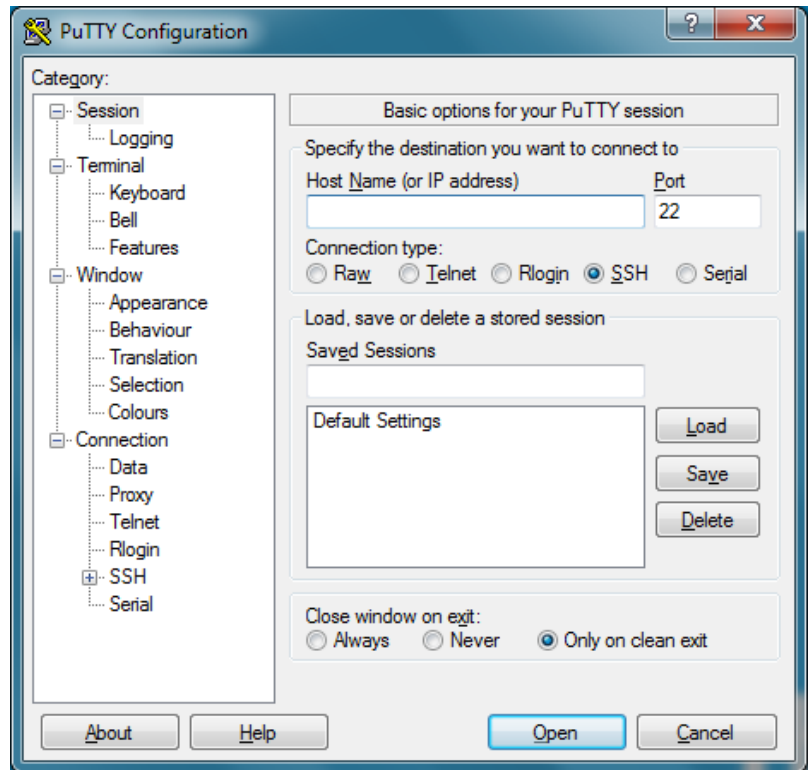
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PuTTY for Windows and Cyberduck for MacOS is used to remote control your Orange PI's from your workstation. It makes it possible to copy & paste the commands given in this tutorial easily into the remote machine (the Orange PI's). Putty is only necessary if you are working on a Windows and Cyberduck only for Mac workstations. All Linux workstations have an SSH client natively incorporated inside the terminal (if not it can be easily installed within the terminal). Later in this tutorial we will also explain how to connect to the Orange PI's using both Putty and Linux SSH.

Please download:

PuTTY for Windows 64bit

<https://the.earth.li/~sgtatham/putty/latest/w64/putty-64bit-0.70-installer.msi>

PuTTY for Windows 32bit

<https://the.earth.li/~sgtatham/putty/latest/w32/putty-0.70-installer.msi>

Cyberduck for MacOS

<https://update.cyberduck.io/Cyberduck-6.4.1.27633.zip>



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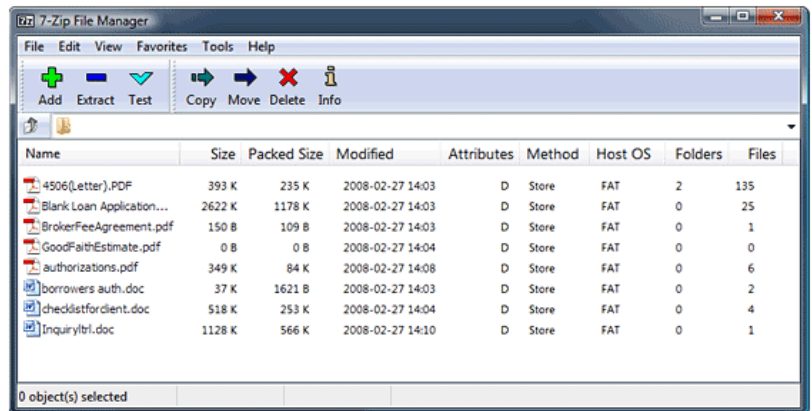
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BITCOIN

1EH9Sw1JgnndJGVnUsQkhhIA6XBynqUFuQ

4. Extractor for 7zip files (needed to unzip Armbian)



Most likely you already have an extractor capable of handling 7zip archives installed on your workstation. In that case you can skip this step.

