

# Abelian GPU Mining Manual

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This document describes how to run a SOLO GPU mining software.

Please refer to *Abelian Software Basics* to understand the software architecture and the SOLO mining or mining pool choices.

The official Abelian download page is located at <https://abelian.info/downloads>. To interact with other miners, developers and users, visit the official Discord server at <https://discord.gg/cPUhCmsw>.

All the operations are carried out via the Command Line Interface (CLI). For Linux, open Terminal; and for Windows, open PowerShell or any of your favorite shell application.

## 1. Installation

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Download two compressed files, something like **abec-linux-amd64-v0.11.10.tar.gz** and **abelminer-linux-amd64-v2.0.2.tar.gz** for Linux running on an x86 architecture (e.g. Intel chips).

Unzip them and put them under the same folder `~/abel/`:

- ```
1. 1. ~/abel/abec-linux-amd64-v0.11.10/  
2. 2. ~/abel/abelminer-linux-amd64-v2.0.2/
```

Go to `~/abel/abec-linux-amd64-v0.11.10/`, and run

- ```
1. # macOS and Linux  
2. ./start_abec.sh  
3. # Windows  
4. abec
```

Then press control+C to stop it. By doing this, we create a **configuration folder** for **abec** located at:

- Windows: C:\Users\[username]\AppData\Local\Abec
- macOS: /Users/[username]/Library/Application Support/Abec
- Linux: /home/[username]/.abec

## 2. Create a wallet

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Assume that you already have a wallet created.

The easiest way is to download the Abelian Desktop Wallet from the official download page, and create a wallet. Then follow the steps below to copy the initial address of your wallet to the **abec** configuration file **abec.conf**.

Alternatively, you may follow the *Abelian CLI Wallet Manual* or *Abelian CLI Lightweight Wallet* to create a wallet.

## 3. Configuration - abec

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Go to the configuration folder of **abec** and make changes as below in **abec.conf**.

You can let other Abelian nodes on the mainnet know your presence through broadcasting your IP address. This works only if you have a public IP or have some IP forwarding configured at your router:

```
1. externalip=223.18.227.111
```

Allow **abelminer** to connect to **abec** for GPU mining:

```
1. enablegetwork=1
```

If you have multiple GPU mining machines connecting remotely to this single **abec**, make sure that port 8668 is opened:

```
1. rpclistengetwork=:8668
```

Set the initial address of your wallet to miningaddr:

```
1. miningaddr = [your initial address]
```

## 4. Run a Full Node - abec

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Go to `~/abel/abec-linux-amd64-v0.11.10/` and run a full node (abec):

```
1. # macOS and Linux
2. ./start_abec.sh
3. # Windows
4. abec
```

## 5. Run a GPU miner - abelminer

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Go to `~/abel/abelminer-linux-amd64-v2.0.2/` and run the GPU mining client (**abelminer**):

```
1. # Linux and Windows (PowerShell)
2. ./abelminer -P http://127.0.0.1:8668
```

**Note:**

If **abelminer** and **abec** are on different machines and/or listening port for getwork is configured, use the general command `./abelminer -P http://[abec-host-IP]:[Port]` .