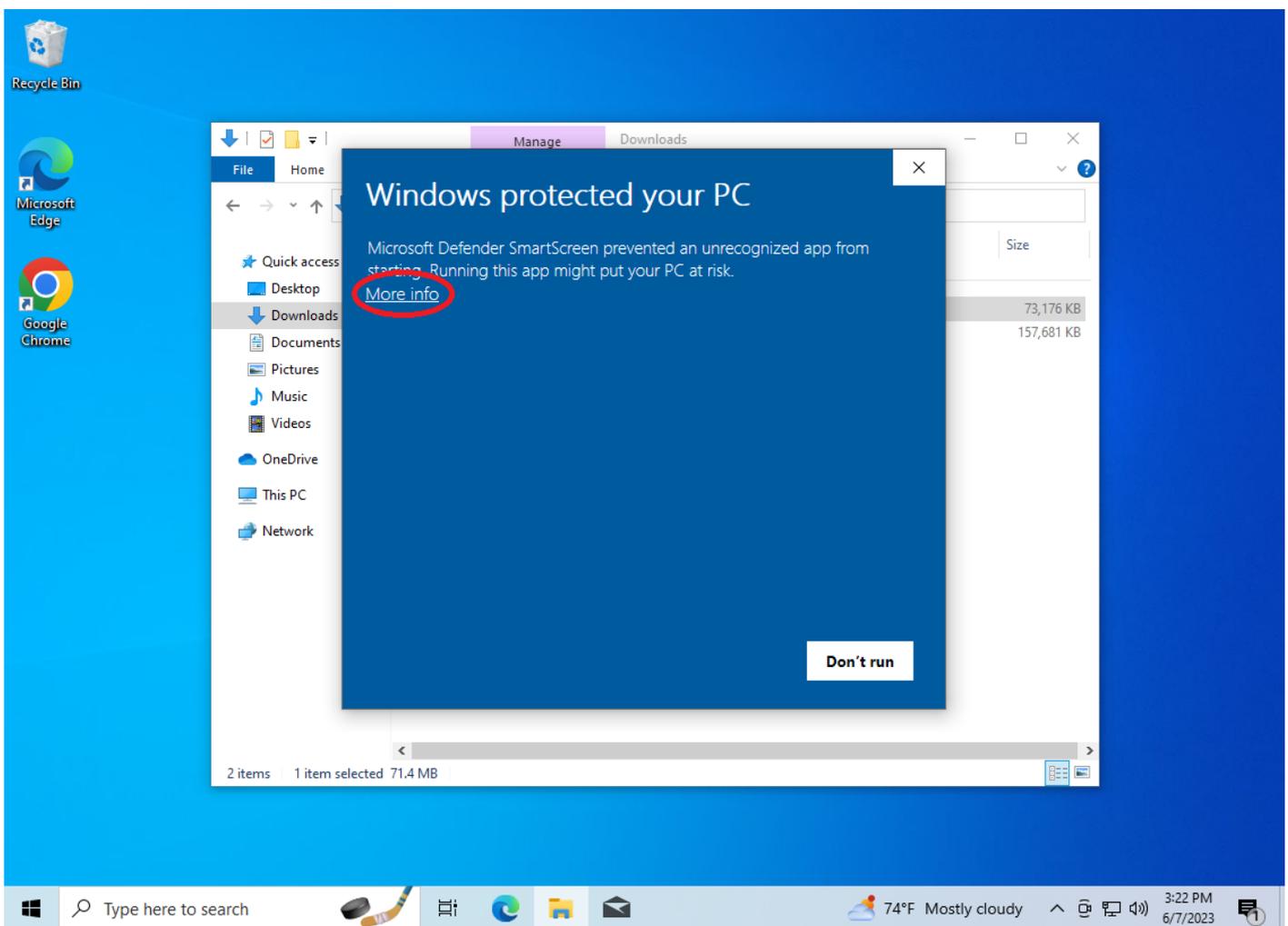


Installing and running BPX full node on Windows

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**".