Please download:

7zip for Windows 64bit

<http://www.7-zip.org/a/7z1801-x64.exe>

7zip for Windows 32bit

<http://www.7-zip.org/a/7z1801.exe>

Keka for MacOS

<http://download.kekaosx.com/>

Linux Debian / Ubuntu based

```
sudo apt-get update -yqq
```

```
sudo apt-get install -yqq p7zip-full
```

Linux CentOS / Fedora based

```
sudo yum install -y -q epel-release
```

```
sudo rpm -U --quiet
```

```
http://mirrors.kernel.org/fedora-
```

```
epel/6/i386/epel-release-6-8.noarch.rpm
```

```
sudo rpm --import /etc/pki/rpm-gpg/RPM-  
GPG-KEY-EPEL-6
```

```
sudo yum repolist
```

```
sudo yum install -y -q p7zip p7zip-plugins
```




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The download part is now finished!

Let's install the just downloaded software on your workstation (but not Armbian of course 😊). We think that process is straight forward, and you won't need any further instructions for that. In case you do - feel free to contact us!

Flashing Orange PI SD Cards

Alright! Now that your environment is perfectly prepared let's get some stuff done.

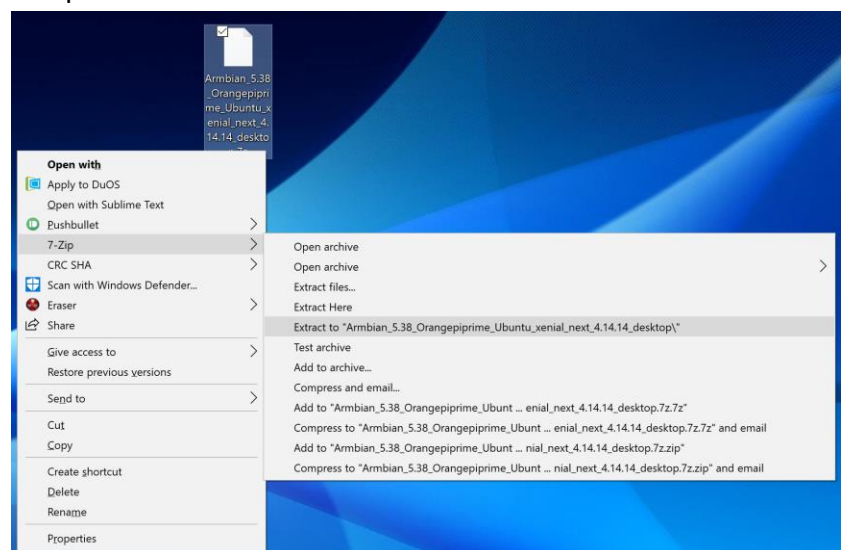
First, we start with flashing all 8 SD cards with Armbian using Etcher. Before we can do that, we need to unzip the Armbian download file.

By doing the steps mentioned above we are going to make Armbian bootable on the Orange PI boards. If you are used to installing an operation system like Windows or Linux this step will come to some surprise for you. Etcher does basically the entire installation process without any user input. You just plug the SD cards into your Orange PI's and as soon as you switch the power supply on the will boot into the ready to use OS right away.

Ready? Let's go 😊

1. Unzip the downloaded Armbian 7zip archive using 7zip.

To do so right click on the archive, select 7-zip and then unzip to...





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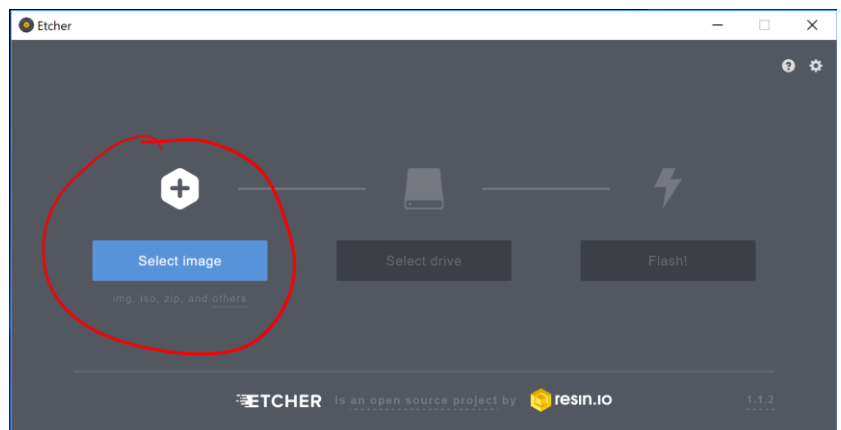
BITCOIN

