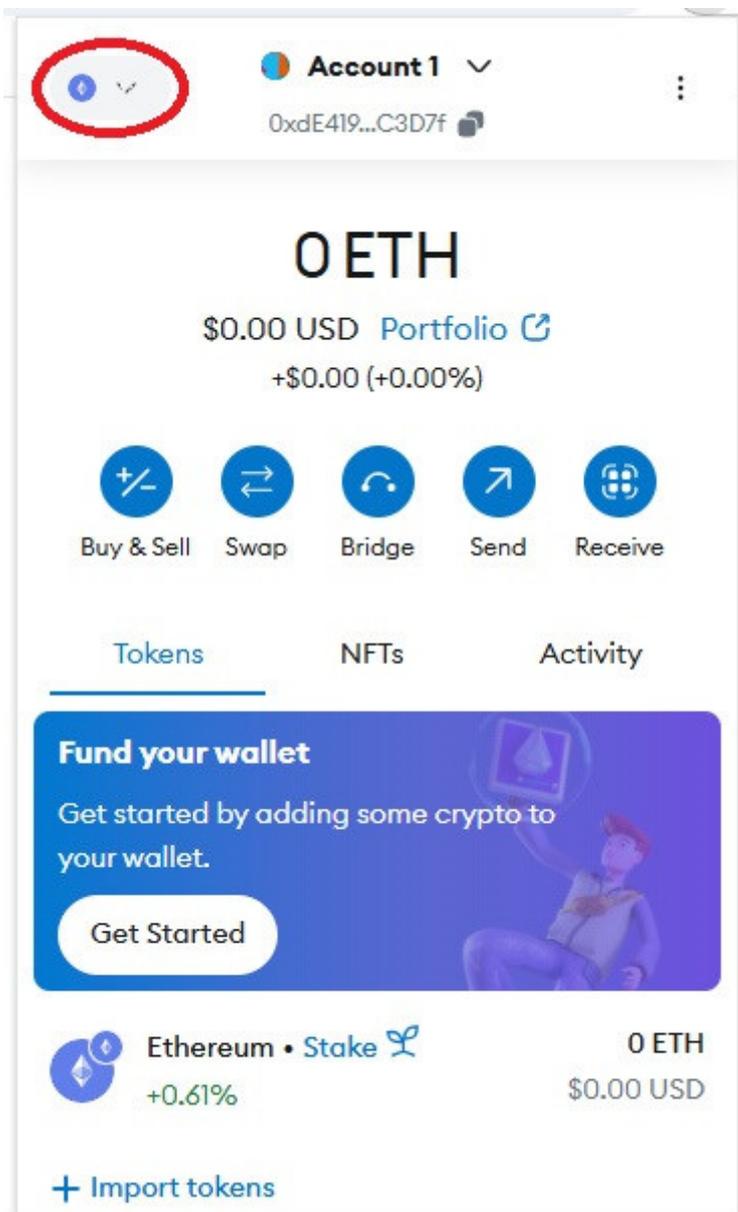


Usage

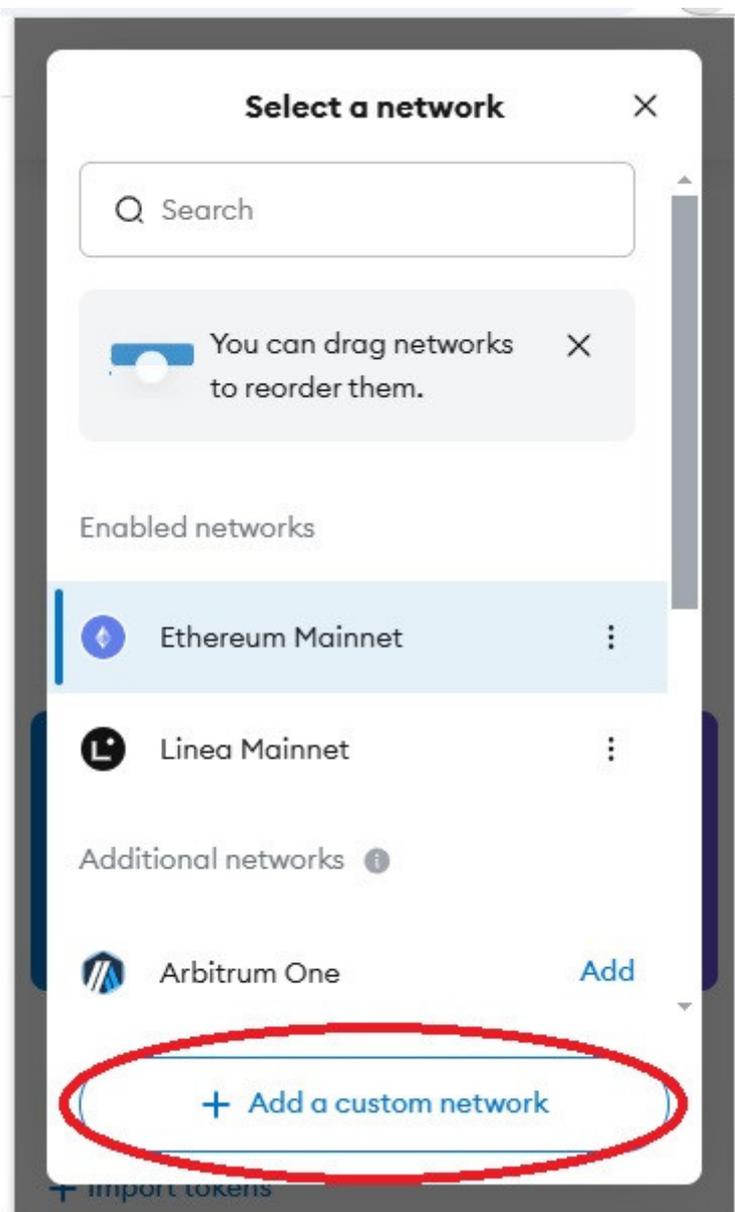
- [Setting up Metamask wallet for BPX Chain \(Chrome extension\)](#)
- [Setting up Metamask wallet for BPX Chain \(Mobile app\)](#)
- [Installing and running BPX full node on Windows](#)
- [Installing and running BPX full node on Debian / Ubuntu](#)

Setting up Metamask wallet for BPX Chain (Chrome extension)

1. Open **MetaMask**. Expand the list of available networks.



2. Scroll to the bottom and select "**Add a custom network**".



3. Fill out the form as follows and click "**Save**":

Network name: BPX Chain

Default RPC URL: <https://rpc.bpxchain.cc>

Chain ID: 279

Currency symbol: BPX

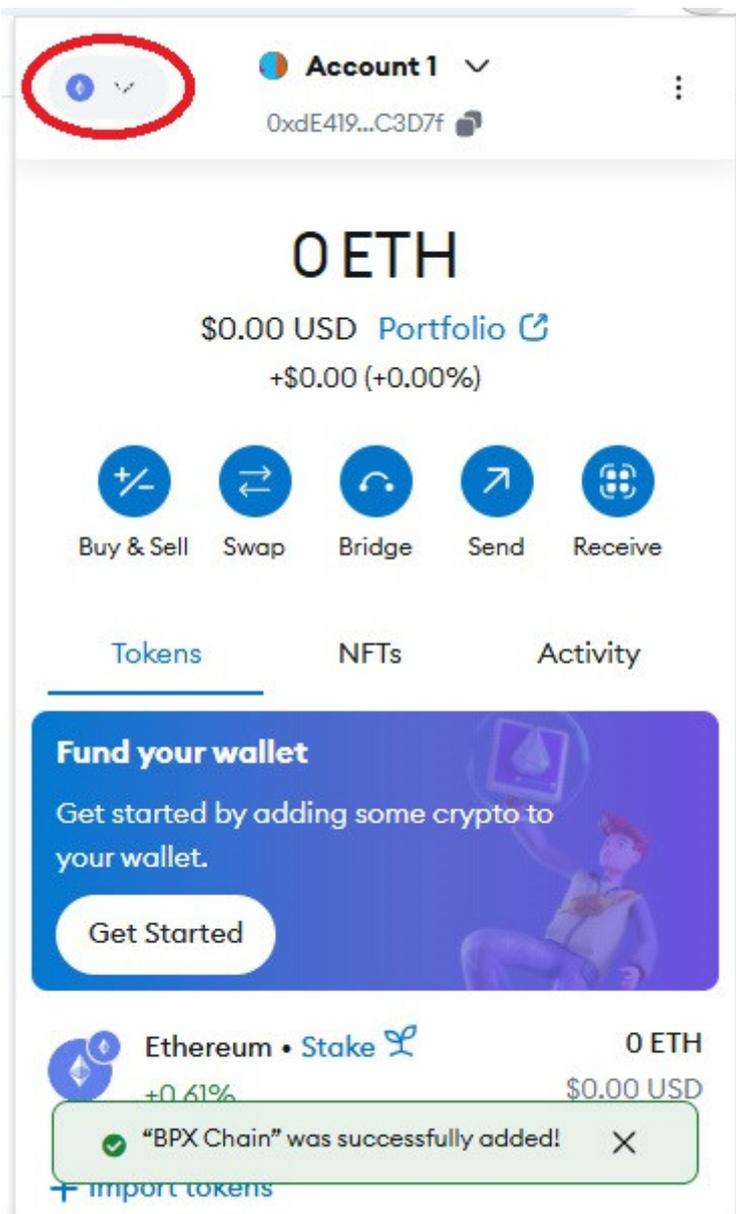
Block explorer URL: <https://explorer.bpxchain.cc>

The image shows a mobile application screen titled "Add a custom network". The screen contains several input fields and a button:

