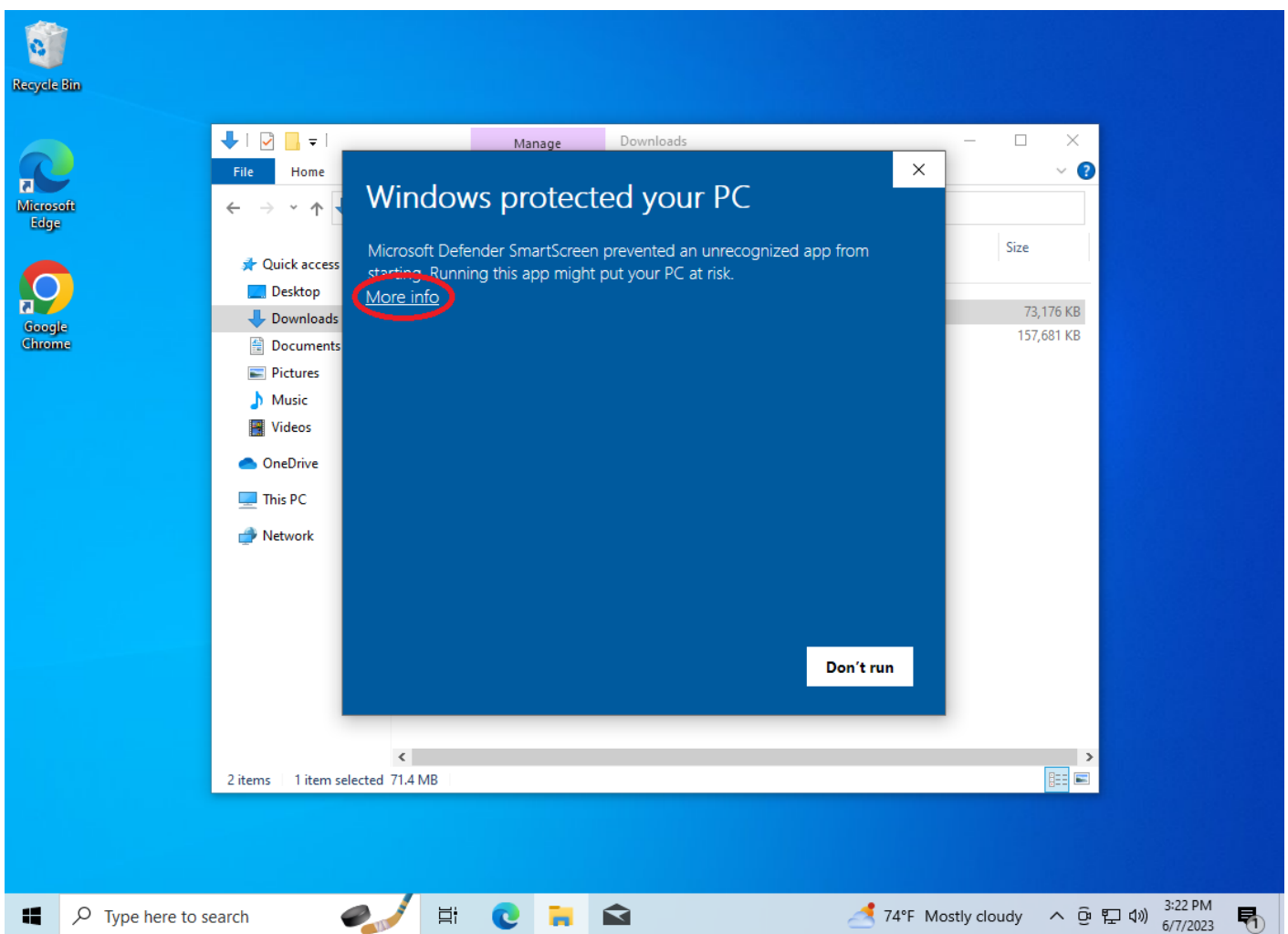


Installing and running BPX full node on Windows

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**".