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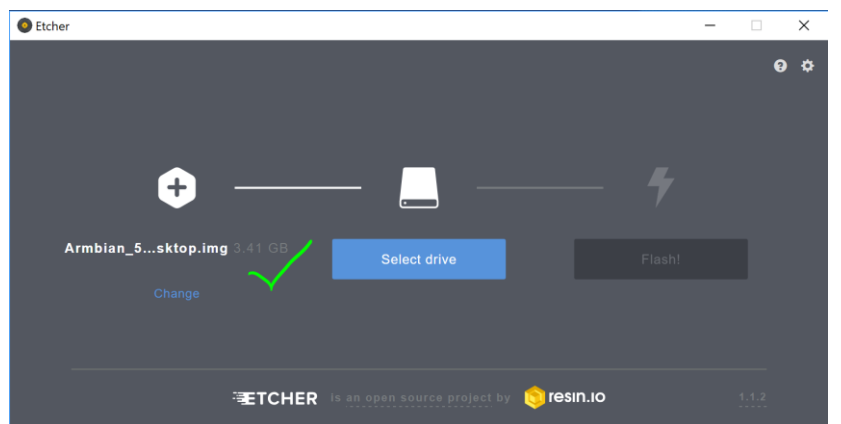
2. As a result, we get a new folder containing the file we going to need to flash the SD card with Etcher. It's a .iso file.

armbian	1/27/2018 7:56 PM	Text Document	19 KB
armbian.txt.asc	1/27/2018 7:56 PM	ASC File	1 KB
Armbian_5.38_Orangepiprime_Ubuntu_xenial_next_4.14...	1/27/2018 7:56 PM	Disc Image File	3,330,048 KB
Armbian_5.38_Orangepiprime_Ubuntu_xenial_next_4.14...	1/27/2018 7:56 PM	ASC File	1 KB
sha256sum.sha	1/27/2018 7:56 PM	SHA File	1 KB

3. Now open Etcher and click on "Select image".



4. Select the Armbian .iso image (highlighted in yellow above) and click "Open".



5. Insert the first microSD card into your computers SD Card reader. In most cases you will need an adaptor for that as shown below (SD or USB both work fine).





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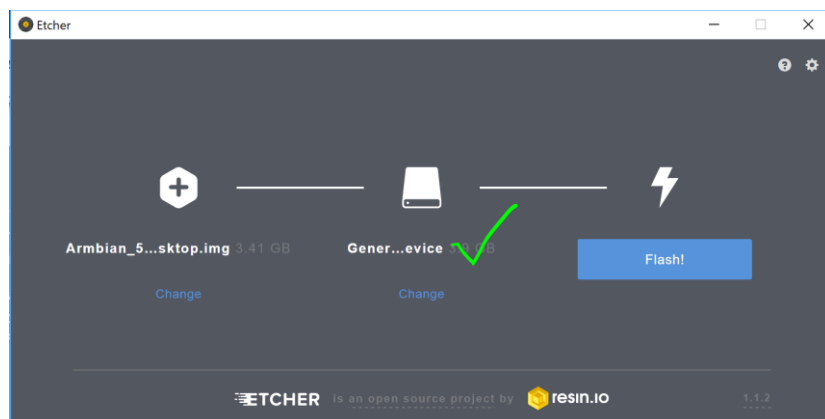
1EH9Sw1JgnndJGVnUsQkhiA6XBynqUFuQ

6. Now we need to select the drive of the microSD card.

Sometimes the card gets selected automatically when it's the only one connected to the PC.