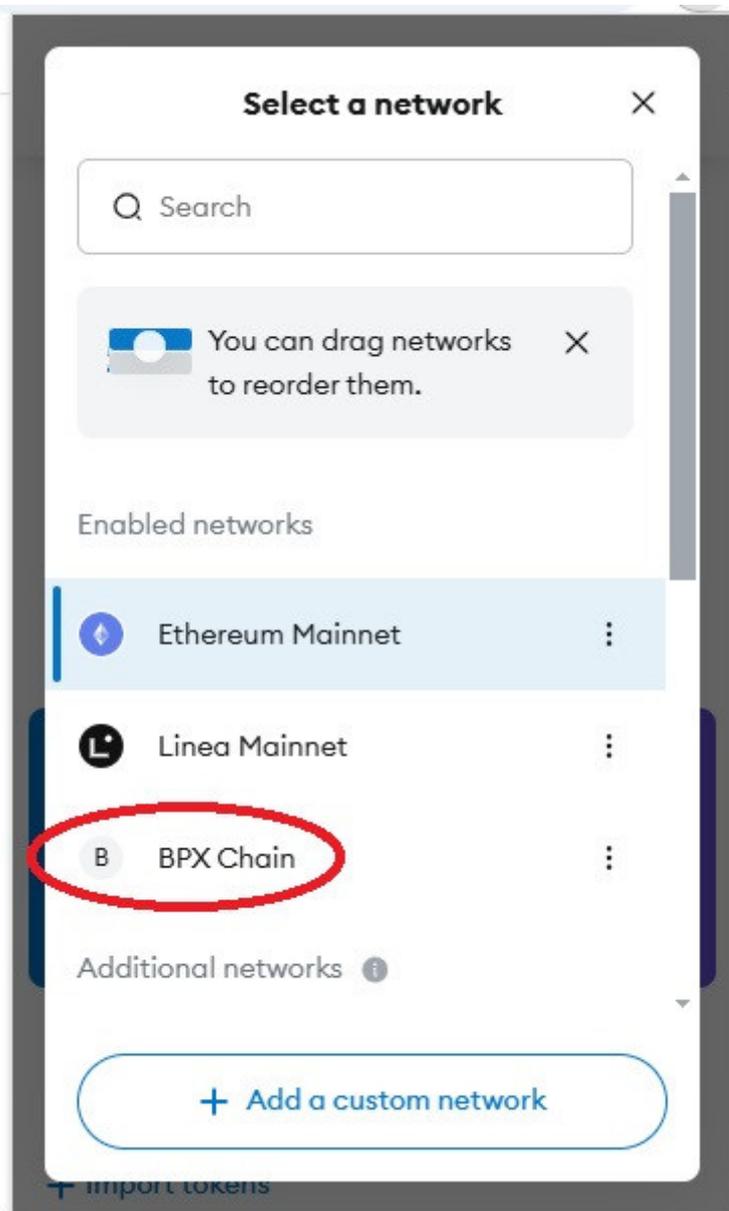
- Network name:** A text input field containing "BPX Chain".
- Default RPC URL:** A dropdown menu showing "rpc.bpxchain.cc" with a downward arrow.
- Chain ID:** A text input field containing "279".
- Currency symbol:** A text input field containing "BPX".
- Block explorer URL:** A dropdown menu showing "explorer.bpxchain.cc" with a downward arrow.
- Save:** A large blue button at the bottom of the form.

At the bottom left of the screen, there is a partially visible link that says "import tokens".

4. You should see a success notification. Expand the list of available networks again.



5. Select "**BPX Chain**", which should now be on the list.



6. Your wallet is now ready to use.

B

Account 1

0xdE419...C3D7f

0 BPX

\$0.00 USD [Portfolio](#)



Buy & Sell



Swap



Bridge



Send



Receive

Tokens

NFTs

Activity



BPX

0 BPX

\$0.00 USD

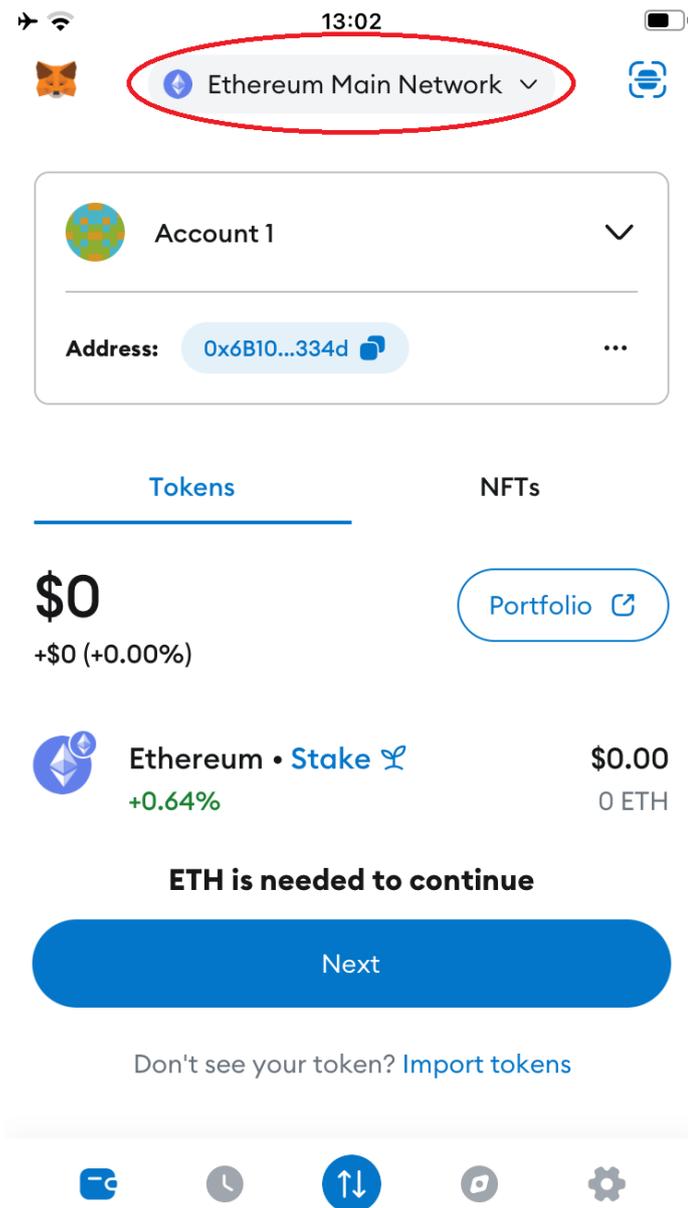
+ Import tokens

Refresh list

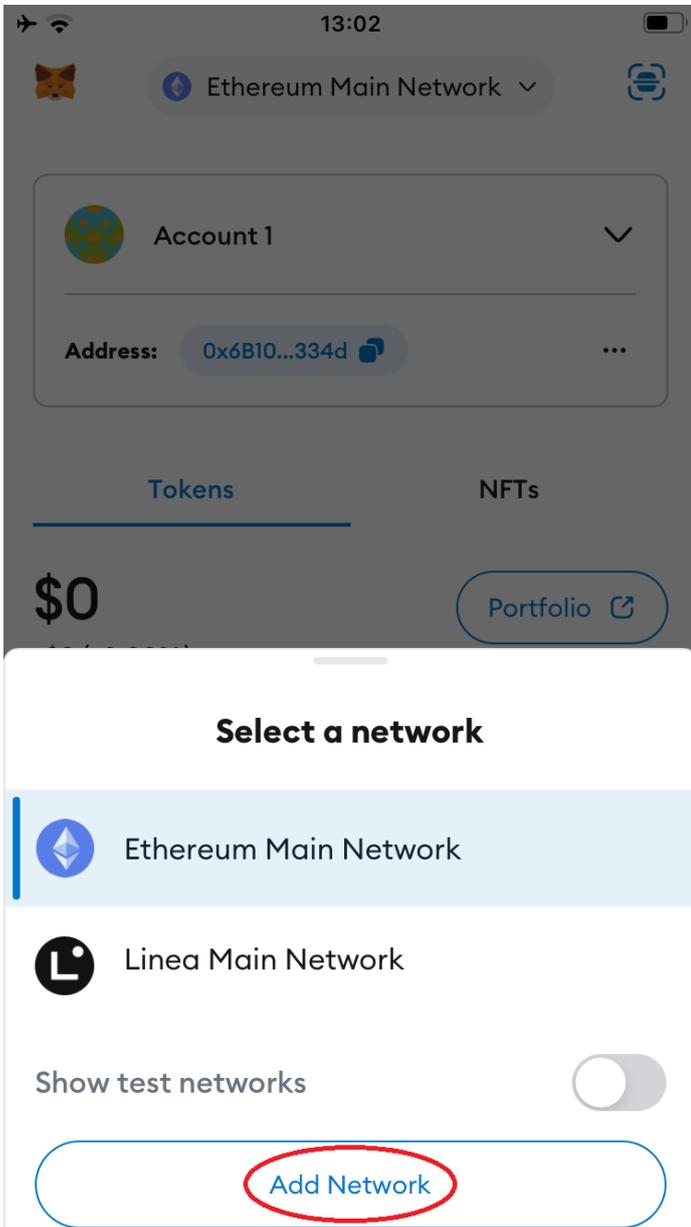
MetaMask support

Setting up Metamask wallet for BPX Chain (Mobile app)

1. Open **MetaMask**. Expand the list of available networks.



2. Select "**Add Network**".



3. Go to the "**Custom networks**" tab.



13:02



Networks



Popular

Custom networks

 Avalanche Mainnet C-Chain	Add
 Arbitrum One	Add
 BNB Chain	 Add
 Base	 Add
 Optimism	Add
 Palm	Add
 Polygon Mainnet	Add
 zkSync Era Mainnet	 Add

4. Fill out the form as follows and confirm:

Network name: BPX Chain

Default RPC URL: <https://rpc.bpxchain.cc>

Chain ID: 279

Currency symbol: BPX

Block explorer URL: <https://explorer.bpxchain.cc>



13:03



Networks



Popular

Custom networks

record your network activity. Only add custom networks you trust.

