

HIQ TIPS & TRICKS



Henlo my frens

Are you interested to setup your own LN node
hustle free and in a couple of hours?

Are you interested in diving into the world of Bitcoin
and the Lightning Network with full control over your own transactions?
Setting up a Start9 DIY node with Alby's tools is a great way to start.

What You Will Need:

1. An old computer that you don't use anymore
2. hard disk - any size will work but 2TB is nice for bitcoin
3. usb stick
4. Basic understanding of Bitcoin and Lightning Network
5. at least 25k sats in a Lightning wallet
6. Internet connection



Minimum OS Requirements

The specs below would be acceptable
for a server running
minimal services with minimal storage needs:

Single vCPU Core 2Ghz (boost)
4GB RAM
64GB Storage
Ethernet port

Recommended OS Requirements

If you intend to run Bitcoin or
store any meaningful amount of data,
we recommend the following:
Quad-Core CPU 2.5Ghz+ (boost)
8GB+ RAM
1TB+ Storage

Step 1 : Install StartOS on our device

We need to download the start9 image file from start9 github

download the x86_64 nonfree.iso

[startos-0.3.5.1-39de098_x86_64-nonfree.iso](https://github.com/start9/startos/releases/download/v0.3.5.1/startos-0.3.5.1-39de098_x86_64-nonfree.iso)

start9 github link



then we need the balenaEtcher app to flash the iso in a usb stick

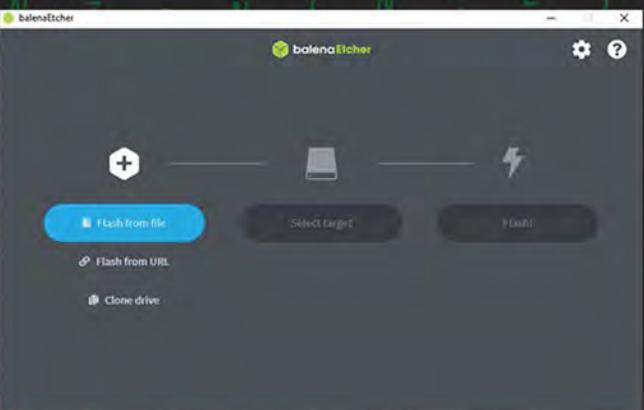
balenaEtcher link



select flash from file
and point the iso from start9

select target, your usb stick

press flash and wait to finish



After we have our flash usb ready, plug it in the computer and boot from the usb
(usually you have to press F2 or F12 or esc to find the boot menu depending the brand)

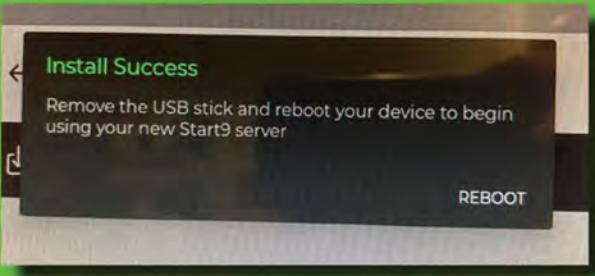
when the usb boots press "Install StartOS"
then select the installation disk



set your Start9 password and safe backup it.

After few minutes depending your hardware the setup will complete.

You will have a message to reboot and remove usb stick.
(small tip is to press reboot and remove the usb stick when you see the monitor go black)



Login with your password and we end up to start9 dashboard.

Go to system - about,
there you will find the web addresses
to access your node throught tor or local network
(For a secure local connection and faster Tor experience it is advised to
download and trust your server's Root Certificate Authority),

Now we have start9 installation complete.



Important, don't skip or forget to go to system - backups and create a backup of startOS
just plug an external hard disk or usb stick and press create backup

Step 2: Setting Up Alby Hub



Alby

Alby Hub is an open-source, self-custodial Lightning wallet that integrates directly with your node. It's like your personal bank, but you're the only one with the keys.

Access the Start9 Marketplace: After your StartOS is up and running, go to the Start9 Marketplace within your server's interface.



Alby Hub
Self-custodial Lightning wallet with integrated node.
Installed

BTCPay Server
Bitcoin and cryptocurrency payment processor and POS system.

Install Alby Hub:
Look for Alby Hub under the "Lightning" section.
Click to install.

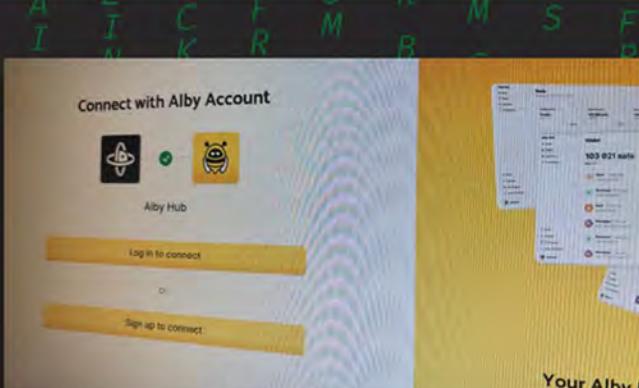
Alby Hub has been automatically configured with recommended defaults. Make whatever changes you want, then click 'Save'.

Lightning Implementation
LND on this server
Alby Hub embedded light node
OK CANCEL

Configure Alby Hub
and select AlbyHub embedded light node
Now we are ready to launch UI.



Create an Alby account so you will be able to link Alby hub, Alby Go and Alby extension. After connecting your account to Alby hub create your password and back it up to a safe place.



After that we are ready for the last 5 steps to have our own LN node up and running.



Alby 5 steps to open channel and start receiving funds



1. Open your first channel
you will be prompt to pay around 21k sats
(depending the fees at the moment of channel opening)
to open a channel with 1m sats
capacity for inbound and outbound 50k
(it may take some time the channel to be established, you will be notify when ready - also you can adjust your limits)

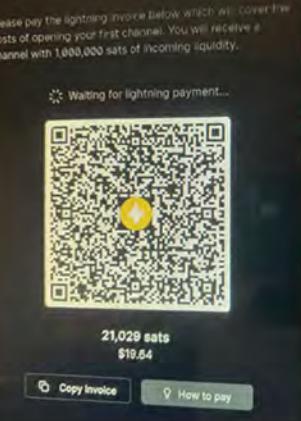
2. link to your Alby account

3. Receive or send your first transaction on the Lightning network

4. Connect your first app like Alby Go so you can have your LN wallet on your mobile phone.

5. Backup your keys, please note your 12 seed backup offline

(Never take photo or enter the seed online cloud
you will need it only if you need to recover your account)



Tip :

go to your alby account settings and make your own custom lightning address

By setting up your Start9 node with Alby Hub, Alby Go, and the Alby Extension, you're not just managing Bitcoin; you're owning it, using it, and securing it with your own setup. This DIY approach gives you control, privacy, and the ability to interact with the Lightning Network on your terms. Remember, each step builds upon the last, creating a robust, user-friendly environment for your Bitcoin activities. Enjoy the sovereignty and simplicity of managing your own Lightning node!

Feel free to test send some sats on our Stackchain Magazine Tip Jar



Not Financial advice, tutorial for education purposes