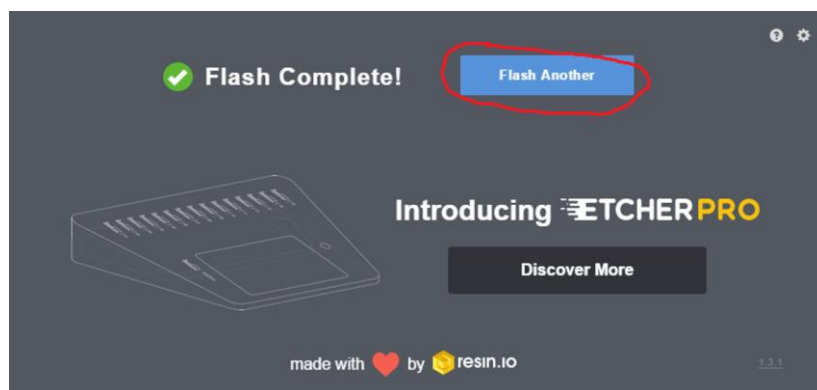
Attention! Be careful and select the right drive. If you accidentally select a wrong drive you completely erase all its data.

To prevent this rather unplug all other memory cards, USB sticks and external hard drives first (if possible).



7. Perfect now we are good to go. Press the “Flash!” button and let's flash 😊.

8. When you see the picture below the first card is successfully flashed. If something went south, please feel free to contact as for assistance.



9. Now repeat the same with the other 7 microSD cards.

10. Well done! Let's take your awesome Skyminer and 4 of the 8 flashed microSD cards and insert the 4 cards to the top row of Orange PI's.

You might think now why only 4 and only the top ones? Simple answer we need an HDMI display and a USB keyboard to prepare the operation system (Armbian) for the



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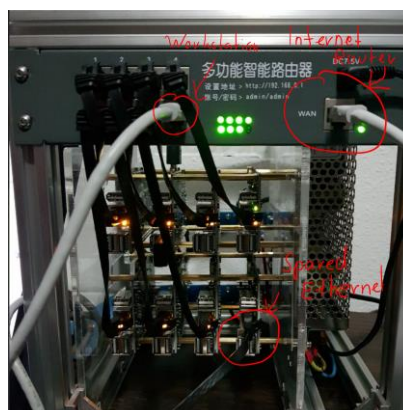
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first start. The bottom row is simply not accessible with an SD cable. So, we do the next steps on 4 cards and when finished we unplug them and plug them to the bottom row. After that we repeat the same steps with the last 4 microSD's.

First Login to Armbian

1. **Connect the Ethernet cables of your miner, internet router and your workstation.** If you haven't it done already, please connect your Skyminer's router (WAN port) with your internet router using an ethernet cable. Also connect the Orange PI's to the routers switch. Because of the hardware design of the Skyminer we need to make one adjustment before we continue. In order to be able to connect with the miner via SSH on a workstation we would need a 9th Ethernet port on the miner but there are only 8 available and those are used for the 8 Orange PI boards. To solve this we have 2 options:
 - a. Use a common network switch or hub and disconnect on OrangePI from the miners switch. Then plug in the ethernet cable from the workstation to the switch and also plug the ethernet from the disconnected OrangePI into the switch. After that plug another ethernet cable into the switch/hub and connect it with the miners switch.
 - b. If you don't have a switch/hub at hand disconnect one OrangePI and continue with the following installation steps. We provide an additional script later in this tutorial to install the disconnected board after the installation of the other OrangePI's is finished. As soon as you have disconnected one board you can continue.





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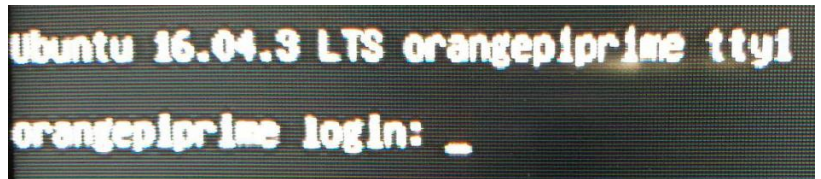
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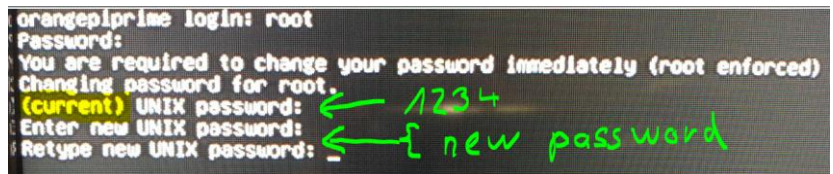
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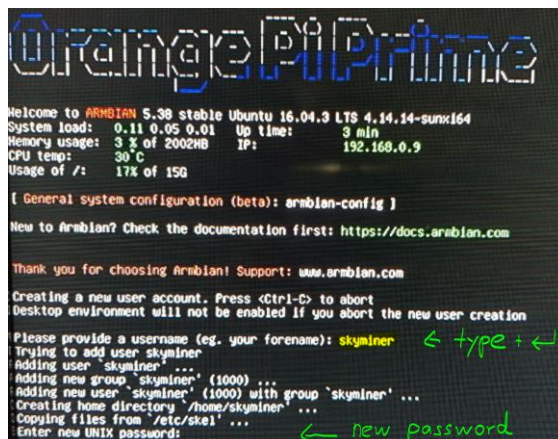
2. **Okay now connect a HDMI display (if not available you can use a HDMI TV, too) and a USB keyboard to OrangePI number 1.** There is no need for a mouse since we decided to don't use the GUI version of Armbian.
3. **Turn on power for OrangePI number 1.** Armbian is booting now and after a few seconds you should see a login screen like in the picture below. If something is not working here, please contact us for assistance.
4. **Login as root with the password 1234.** To do so enter "root" press enter and enter "1234" press enter. Linux usually don't show anything while you type your password. That's normal just type "1234" and press enter.