Network Name

BPX Chain

RPC Url

https://rpc.bpxchain.cc

Chain ID

279

Symbol

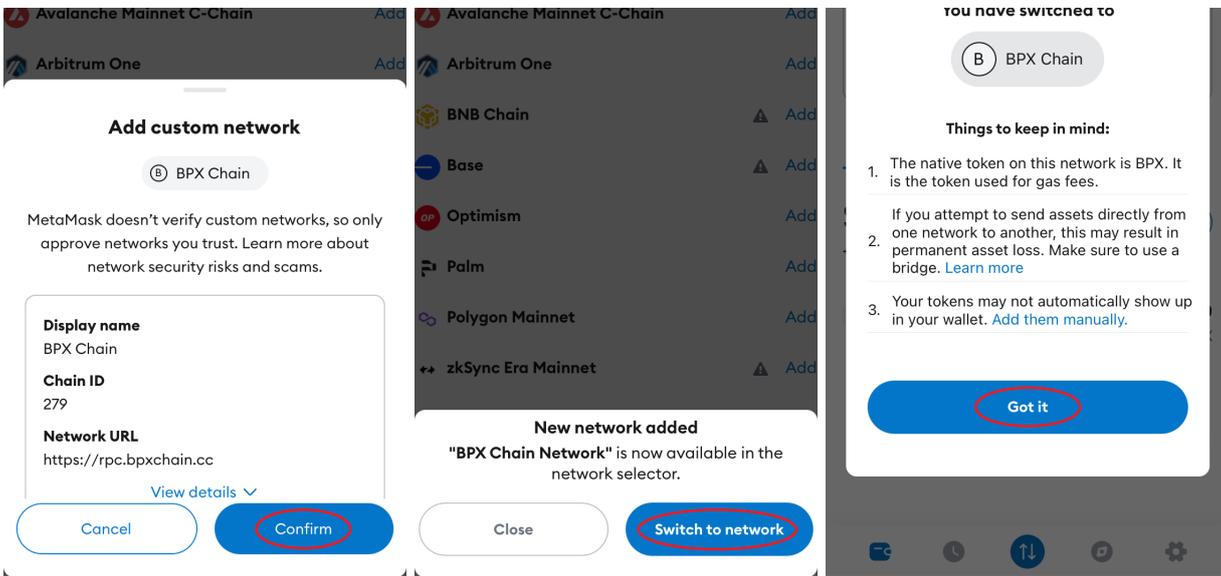
BPX

Block Explorer URL

https://explorer.bpxchain.cc

Add

5. Proceed through the next steps by tapping "**Confirm**", "**Switch to network**", and "**Got it**".



6. Your wallet is now ready to use.



13:03



BPX Chain



Account 1



Address:

0x6B10...334d



Tokens

NFTs

\$0

+\$0 (+0.00%)

Portfolio



BPX

\$0.00

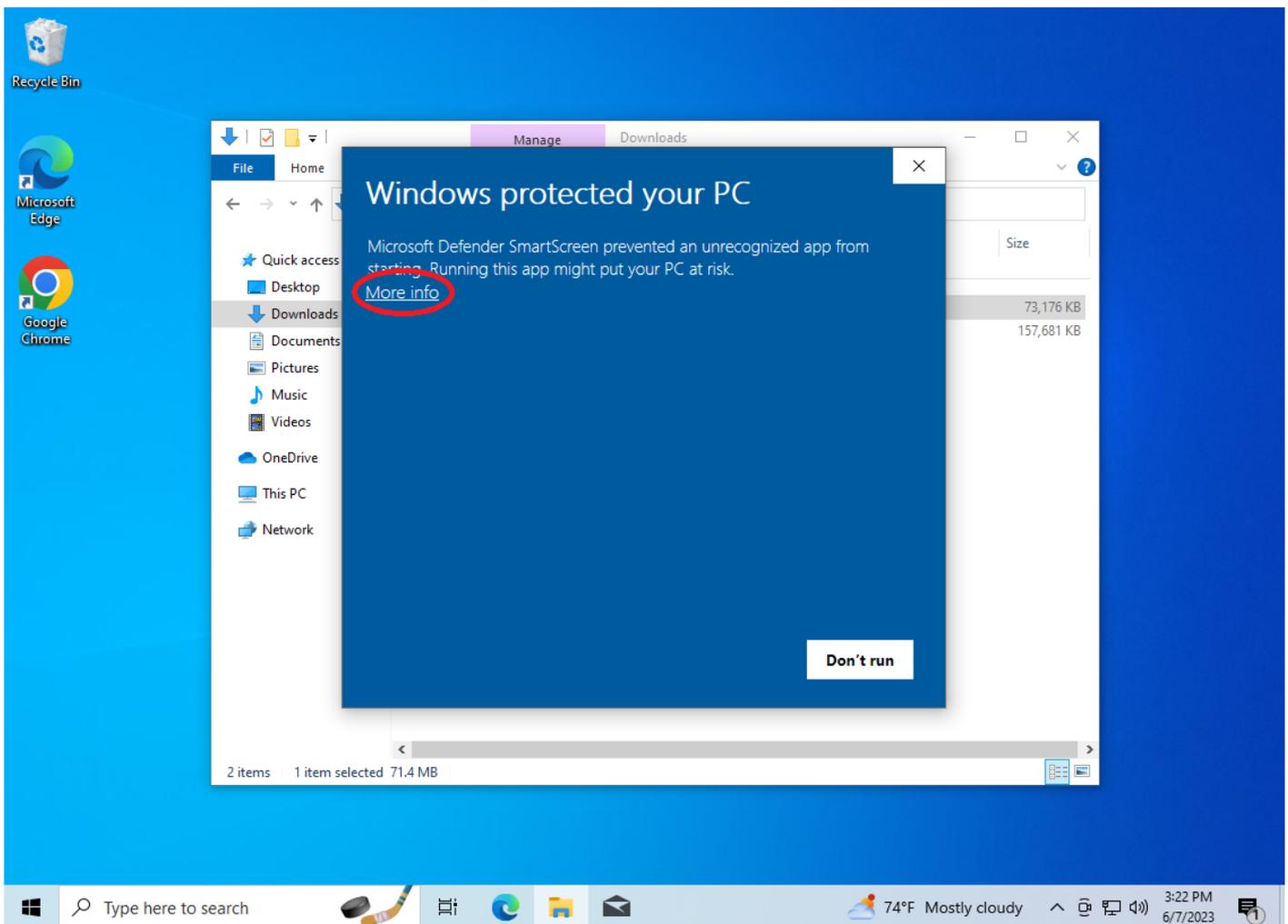
0 BPX

Don't see your token? [Import tokens](#)



Installing and running BPX full node on Windows

1. Download the EXE installers for the latest releases of the **Execution Client** and **Beacon Client**.
2. Run the **Execution Client** installer first. Depending on your Windows version, different warnings may appear. In these cases, click "**More info**", then select "**Run anyway**", and "**Yes**".





Windows protected your PC

Microsoft Defender SmartScreen prevented an unrecognized app from starting. Running this app might put your PC at risk.

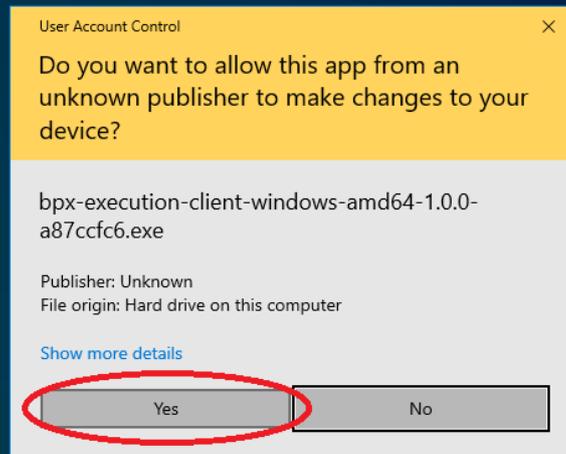
App: bpx-execution-client-windows-amd64-1.0.0-a8
7ccfc6.exe

Publisher: Unknown publisher

Size
73,176 KB
157,681 KB

Run anyway **Don't run**

2 items 1 item selected 71.4 MB



3. Follow all the installer steps by clicking "**I Agree**", "**Next**" and "**Install**". Once the installation process is complete, close the installer.



BPX Execution Client 1.0.0-stable-a87ccfc6 Set...