FileHome

Quick access

Desktop

Downloads

Documents

Pictures

Music

Videos

OneDrive

This PC

Network

ManageDownloads

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-a87ccfc6.exe

Publisher: Unknown publisher

Run anywayDon't run

2 items1 item selected71.4 MB



Type here to search

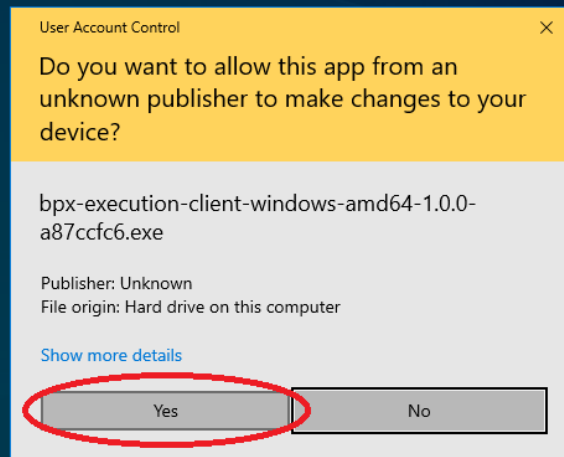


74°F Mostly cloudy



3:22 PM
6/7/2023





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



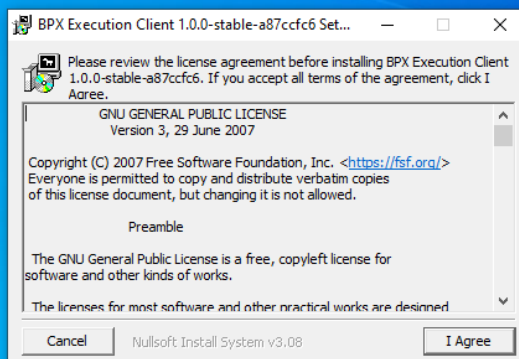
Recycle Bin



Microsoft
Edge



Google
Chrome



Type here to search

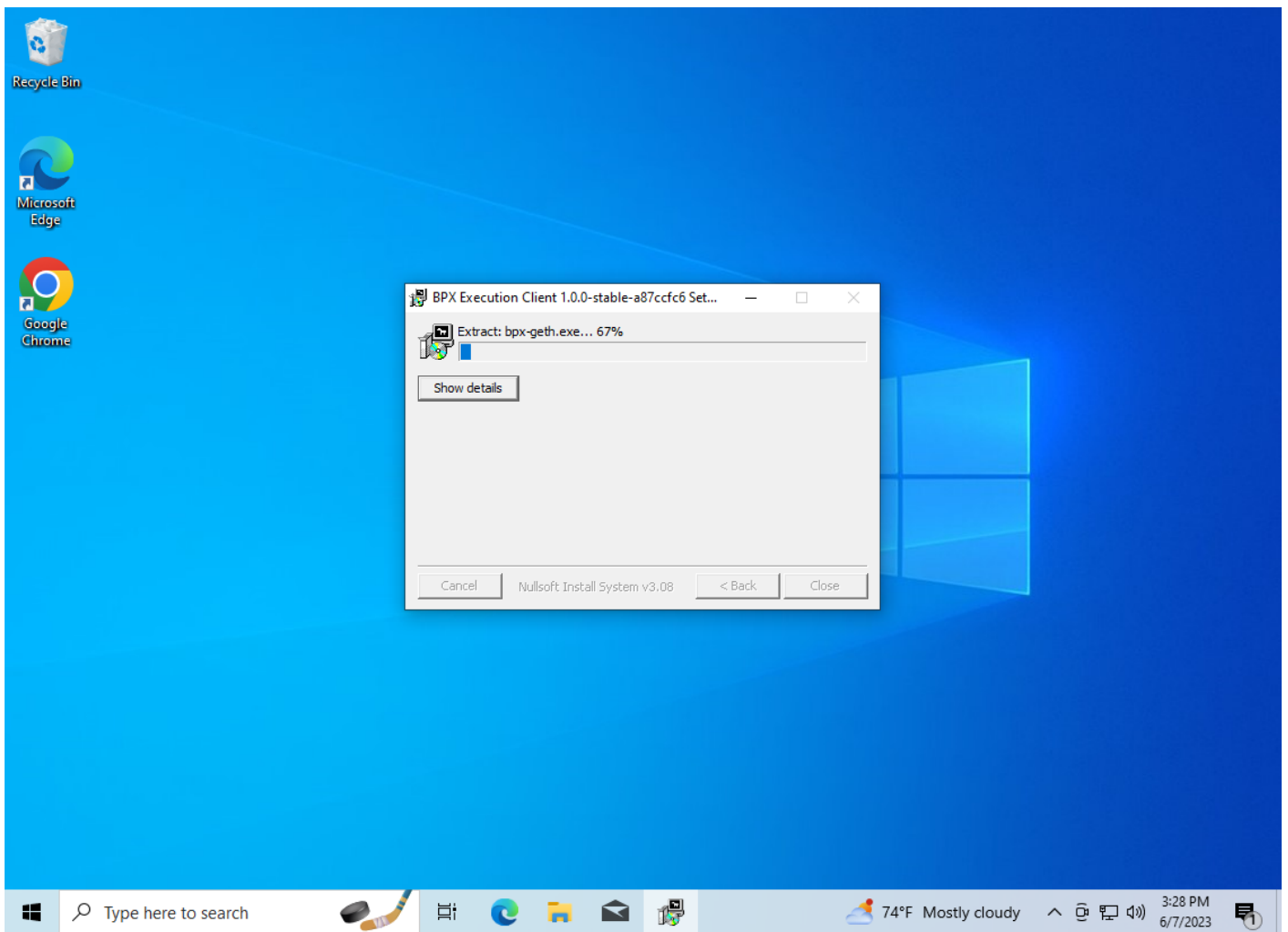


74°F Mostly cloudy

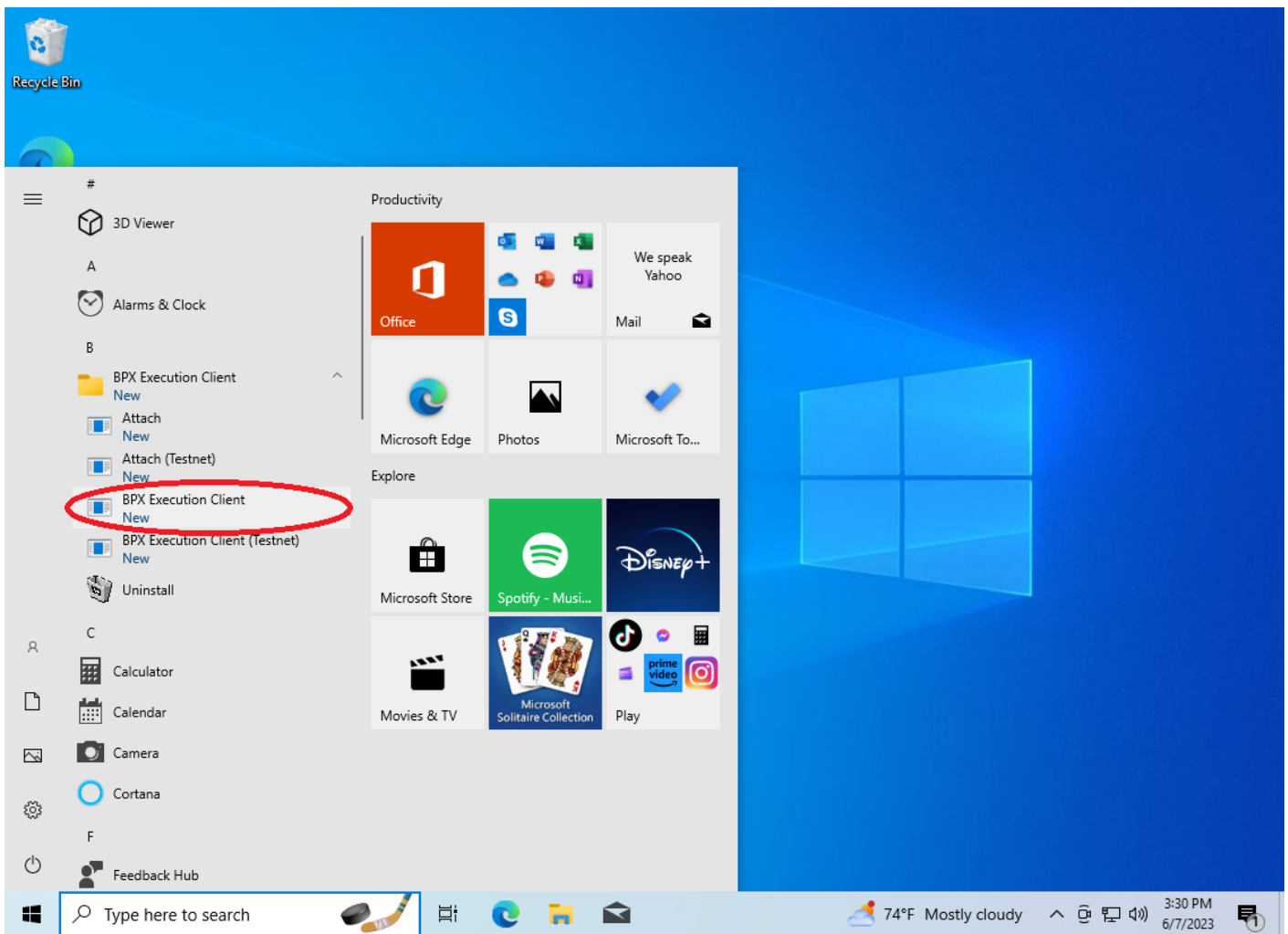


3:27 PM
6/7/2023





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

WARN [06-07|15:35:39.887] Failed to load snapshot

INFO [06-07|15:35:39.982] Rebuilding state snapshot

INFO [06-07|15:35:40.007] Regenerated local transaction journal

INFO [06-07|15:35:40.047] Chain post-merge, sync via beacon client

INFO [06-07|15:35:40.031] dangling=0 elapsed=24.37

INFO [06-07|15:35:40.149] 42.091ms

INFO [06-07|15:35:40.093] 1 udp=30303 tcp=30303

INFO [06-07|15:35:40.742] INFO [06-07|15:35:41.041] c82af6faff9dd60826da1004

INFO [06-07|15:35:41.324] ts=localhost

INFO [06-07|15:35:41.406] host vhosts=localhost

INFO [06-07|15:35:41.503] WARN [06-07|15:35:42.095] compatible eth support"