5. **Now you are required to change the root password.** Select a strong password here with at least 13 digits and one special character. (Use the same password for all other OrangePI's)



6. **Now we are asked to setup a user and give it a password.** Since Armbian is based on Debian/Ubuntu the user can obtain sudo rights. That's why we need to choose a strong password here, too. But again you can use the same for all 8 OrangePI's. As username we have chosen "skyminer", you can choose another one if you want.





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7. Now you are asked a couple of questions about the new user. But you don't need to provide them you can just hit enter and confirm with Y + enter at the end.

Full name: <Enter>

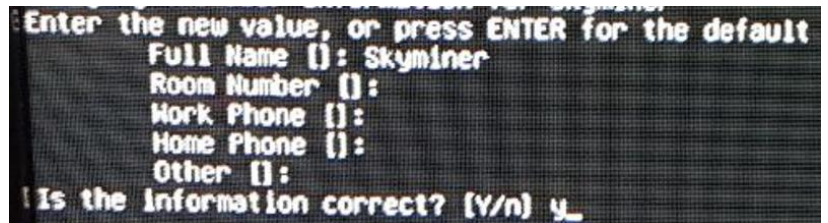
Room number: <Enter>

Work phone: <Enter>

Home phone: <Enter>

Other: <Enter>

Is the information correct: Y + <Enter>



8. Well done! We are logged in as root now. To make the board available for Putty/SSH and to use the webservices like the wallet we need to give it a static IP address. We do this in the next step...
9. In this last step (on the board it self) we give it an static IP. The router of the Skyminer always has the IP 192.168.0.1 which will also be both the standard gateway as well as the DNS server for the OrangePI's. We decided to give the boards the following IP addresses.

OrangePI 1 (Master Board)	192.168.0.101
OrangePI 2	192.168.0.102
OrangePI 3	192.168.0.103
OrangePI 4	192.168.0.104
OrangePI 5	192.168.0.105
OrangePI 6	192.168.0.106
OrangePI 7	192.168.0.107
OrangePI 8	192.168.0.108

Now let us change the IP of the board according to the list above. For the example we use OrangePI 1.

In the terminal type and press enter afterwards:

`nano /etc/network/interfaces`



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```
Enter the new value, or press ENTER for the default
Full Name []: skytera9
Room Number []:
Work Phone []:
Home Phone []:
Other []:
Is the information correct? [Y/n] y

Dear skytera9, your account skytera9 has been created and is suc
Please use this account for your daily work from now on.

root@orangepiprime:~# nano /etc/network/interfaces
```

The network configuration file appears and we are about to make changes inside the green surrounded block (eth0):

```
GNU nano 2.5.3 File: /etc/n
source /etc/network/interfaces.d/*

# Wired adapter #1
allow-hotplug eth0
no-auto-down eth0
iface eth0 inet dhcp
#address 192.168.0.100
#netmask 255.255.255.0
#gateway 192.168.0.1
#dns-nameservers 8.8.8.8 8.8.4.4
#hwaddress ether # if you want to set MAC manually
# pre-up /sbin/ifconfig eth0 mtu 3838 # setting MTU for DHCP, static just: mtu 3838