Please review the license agreement before installing BPX Execution Client 1.0.0-stable-a87ccfc6. If you accept all terms of the agreement, click I Agree.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<https://fsf.org/>>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

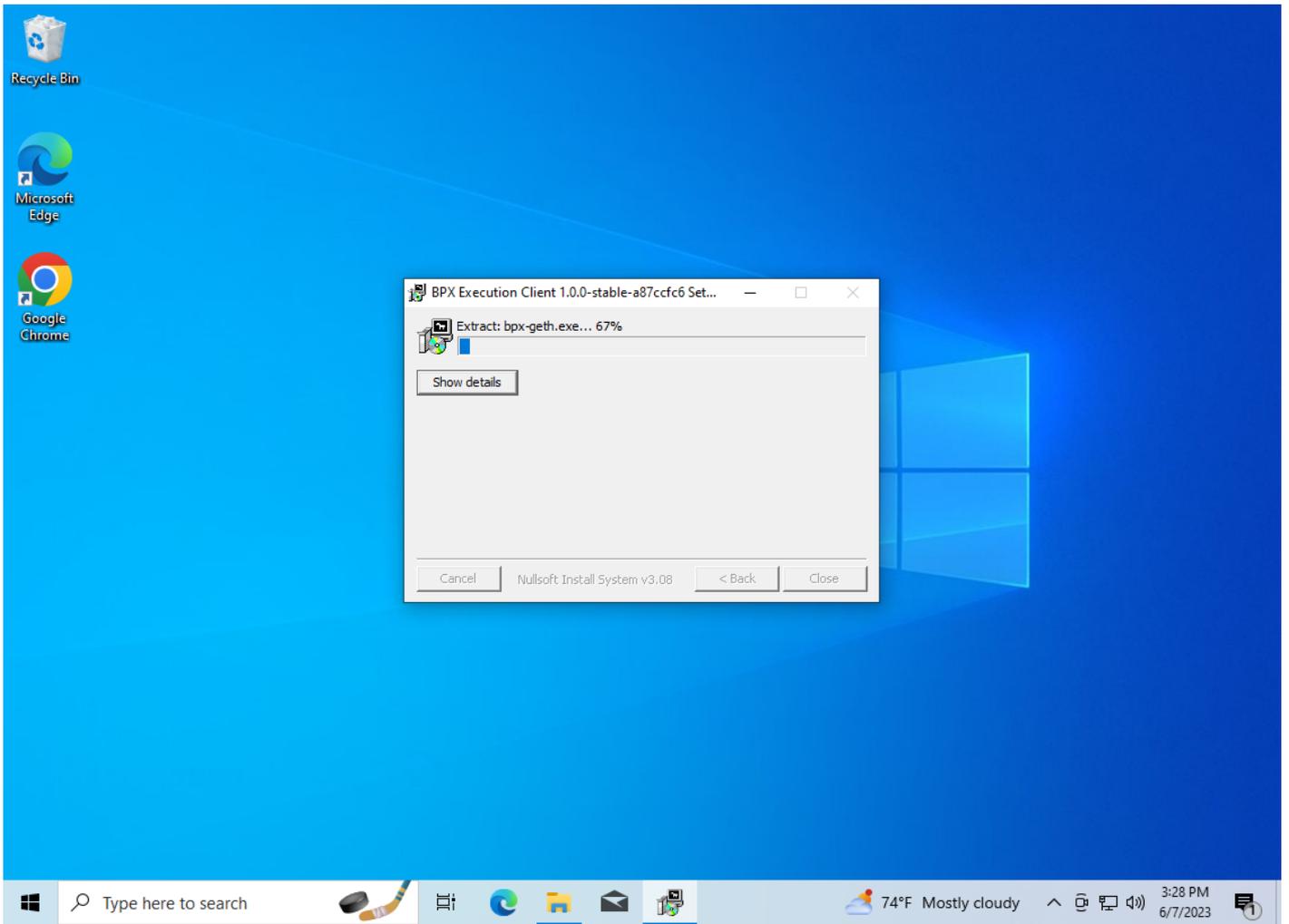
Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

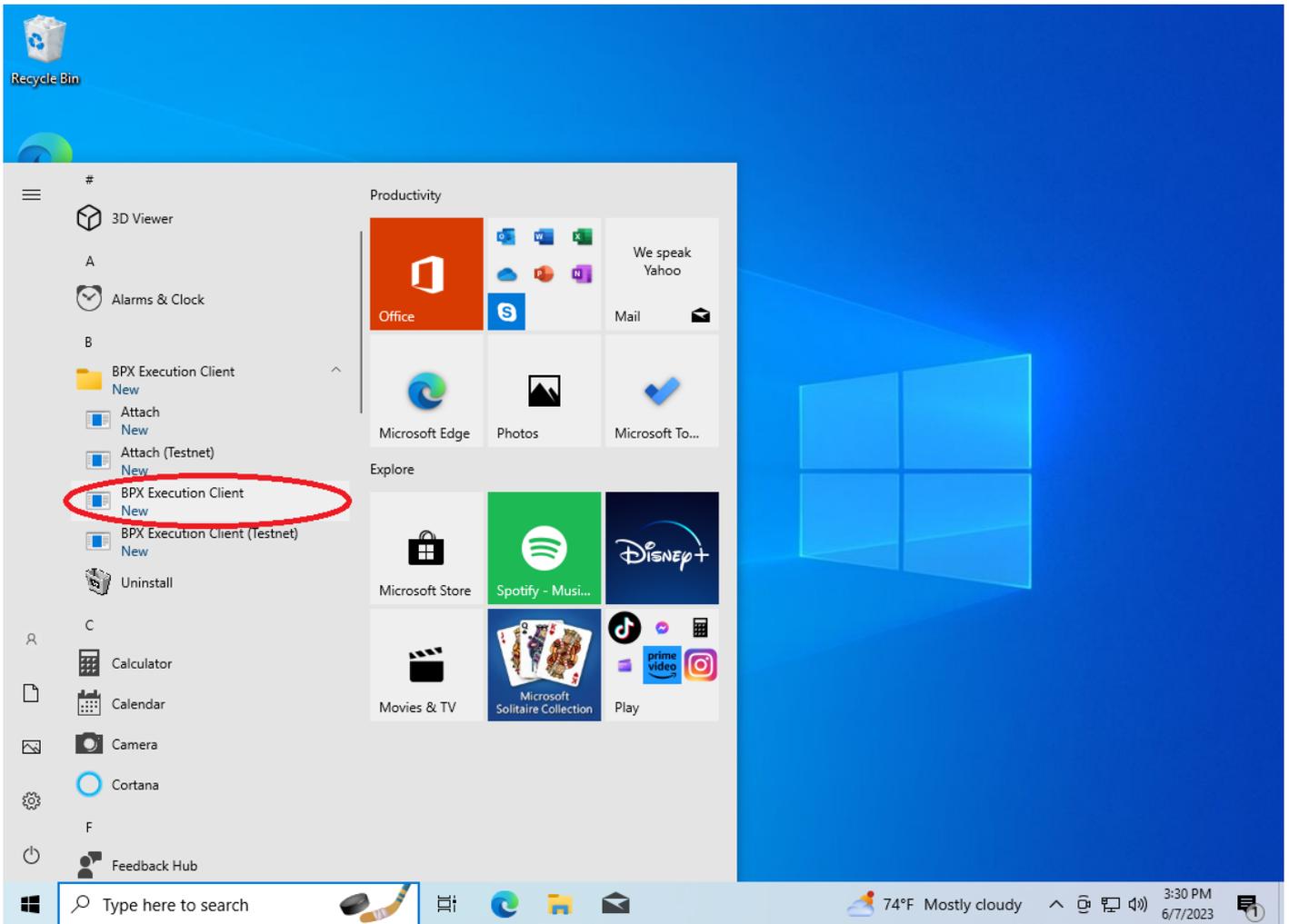
The licenses for most software and other practical works are designed

Nullsoft Install System v3.08

Windows taskbar with search bar, taskbar icons (Recycle Bin, File Explorer, Mail, Print), system tray (74°F Mostly cloudy, 3:27 PM 6/7/2023, notification icons)



4. A shortcut to the **BPX Execution Client** will be created in the Start Menu. Launch it from there.



5. Allow the Windows Firewall to open the execution client port. The execution client will start, and you should see its console window.



Recycle Bin



Microsoft Edge



Google Chrome

BPX Execution Client

```
INFO [06-07|15:35:39.789] Loaded most recent local block      number=0 hash=3a40b6..7d8896 td=0 age=54y2mo2w
WARN [06-07|15:35:39.887] Failed to load snapshot                err="missing or corrupted snapshot"
INFO [06-07|15:35:39.982] Rebuilding state snapshot
INFO [06-07|15:35:40.007] Regenerated local transaction journal  transactions=0 accounts=0
INFO [06-07|15:35:40.047] Chain post-merge, sync via beacon client
INFO [06-07|15:35:40.031]
INFO [06-07|15:35:40.149]
INFO [06-07|15:35:40.149]
INFO [06-07|15:35:40.093]
WARN [06-07|15:35:40.250]
WARN [06-07|15:35:40.284]
INFO [06-07|15:35:40.289]
INFO [06-07|15:35:40.289]
INFO [06-07|15:35:40.471]
INFO [06-07|15:35:40.471]
INFO [06-07|15:35:40.742]
INFO [06-07|15:35:40.812]
INFO [06-07|15:35:40.812]
INFO [06-07|15:35:41.324]
INFO [06-07|15:35:41.324]
INFO [06-07|15:35:41.406]
INFO [06-07|15:35:41.503]
INFO [06-07|15:35:41.503]
WARN [06-07|15:35:42.095]
INFO [06-07|15:35:42.750]
INFO [06-07|15:35:42.750]
```

Windows Security Alert

Windows Defender Firewall has blocked some features of this app

Windows Defender Firewall has blocked some features of bpx-geth on all public and private networks.