INFO [06-07|15:35:42.750] 27.148 udp=49905 tcp=303

number=0 hash=3a40b6..7d8896 td=0 age=54y2mo2w

err="missing or corrupted snapshot"

transactions=0 accounts=0

accounts=0 slots=0 storage=0.008

age=0.008 dangling=0 elapsed=1

nd"

table-a87ccfc6/windows-amd64/go

d=9287f6321d8a9fda ip=127.0.0.

.bpx\execution\geth\jwtsecret

806df68bdd847fd5c6c16e9bb03d08

27.0.0.1:30303

5 auth=false prefix= cors= vhos

auth=true prefix= cors=local

connected on snap without com

d=9287f6321d8a9fda ip=195.136.

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?](#)

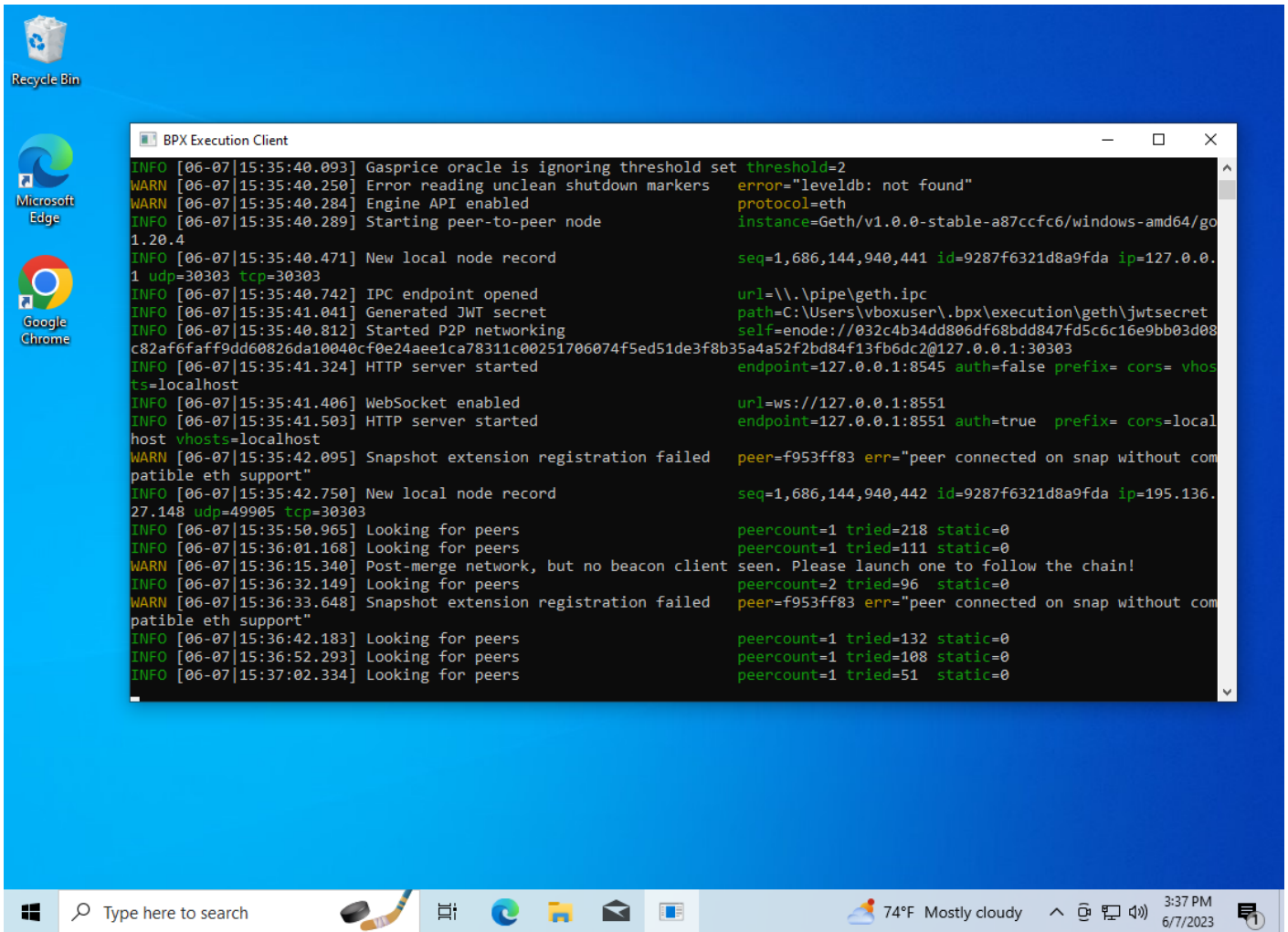
Allow access

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

BPX Execution Client

```
INFO [06-07|15:37:02.334] Looking for peers peercount=1 tried=51 static=0
INFO [06-07|15:37:12.392] Looking for peers peercount=1 tried=97 static=0
WARN [06-07|15:37:14.751] Snapshot extension registration failed peer=081950b6 err="peer connected on snap without com
patible eth support"
WARN [06-07|15:37:21.862] patible eth support" static=0
INFO [06-07|15:37:32.684] static=0
WARN [06-07|15:37:34.428] static=0
patible eth support" static=0
INFO [06-07|15:37:42.818] static=0
WARN [06-07|15:37:43.009] static=0
patible eth support" static=0
INFO [06-07|15:37:53.252] static=0
INFO [06-07|15:38:13.442] static=0
INFO [06-07|15:38:23.589] static=0
WARN [06-07|15:38:29.492] static=0
patible eth support" static=0
INFO [06-07|15:38:33.609] static=0
INFO [06-07|15:38:43.810] static=0
INFO [06-07|15:38:53.812] static=0
INFO [06-07|15:39:04.274] static=0
WARN [06-07|15:39:19.106] static=0
patible eth support" static=0
INFO [06-07|15:39:24.327] static=0
INFO [06-07|15:39:34.566] static=0
INFO [06-07|15:39:44.688] static=0
WARN [06-07|15:39:45.280] static=0
patible eth support" static=0
INFO [06-07|15:39:54.729] Looking for peers peercount=1 tried=109 static=0
```