# Wireless adapter #1
# Armbian ships with network-manager installed by default. To save you time
# and hassles consider using 'sudo nmtui' instead of configuring Wi-Fi settings
# manually. The below lines are only meant as an example how configuration could
# be done in an anachronistic way:
#
#allow-hotplug wlan0
#iface wlan0 inet dhcp
#address 192.168.0.100
#netmask 255.255.255.0
#gateway 192.168.0.1
#dns-nameservers 8.8.8.8 8.8.4.4
# wpa-conf /etc/wpa_supplicant/wpa_supplicant.conf
# Disable power saving on compatible chipsets (prevents SSH/connection dropouts over WiFi)
#wireless-mode Managed
#wireless-power off

# Local loopback
auto lo
iface lo inet loopback
```

Now lets modify the entries like the following:

# Wired adapter #1	<i>stays as it is</i>
allow-hotplug eth0	<i>stays as it is</i>
#no-auto-down eth0	<i>insert # at the beginning</i>
iface eth0 inet static	<i>delete dhcp and type static</i>
address 192.168.0.101	<i>remove # at the beginning and type IP from the table above (ex:192.168.0.101)</i>



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SOFTWARE PART

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<https://github.com/TheSKYpeople/SkyInstallScript>

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It took us many hours of hard work to put this tutorial together and to figure out how to setup a Skyminer in the first place.

Please consider a donation. Thank you!

SKYCOIN

zrwaGKR8oG7juYLHqgj7zwxH4bGYPEwW
TB

ETHEREUM

0x25a4cc8003a626e0b1d0be4626dc33e82a00
96a0

BITCOIN

1EH9Sw1JgnndJGVnUsQkhiA6XBynqUFuQ

netmask 255.255.255.0

*remove # at the
beginning*

gateway 192.168.0.1

*remove # at the
beginning*

dns-nameservers 192.168.0.1

*remove # and replace
8.8.8.8 8.8.4.4 with
192.168.0.1*

Now your screen should look like this:

```
GNU nano 2.5.3 File: /etc/network/interfaces
source /etc/network/interfaces.d/*