Name: **bpx-geth**
Publisher: Unknown
Path: C:\program files\bpx execution client\bpx-geth.exe

Allow bpx-geth to communicate on these networks:

- Private networks, such as my home or work network
- Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)

[What are the risks of allowing an app through a firewall?](#)

Allow access Cancel

Type here to search

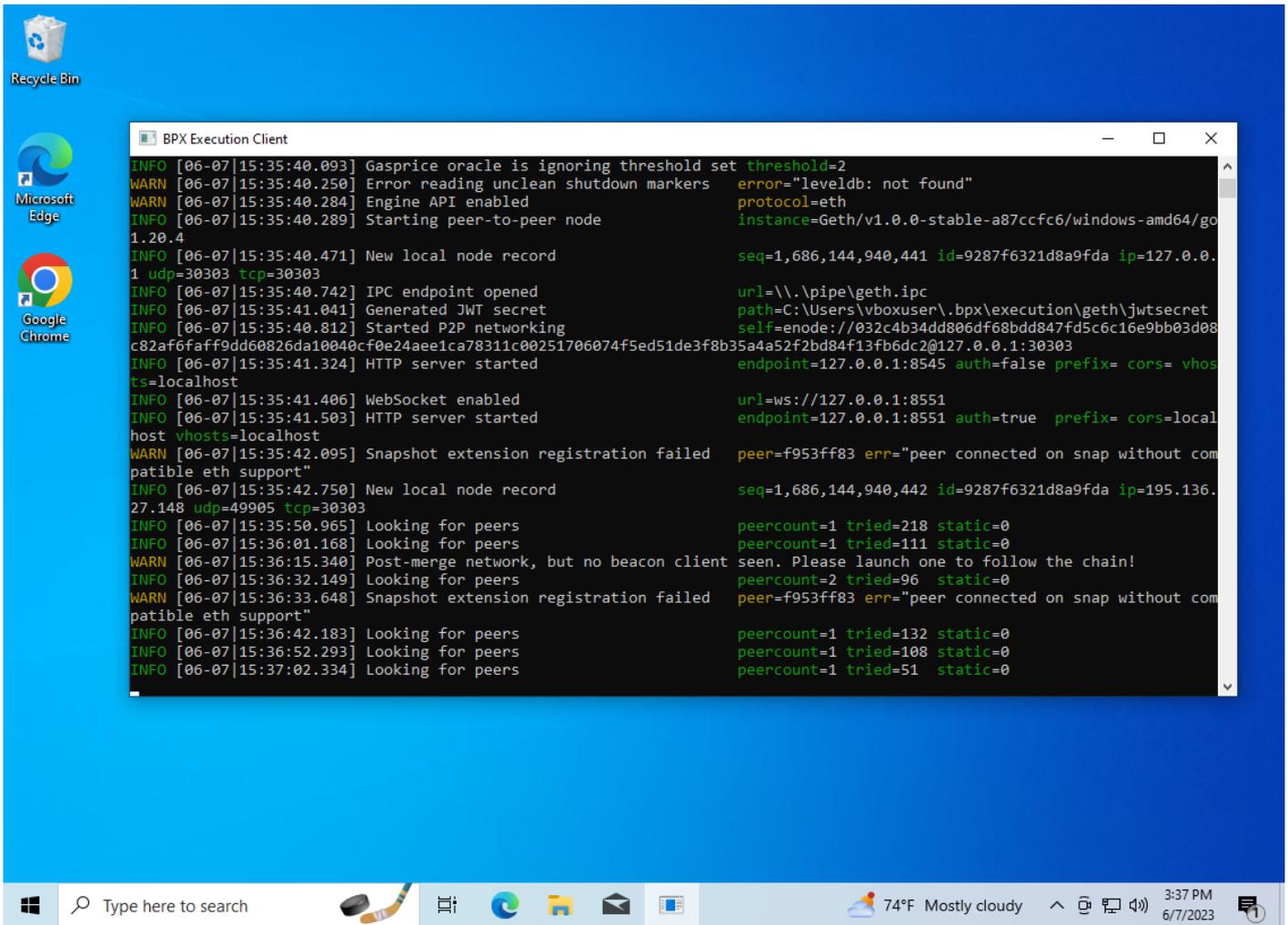


74°F



3:35 PM

6/7/2023



6. Now run the **Beacon Client** installer. Navigate through the Microsoft Defender pop-ups as before.

7. Accept the license agreement and proceed through the subsequent installation steps.



Recycle Bin



Microsoft Edge



Google Chrome

```

INFO [06-07|15:37:02.334] Looking for peers
INFO [06-07|15:37:12.392] Looking for peers
WARN [06-07|15:37:14.751] Snapshot extension registration failed
patible eth support"
WARN [06-07|15:37:21.862]
patible eth support"
INFO [06-07|15:37:32.684]
WARN [06-07|15:37:34.428]
patible eth support"
INFO [06-07|15:37:42.818]
WARN [06-07|15:37:43.009]
patible eth support"
INFO [06-07|15:37:53.252]
INFO [06-07|15:38:13.442]
INFO [06-07|15:38:23.589]
WARN [06-07|15:38:29.492]
patible eth support"
INFO [06-07|15:38:33.609]
INFO [06-07|15:38:43.810]
INFO [06-07|15:38:53.812]
INFO [06-07|15:39:04.274]
WARN [06-07|15:39:19.106]
patible eth support"
INFO [06-07|15:39:24.327]
INFO [06-07|15:39:34.566]
INFO [06-07|15:39:44.688]
WARN [06-07|15:39:45.280]
patible eth support"
INFO [06-07|15:39:54.729] Looking for peers

```

BPX Beacon Client Setup

Please review the license terms before installing BPX Beacon Client.

Press Page Down to see the rest of the agreement.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

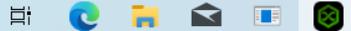
1. Definitions.

"license" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

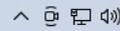
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install BPX Beacon Client.