BPX Beacon Client Setup

License Agreement

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

I Agree

Cancel



Type here to search

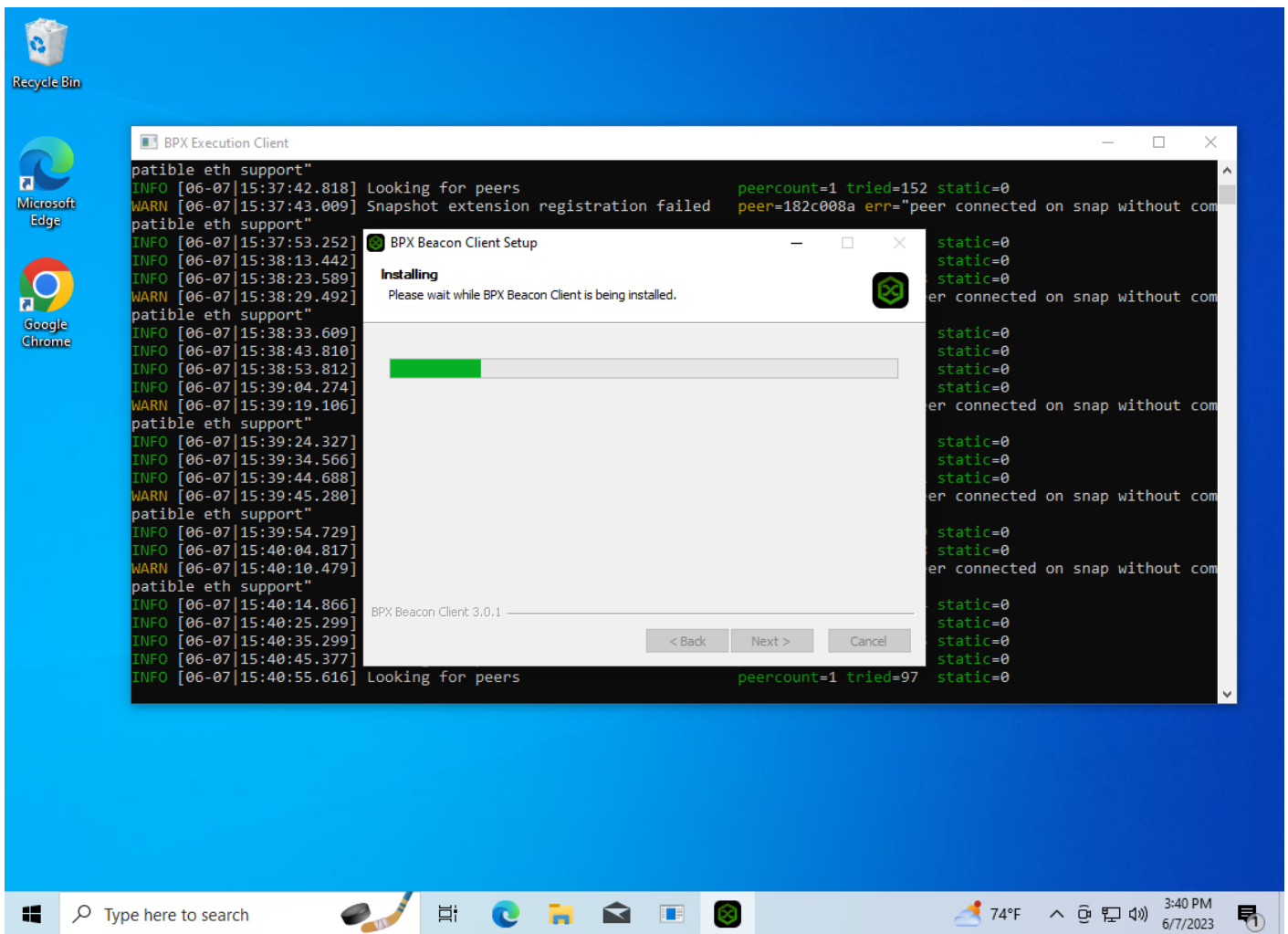


74°F

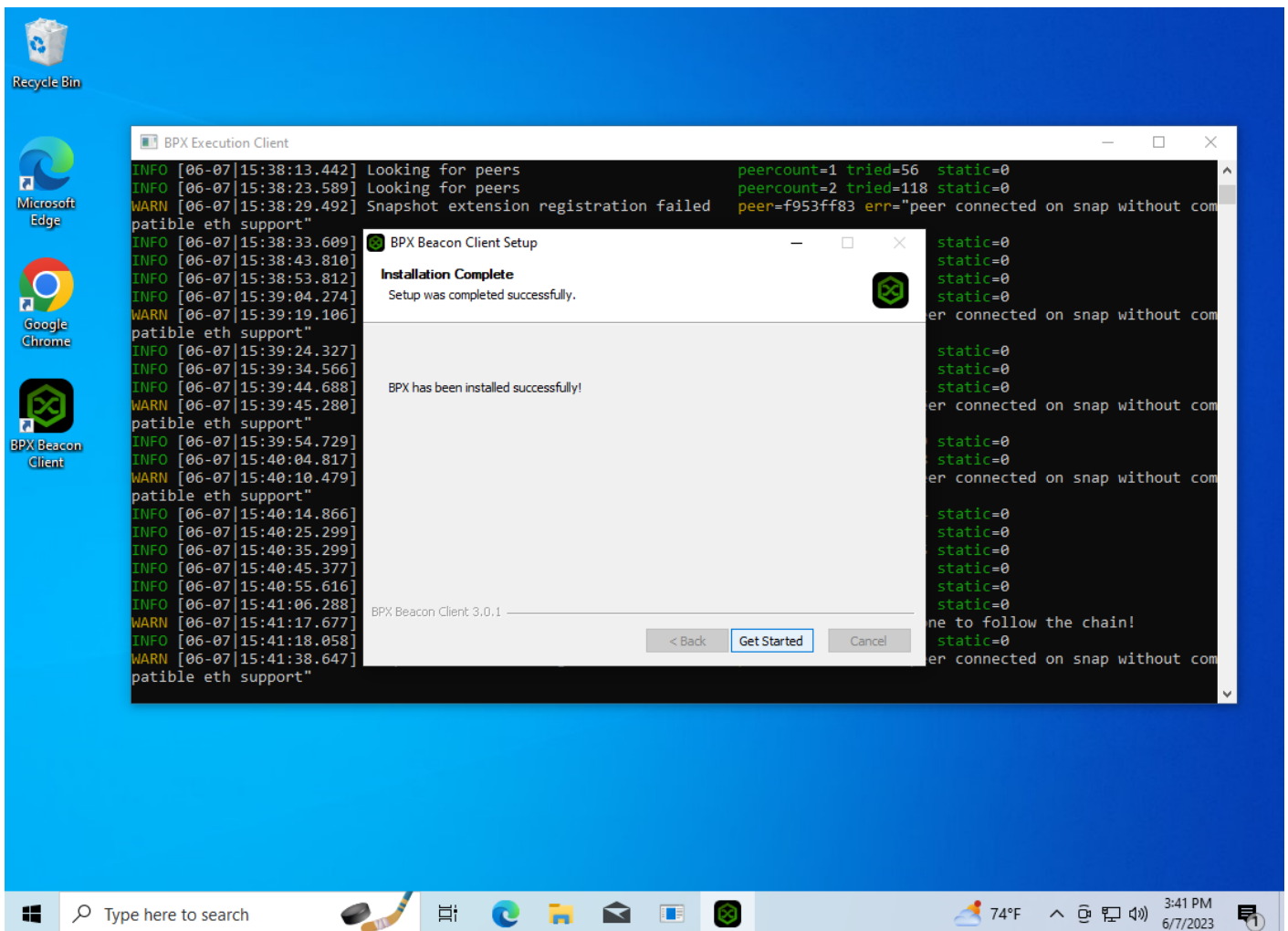


3:39 PM
6/7/2023

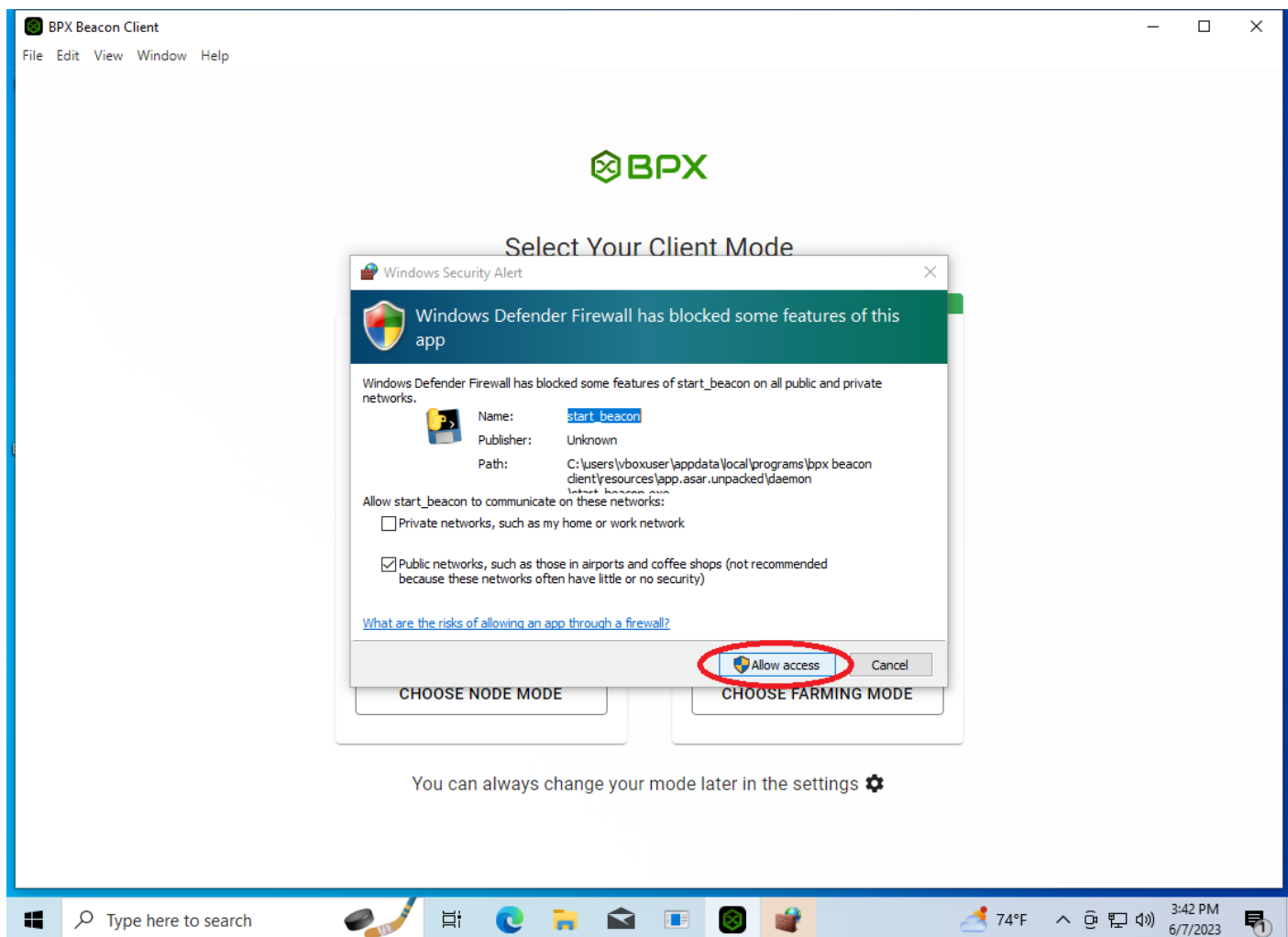




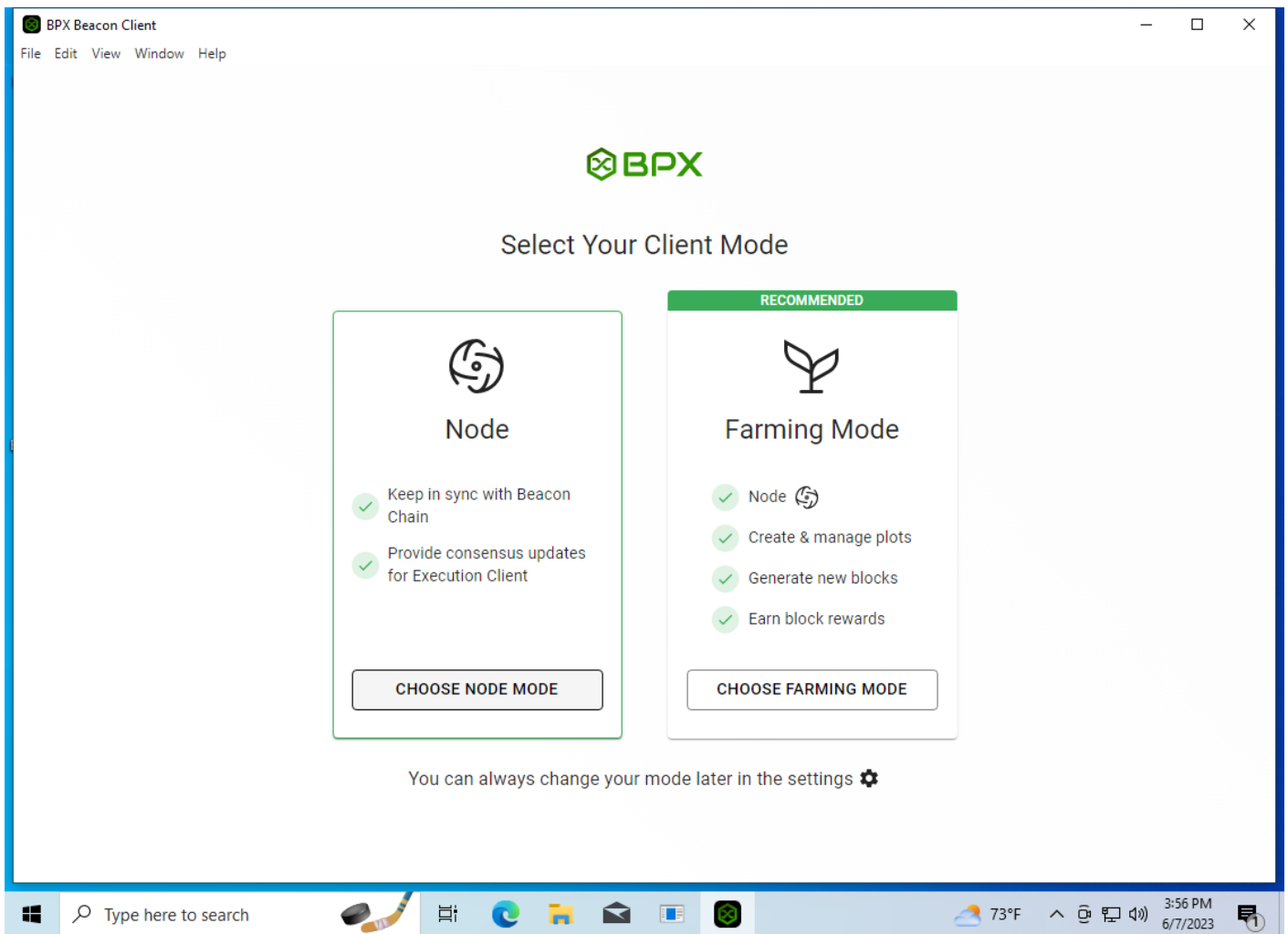
8. Once the installation is complete, click the **"Get Started"** button.



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.

BPX Beacon Client

File Edit View Window Help

Beacon

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

Settings

Type here to search

73°F

3:57 PM
6/7/2023

BPX Beacon Client

File Edit View Window Help

Beacon

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
0x15eca696df9e74b48a8136f95ac5da772152f5cfacf8...	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.

BPX Beacon Client

File Edit View Window Help

Beacon

Settings

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

Activate Windows

Go to Settings to activate Windows.

Type here to search

55°F 1:46 AM 6/8/2023

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.

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 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 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 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

Activate Windows
Go to Settings to activate Windows

Settings

Type here to search

55°F Mostly cloudy 10:34 AM 6/8/2023

Revision #10

Created 7 June 2023 11:15:51 by Admin

Updated 4 November 2024 12:41:29 by Admin