# Wired adapter #1
allow-hotplug eth0
#no-auto-down eth0
iface eth0 inet static
address 192.168.0.200 > IP from table
netmask 255.255.255.0
gateway 192.168.0.1
dns-nameservers 192.168.0.1
# hwaddress ether # if you want to set MAC manually
# pre-up /sbin/ifconfig eth0 mtu 3838 # setting MTU for DHCP, static just: mtu 3838
```

The changes must be saved to be put into effect.

We do this by pressing **Ctrl+x**, then type **Y** and **press enter**

After that the window automatically closes.

Now you are back in the terminal and we must reboot.

Type **reboot now** and press enter.

The preconfiguration of the board is finished at this point.

10. Okay now repeat the same steps in this section (First Login to Armbian) on the other 3 plugged in microSD cards/OrangePI's. When you are finished unplugged them and insert them into the bottom row of your OrangePI's, plug in the left 4 microSD's to the top row and do the same there. After that you are finished with this section.

Setup Putty (Win) or Keka (MacOS)

In order to be able to connect to the terminal of your OrangePI's remotely to easily maintain them from your workstation we need to setup Putty. If you using a Linux workstation theres is usally nothing to do since most Linux derivats come with an SSH incorporated in the terminal shell. Mac users gonna need Keka but for the purpose of this



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zrwaGKR8oG7juYlHqgj7zwxH4bGYPEwW
TB

ETHEREUM

0x25a4cc8003a626e0b1d0be4626dc33e82a00
96a0

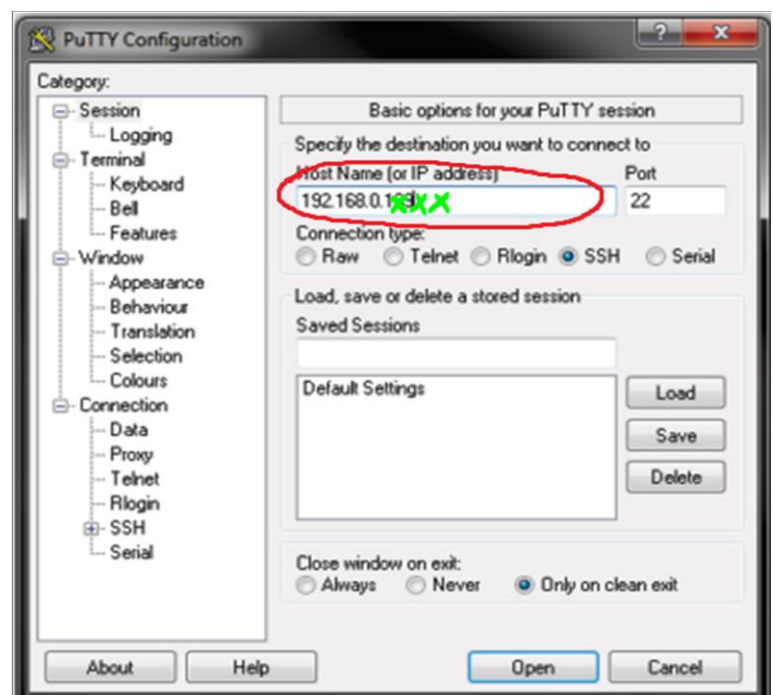
BITCOIN

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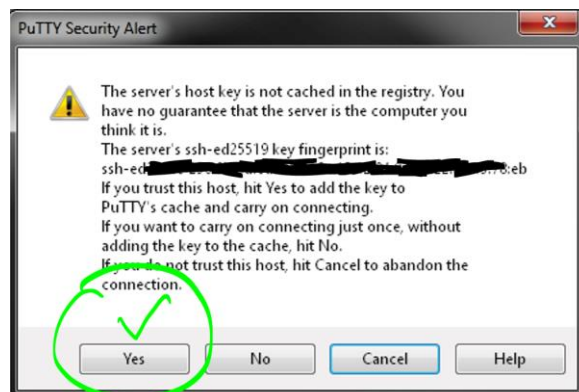
tutorial we will only show how to use Putty on Windows. If you have problems installing Keka on Mac or use the SSH client on Linux workstations feel free to contact us for further assistance.

Let's get started:

1. **Open the Putty file you have downloaded at the beginning of this tutorial.** In the window that opens type the IP address of the first OrangePI board into the red circled area and replace the three green "X" with the board you want to connect which would be according to list of IP's above **192.168.0.101** for OrangePI 1 (the master board). After that click the "Open" button.



2. **The following security alert is normal and can be easily ignored.** Since you created the certificate yourself and we think you are trusting your self 😊. Just click on "Yes".





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SKYCOIN

zrwaGKR8oG7juYLHqgj7zwxH4bGYPEwWTB

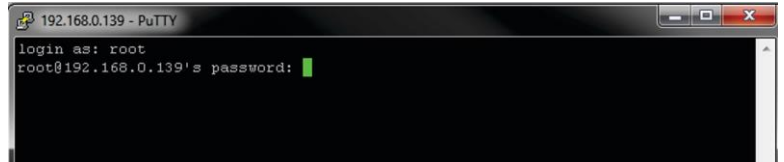
ETHEREUM

0x25a4cc8003a626e0b1d0be4626dc33e82a0096a0

BITCOIN

1EH9Sw1JgnndJGVnUsQkhhiA6XBynqUFuQ

3. You now have a remote terminal shell on your OrangePI and all commands you run will be run on the OrangePI not on your local machine.
4. You need to login to the OrangePI with your user and password. Type "root" when asked "Login as" and when you asked for the password type the one you have chosen when you first started the OrangePI. Be careful it's the root password not the user password.



5. Congratulations now you can fully control the OrangePI from your workstation. We are finished here and you can move to the next step.

Installation

1. Download the Install Script from our Github account. In the terminal type or copy paste the following command:

```
cd && wget  
https://raw.githubusercontent.com/TheSKYpeople/SkyInstallScript/master/SkyInstallScript.sh
```

Alright lets do some magic. Run the script! In the terminal shell type or copy paste the following command:

```
sh ~/SkyInstallScript.sh
```

2. You will be asked for the root password you used for all boards. This is needed to automatically login to the OrangePI boards 2-8 and also install the software there automatically. Everything is now done automatically you just need to wait a couple of minutes. You will be informed as soon the installation is finished.

The password is neither stored nor sent out, you can easily verify that by reviewing the code or ask somebody who can and you trust.

CONGRATULATIONS!!! Your Skyminer is now fully installed