BPX Beacon Client 3.0.1

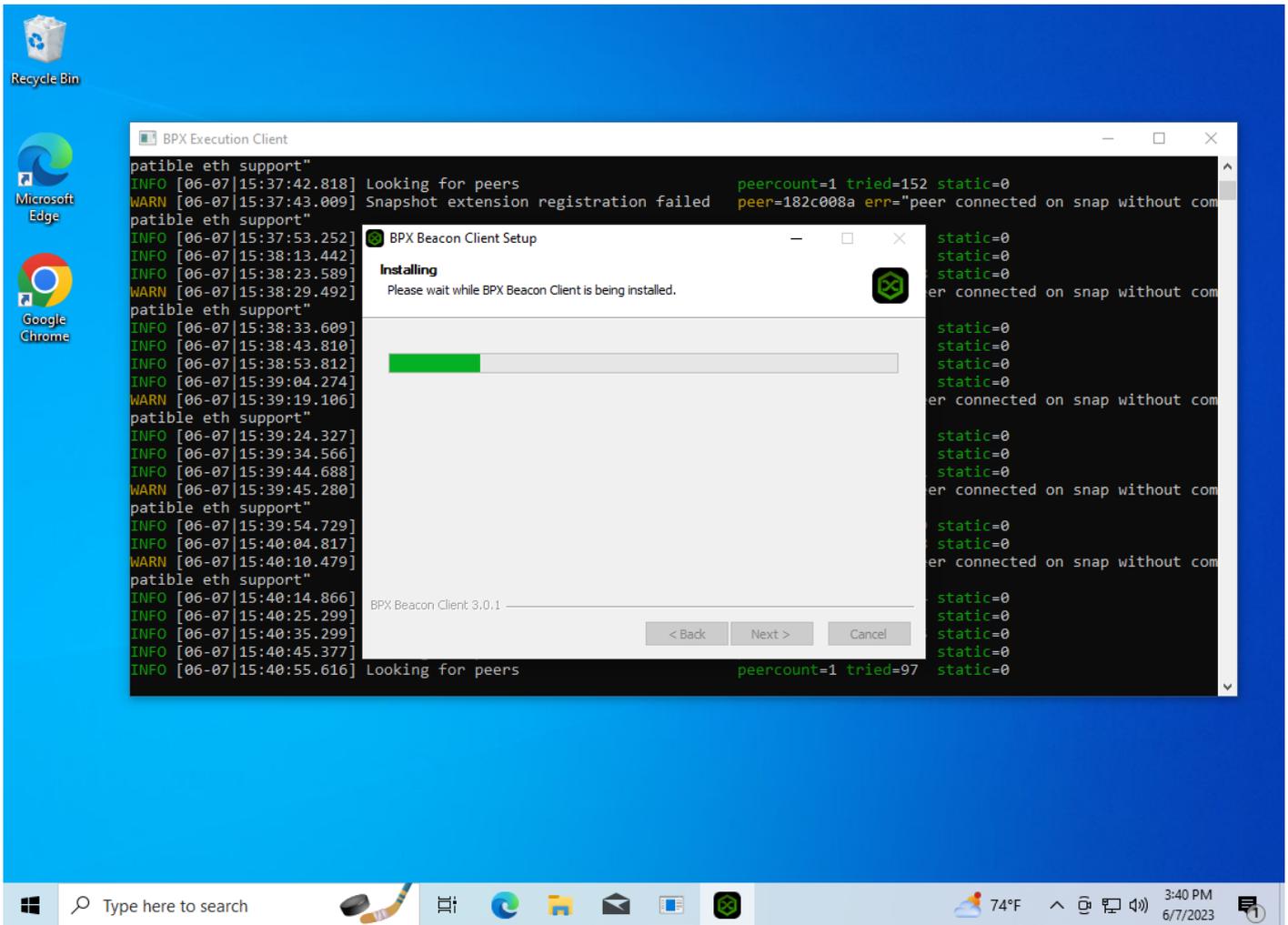
Type here to search



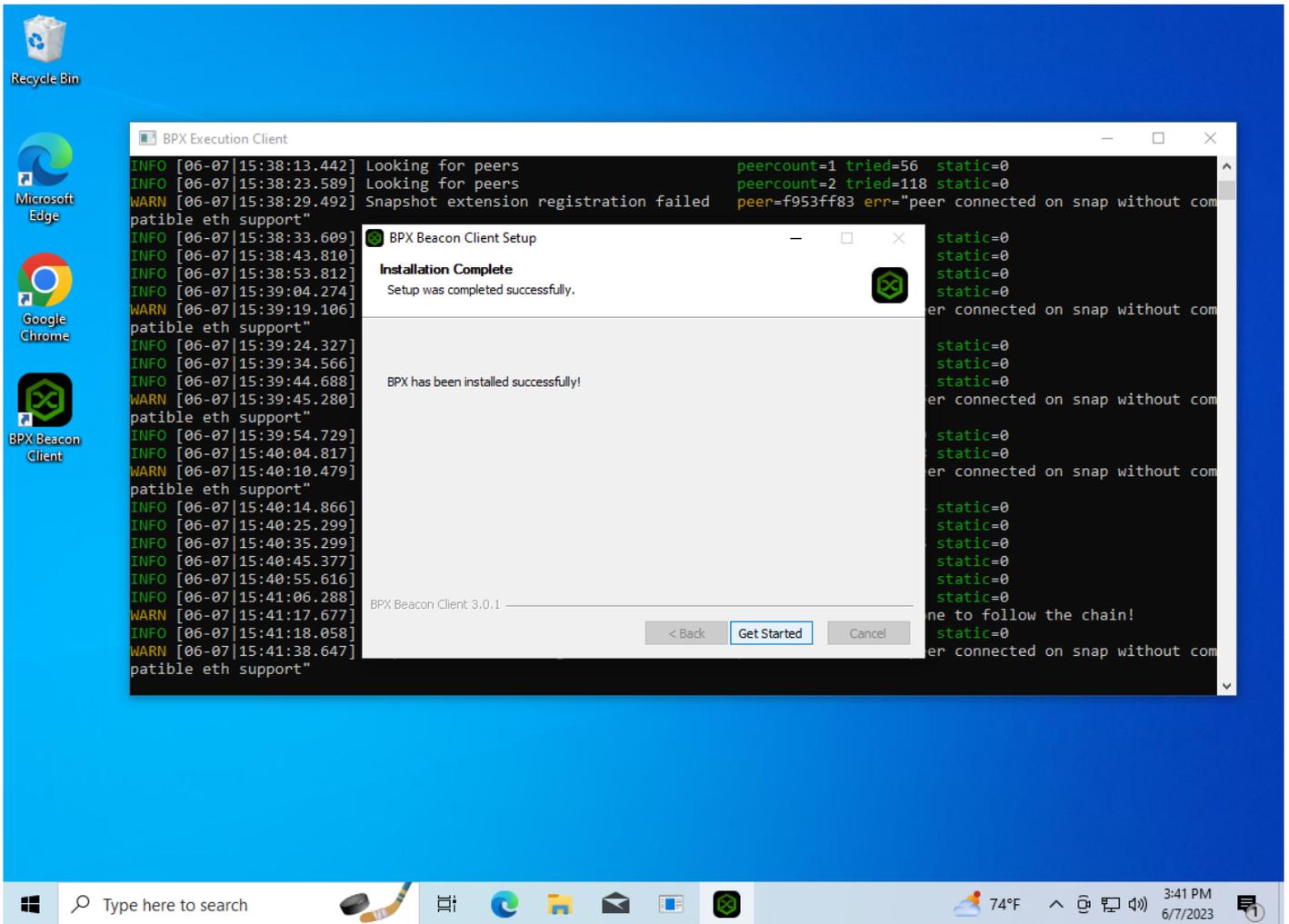
74°F



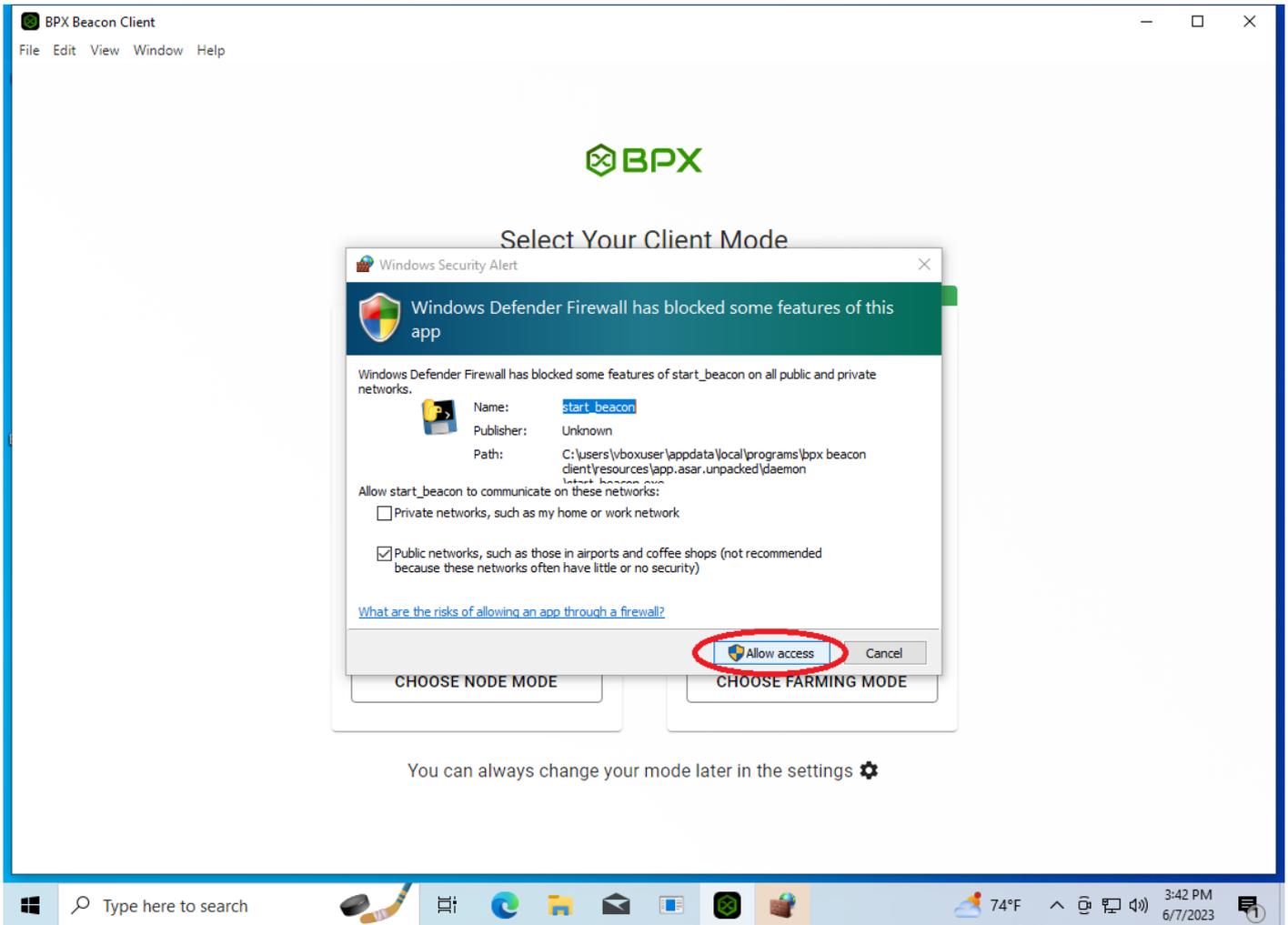
3:39 PM 6/7/2023



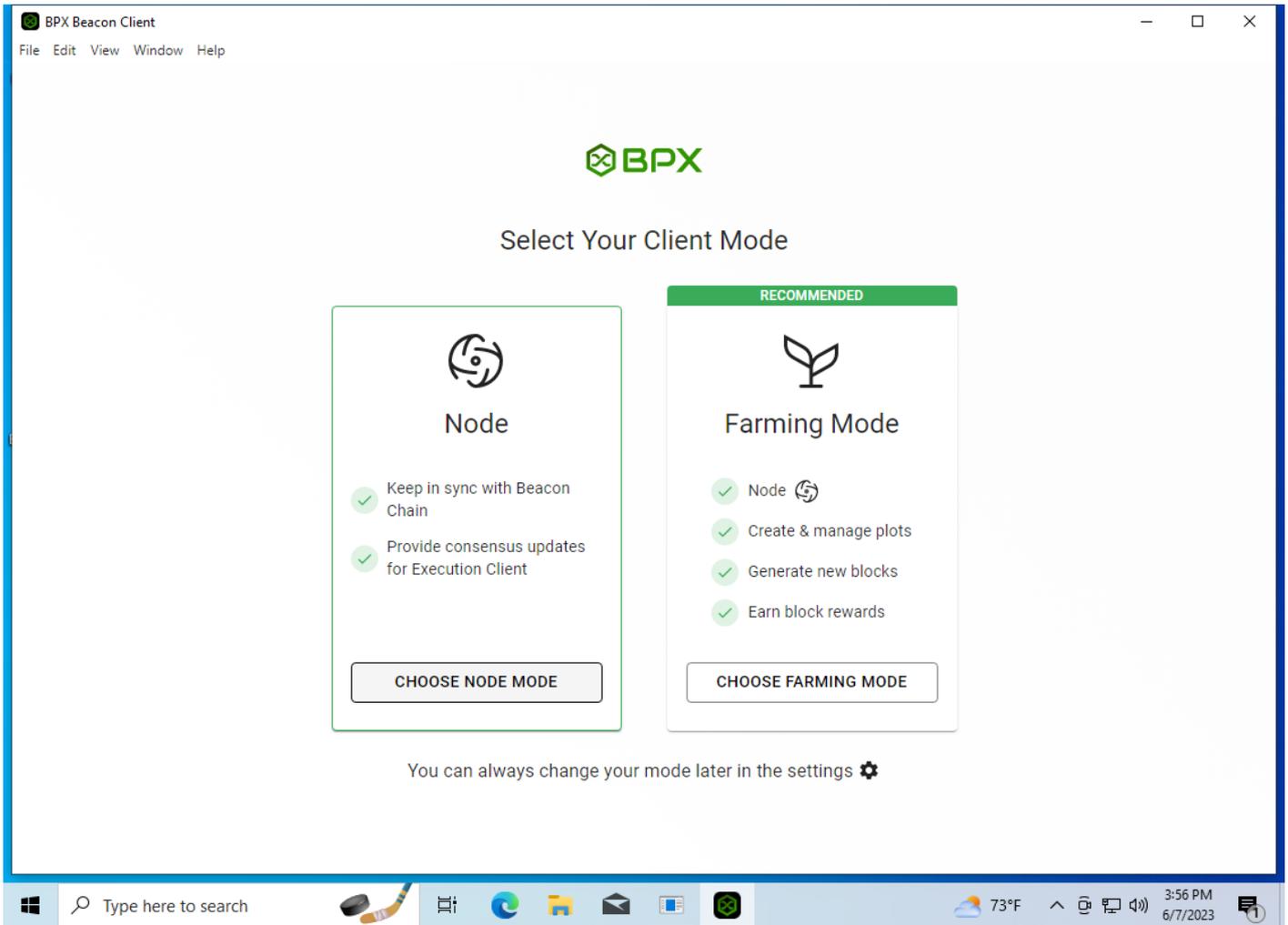
8. Once the installation is complete, click the **"Get Started"** button.



9. Allow to open the required port as before.



10. Beacon Client GUI will be launched. Select the **Node** mode.



11. At this point, both clients will begin synchronizing with the network. This process may take several hours or even days.



Beacon Client

Status ⓘ Syncing 1,408/74,234	Connection Status Connected	Network Name mainnet
Peak Height 1,408	Last Block Time ⓘ May 25, 2023 4:30 AM	Difficulty 1
VDF Sub Slot Iterations 134,217,728	Total Iterations ⓘ 1,493,247,730	Estimated Network Space ⓘ 6.153 PiB

Blocks

Search block by header hash 🔍

Header Hash	Height	Time Created	State
● 0x9aca58c32fd697ec36ba63664fa121b30ab897834609b1eb...	1,408		Finished
● 0xbb82883f0eb9600f64d8ea7fb6092668d7947debf73ddc06...	1,407		Finished
● 0x526f1b2342eacfe822a75266d0f1c7401532acbdcaee617b1...	1,406		Finished



BPX Beacon Client

File Edit View Window Help

Beacon Client

BPX Execution Client

```

INFO [06-07|15:56:34.166] Looking for peers
INFO [06-07|15:56:44.167] Looking for peers
INFO [06-07|15:56:44.228] Imported new potential chain segment
000 elapsed=0s mgasps=NaN age=1w6d11h dirty=407.33KiB
WARN [06-07|15:56:52.273] Snapshot extension registration failed
patible eth support"
INFO [06-07|15:56:56.800] Imported new potential chain segment
000 elapsed=0s mgasps=NaN age=1w6d11h dirty=417.32KiB
INFO [06-07|15:57:10.444] Imported new potential chain segment
000 elapsed=0s mgasps=NaN age=1w6d11h dirty=425.83KiB
INFO [06-07|15:57:23.788] Imported new potential chain segment
000 elapsed=0s mgasps=NaN age=1w6d11h dirty=436.69KiB
INFO [06-07|15:57:37.196] Imported new potential chain segment
000 elapsed=3.309ms mgasps=0.000 age=1w6d10h dirty=441.45KiB
WARN [06-07|15:57:52.921] Snapshot extension registration failed
patible eth support"
INFO [06-07|15:58:03.312] Imported new potential chain segment
000 elapsed=0s mgasps=NaN age=1w6d10h dirty=454.06KiB
INFO [06-07|15:58:15.575] Imported new potential chain segment
000 elapsed=0s mgasps=NaN age=1w6d10h dirty=465.10KiB
INFO [06-07|15:58:15.709] Looking for peers
INFO [06-07|15:58:27.705] Imported new potential chain segment
000 elapsed=0s mgasps=NaN age=1w6d9h dirty=474.41KiB
WARN [06-07|15:58:39.966] Snapshot extension registration failed
patible eth support"
INFO [06-07|15:58:50.885] Imported new potential chain segment
000 elapsed=0s mgasps=NaN age=1w6d9h dirty=483.65KiB
INFO [06-07|15:58:51.655] Imported new potential chain segment
260 elapsed=22.292ms mgasps=56.521 age=1w6d9h dirty=502.56KiB
peercount=2 tried=4 static=0
peercount=2 tried=94 static=0
number=73 hash=9a119c..8d45da blocks=1 txs=0 mgas=0.
peer=4c8abcd8 err="peer connected on snap without com
number=74 hash=6b5b6a..40743c blocks=1 txs=0 mgas=0.
number=75 hash=5ec9fc..950b5a blocks=1 txs=0 mgas=0.
number=76 hash=e3f1f7..bee35b blocks=1 txs=0 mgas=0.
number=77 hash=09a057..b496b1 blocks=1 txs=0 mgas=0.
peer=f953ff83 err="peer connected on snap without com
number=78 hash=074feb..c5f0dc blocks=1 txs=0 mgas=0.
number=79 hash=31ca22..5c9e1e blocks=1 txs=0 mgas=0.
peercount=2 tried=115 static=0
number=80 hash=96eaad..430e31 blocks=1 txs=0 mgas=0.
peer=f953ff83 err="peer connected on snap without com
number=81 hash=c01c00..b0ec11 blocks=1 txs=0 mgas=0.
number=82 hash=1a6a77..38a39a blocks=1 txs=60 mgas=1.

```

0xb5069d6d79a71412a8f21668f47567b8ea2417fdf6b...	1,600	Finished
0x15eca696df9e74b48a8136f95ac5da772152f5cfac8...	1,599	Finished
0x001e8290f6cd40dbc8c3216838b4da9c62a6614b1f7...	1,598	Finished

Settings

Type here to search

73°F 3:58 PM 6/7/2023

12. Once synchronization is complete, your full node will be ready to operate.



Beacon Client

Status
 Synced

Connection Status
 Connected

Network Name
 mainnet

Peak Height
 76,165

Last Block Time
 June 8, 2023 1:46 AM

Difficulty
 18

VDF Sub Slot Iterations
 27,262,976

Total Iterations
 57,430,769,622

Estimated Network Space
 132.607 PiB

Blocks

Search block by header hash

Header Hash	Height	Time Created	State
0x3df6c06ab50787d794328465ba81687a7ea4eeed82...	76,165	June 8, 2023 1:46 AM	Finished
0xee4430b06c46f6b585a5463ebb924fce0586091537fa...	76,164		Finished
0xee1f0b2f15d936c0c30cb3daf4dc645014d336c26ded...	76,163		Finished



Settings

Activate Windows
Go to Settings to activate Windows.

Never stop the **Execution Client** by closing the console window. Instead, use the **Control + C** shortcut and wait for the client to save all data to disk and shut down gracefully.

The screenshot shows the BPX Beacon Client application interface. At the top, there is a menu bar with 'File', 'Edit', 'View', 'Window', and 'Help'. Below the menu bar is the title bar 'Beacon Client'. The main area contains a console window titled 'BPX Execution Client' which displays a series of log messages. A large green 'Control + C' text is overlaid on the bottom of the console window. A red 'X' mark is placed over the close button of the console window. At the bottom of the application, there is a list of peers with their IDs and scores. The Windows taskbar is visible at the very bottom, showing the search bar, taskbar icons, and system tray with the date and time '10:34 AM 6/8/2023'.

```
BPX Beacon Client
File Edit View Window Help

Beacon Client
BPX Execution Client
INFO [06-08|10:32:23.044] Imported new potential chain segment number=22428 hash=2725b0..c3f7ba blocks=1 txs=0 mgasps=NaN age=1m16s dirty=453.52KiB
INFO [06-08|10:32:23.213] Chain head was updated number=22428 hash=2725b0..c3f7ba root=bf9826..cc6b4b
INFO [06-08|10:32:23.396] Imported new potential chain segment number=22428 hash=0ccab1..5fca67 blocks=1 txs=0 mgasps=NaN age=1m16s dirty=453.52KiB
INFO [06-08|10:32:39.149] Imported new potential chain segment number=22429 hash=c5065a..c6aacb blocks=1 txs=0 mgasps=NaN age=1m16s dirty=454.07KiB
INFO [06-08|10:32:40.512] Chain head was updated number=22429 hash=c5065a..c6aacb root=fa8a10..c797f0
INFO [06-08|10:32:49.056] Imported new potential chain segment number=22430 hash=9bc6fd..46481a blocks=1 txs=0 mgasps=0.000 elapsed=5.076ms dirty=455.24KiB
INFO [06-08|10:33:51.774] Imported new potential chain segment number=22430 hash=ad350b..95c455 blocks=1 txs=0 mgasps=NaN age=1m12s dirty=455.24KiB
WARN [06-08|10:33:59.272] Ignoring already known beacon payload number=22430 hash=9bc6fd..46481a age=1m22s
INFO [06-08|10:34:00.417] Chain head was updated number=22430 hash=9bc6fd..46481a root=6ed0dd..714010
INFO [06-08|10:34:03.696] Looking for peers peercount=0 tried=15 static=0
INFO [06-08|10:34:03.838] Imported new potential chain segment number=22431 hash=84f95e..893285 blocks=1 txs=0 mgasps=NaN age=1m12s dirty=454.48KiB
INFO [06-08|10:34:04.329] Chain head was updated number=22431 hash=84f95e..893285 root=3ad8bb..0f4e3e
WARN [06-08|10:34:05.535] Snapshot extension registration failed peer=aa8fe93c err="peer connected on snap without compatible eth support"
INFO [06-08|10:34:11.980] Imported new potential chain segment number=22431 hash=84f95e..893285 blocks=1 txs=0 mgasps=NaN age=1m12s dirty=454.48KiB
INFO [06-08|10:34:13.765] Looking for peers peercount=0 tried=15 static=0
WARN [06-08|10:34:14.921] Snapshot extension registration failed peer=aa8fe93c err="peer connected on snap without compatible eth support"

Control + C

0x0cf138a6014b7e81ddb211e09da3d63ae37f499c69... 77,806 Finished
0x0108567661c362beaf368814c3a1b741bb42d467bd... 77,805 Finished
```

Installing and running BPX full node on Debian / Ubuntu

1. Log in as root. Use **wget** to download the DEB packages for the latest releases of the **Execution Client** and **Beacon Client**. Replace **X.X.X** with the latest versions tags.

```
wget "https://github.com/bpx-chain/bpx-execution-client/releases/download/X.X.X/bpx-execution-client_X.X.X+stable_amd64.deb"
wget "https://github.com/bpx-chain/bpx-beacon-client/releases/download/X.X.X/bpx-beacon-client-cli_X.X.X-1_amd64.deb"
```

```
root@debian:~# wget "https://github.com/bpx-chain/bpx-beacon-client/releases/download/1.0.0/bpx-beacon-client-cli_1.0.0-1_amd64.deb"
--2024-11-04 17:39:41-- https://github.com/bpx-chain/bpx-beacon-client/releases/download/1.0.0/bpx-beacon-client-cli_1.0.0-1_amd64.deb
Resolving github.com (github.com)... 140.82.121.4
Connecting to github.com (github.com)|140.82.121.4|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://objects.githubusercontent.com/github-production-release-asset-2e65be/618348613/55273968-f6c2-437f-b55a-1371f2c39993?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20241104%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20241104T173941Z&X-Amz-Expires=300&X-Amz-Signature=f10745db570ab391ee09256f523153676d3c73eda870a4fecaaacce5b34679bc&X-Amz-SignedHeaders=host&response-content-disposition=attachment%3B%20filename%3Dbpx-beacon-client-cli_1.0.0-1_amd64.deb&response-content-type=application%2Foctet-stream [following]
--2024-11-04 17:39:41-- https://objects.githubusercontent.com/github-production-release-asset-2e65be/618348613/55273968-f6c2-437f-b55a-1371f2c39993?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20241104%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20241104T173941Z&X-Amz-Expires=300&X-Amz-Signature=f10745db570ab391ee09256f523153676d3c73eda870a4fecaaacce5b34679bc&X-Amz-SignedHeaders=host&response-content-disposition=attachment%3B%20filename%3Dbpx-beacon-client-cli_1.0.0-1_amd64.deb&response-content-type=application%2Foctet-stream
Resolving objects.githubusercontent.com (objects.githubusercontent.com)... 185.199.110.133, 185.199.111.133, 185.199.108.133, ...
Connecting to objects.githubusercontent.com (objects.githubusercontent.com)|185.199.110.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 70692856 (67M) [application/octet-stream]
Saving to: 'bpx-beacon-client-cli_1.0.0-1_amd64.deb'

bpx-beacon-client-cli_1.0. 100%[=====>] 67.42M 1.55MB/s in 67s

2024-11-04 17:40:49 (1024 KB/s) - 'bpx-beacon-client-cli_1.0.0-1_amd64.deb' saved [70692856/70692856]
root@debian:~# █
```

2. Install both packages. Replace **X.X.X** with the downloaded versions tags.

```
dpkg -i bpx-execution-client_X.X.X+stable_amd64.deb bpx-beacon-client-cli_X.X.X-1_amd64.deb
```

```
root@debian:~# dpkg -i bpx-execution-client_1.0.0+stable_amd64.deb bpx-beacon-client-cli_1.0.0-1_amd64.deb
Selecting previously unselected package bpx-execution-client.
(Reading database ... 19150 files and directories currently installed.)
Preparing to unpack bpx-execution-client_1.0.0+stable_amd64.deb ...
Unpacking bpx-execution-client (1.0.0+stable) ...
Selecting previously unselected package bpx-beacon-client-cli.
Preparing to unpack bpx-beacon-client-cli_1.0.0-1_amd64.deb ...
Unpacking bpx-beacon-client-cli (1.0.0) ...
Setting up bpx-execution-client (1.0.0+stable) ...
Setting up bpx-beacon-client-cli (1.0.0) ...
root@debian:~#
```

3. Create a new user account for BPX Chain services.

```
adduser bpxchain
```

Set a password for the new account. You can leave the additional information fields empty.

```
root@debian:~# adduser bpxchain
Adding user `bpxchain' ...
Adding new group `bpxchain' (1000) ...
Adding new user `bpxchain' (1000) with group `bpxchain (1000)' ...
Creating home directory `/home/bpxchain' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for bpxchain
Enter the new value, or press ENTER for the default
  Full Name []:
  Room Number []:
  Work Phone []:
  Home Phone []:
  Other []:
Is the information correct? [Y/n] Y
Adding new user `bpxchain' to supplemental / extra groups `users' ...
Adding user `bpxchain' to group `users' ...
root@debian:~#
```

4. Switch to the newly created account.

```
su - bpxchain
```

5. Initialize the Beacon Client configuration.

```
bpx init
```

```
root@debian:~# su - bpxchain
bpxchain@debian:~$ bpx init
BPX directory /home/bpxchain/.bpxchain/beacon
Can't find private CA, creating a new one in /home/bpxchain/.bpxchain/beacon to generate TLS certificates
No keys are present in the keychain. Generate them with 'bpx keys generate'

To see your keys, run 'bpx keys show --show-mnemonic-seed'
bpxchain@debian:~$
```

6. Press **Control + D** to log out and return to the root console.

7. Create a configuration file for the BPX Execution Client **systemd** service using any text editor, for example **nano**:

```
nano /etc/systemd/system/bpx-execution.service
```

Insert the following file content:

```
[Unit]
Description=BPX Execution Client

[Service]
Type=simple
User=bpxchain
ExecStart=bpx-geth --http
Restart=always
```

```
[Install]
```

```
WantedBy=multi-user.target
```

Save the file by pressing **Control + O** and close the editor with **Control + X**.

8. Follow the same procedure to create a configuration file for the Beacon Client service:

```
nano /etc/systemd/system/bpx-beacon.service
```

Insert the following file content:

```
[Unit]
```

```
Description=BPX Beacon Client
```

```
[Service]
```

```
Type=forking
```

```
User=bpxchain
```

```
ExecStart=bpx start beacon
```

```
ExecStop=bpx stop -d all
```

```
Restart=always
```

```
[Install]
```

```
WantedBy=multi-user.target
```

9. Reload the system services configuration.

```
systemctl daemon-reload
```

10. Enable automatic startup of the BPX Chain services.

```
systemctl enable bpx-execution
```

```
systemctl enable bpx-beacon
```

11. Start both services.

```
systemctl start bpx-execution
```

```
systemctl start bpx-beacon
```

```
root@debian:~# systemctl daemon-reload
root@debian:~# systemctl enable bpx-execution
Created symlink /etc/systemd/system/multi-user.target.wants/bpx-execution.service -> /etc/systemd/system/bpx-execution.service.
root@debian:~# systemctl enable bpx-beacon
Created symlink /etc/systemd/system/multi-user.target.wants/bpx-beacon.service -> /etc/systemd/system/bpx-beacon.service.
root@debian:~# systemctl start bpx-execution
root@debian:~# systemctl start bpx-beacon
root@debian:~#
```

12. Your full node has just started and will begin the initial synchronization of the blockchain. This process may take several hours or even days. Use the following command to watch the sync status.

```
su - bpxchain
watch -n 10 bpx show -s
```

```
Every 10.0s: bpx show -s                                debian: Mon Nov  4 17:51:27 2024
Network: mainnet      Port: 6201      RPC Port: 8201
Node ID: f0757f051e8c6d48252d775e1d6ce17ae18a136c5ebefd6da2b86a0e7a9a6a51
Genesis Challenge: 511d20a74f1453a9dcf39108a854417a31ff56aa333fd64d888b584994d08dd4

Beacon Client Status: Syncing 111/40318 (40207 behind).
Execution Client Status: Syncing

Peak: Height: 111
      Hash: 6f94224352cfe10ee085dbbb89d8319ba00c3a2c492889f919f44067cc558f05
      Time: Thu Oct 31 2024 13:33:10 UTC

Estimated network space: 961.153 TiB
Current difficulty: 30
Current VDF sub_slot_iters: 1048576

Height: | Hash:
111 | 6f94224352cfe10ee085dbbb89d8319ba00c3a2c492889f919f44067cc558f05
110 | 5edf8a9e4aafe1558434ec7fcc1114cf4f2fe97243f8555132b272c3e222af0
109 | ebe4b959e64519feb9c569eb38fc0d07e01abc1f060d5d83a8bfc4a46b52c33
108 | d124e53c65db5a051e9c3ccfb91d0c638a4c84afaldab010485958dcfc0cb8e
107 | 752a4cb787b4141098790e49422b235f233e5dfca9042b567a4be7d04afe3695
106 | b4ffaba040e048ccb23430d313021c093f5ed2fafb218d6e2124fea01ce3fa4b
105 | 047c26eb19fa66973a178246c07dffeb837c8023d01f3acfa8e35dea156b3c94
104 | 0dbb254722bc9d4818df81a63329dc2060d1efe2b85d638ddfb2581d6d13475d
103 | fde0060931f5bdbc47d4daaf92633991e60b33a7382f349b3f7acff4049aae45
102 | bf4e65e1fb2e095565e65504512321fab3fad3fedda3ab016117f0142c85a7a1
```