Recycle Bin



Microsoft Edge



Google Chrome

Windows protected your PC

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

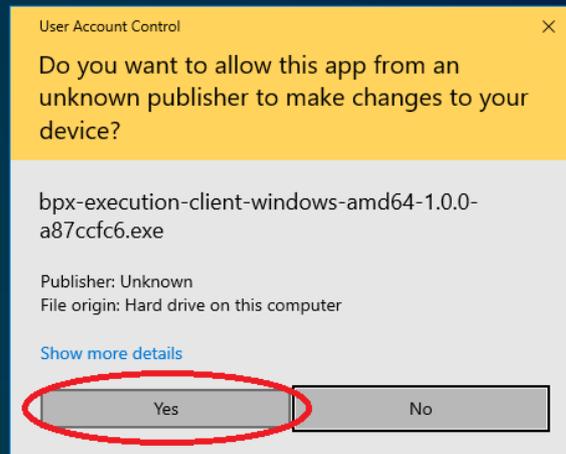
App: bpx-execution-client-windows-amd64-1.0.0-a8
7ccfc6.exe

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.

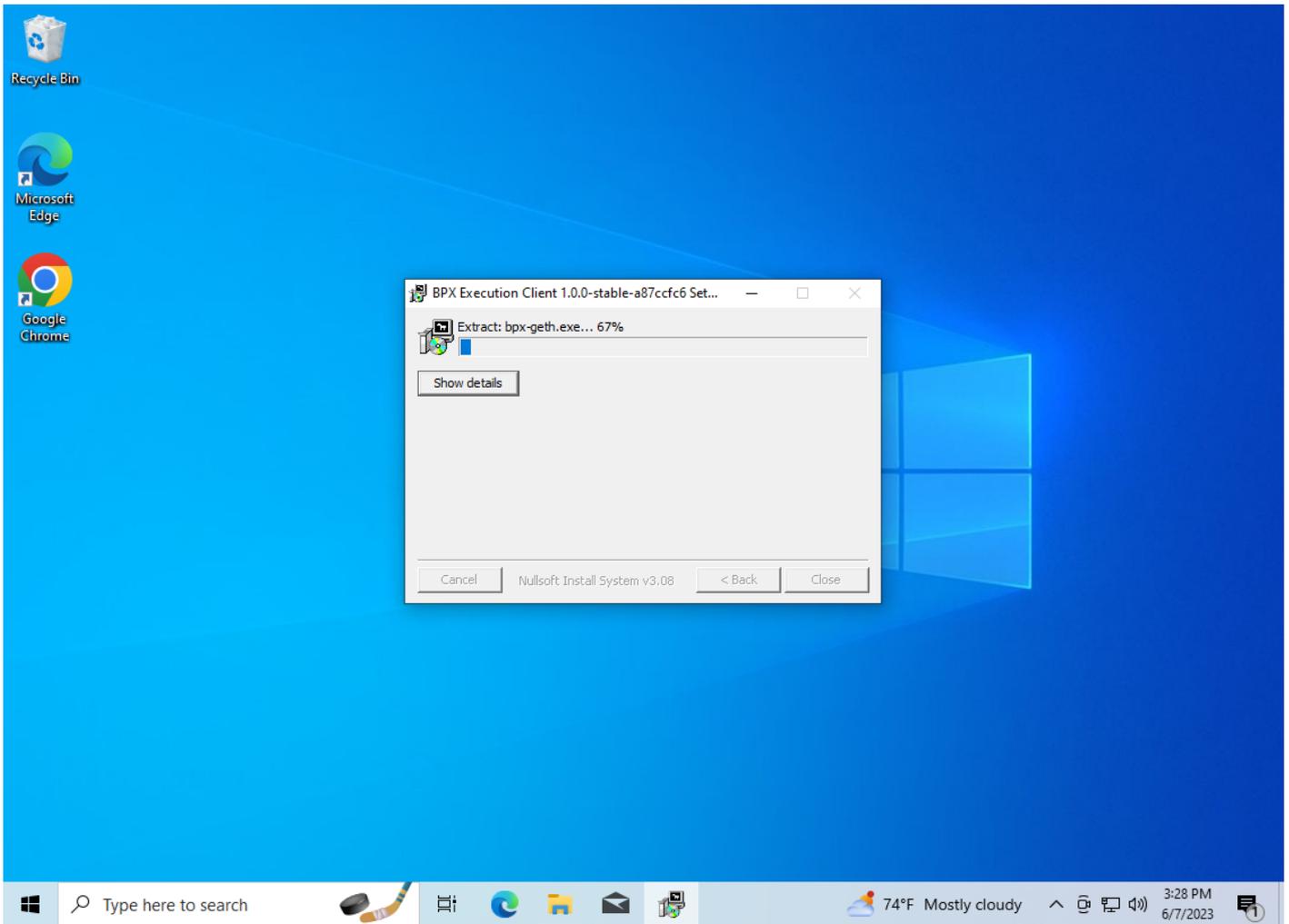
Preamble

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

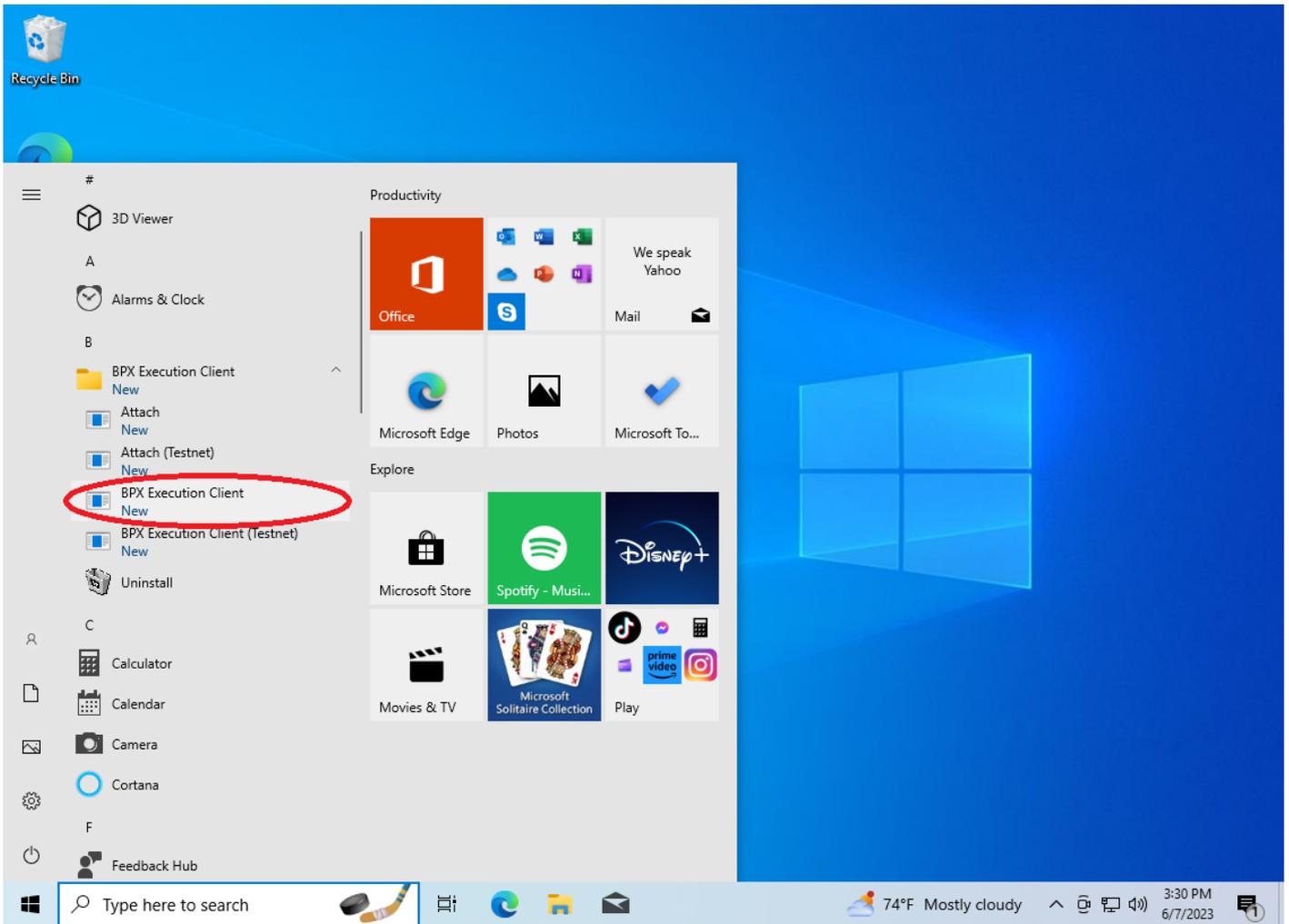
The licenses for most software and other practical works are designed

Cancel Nullsoft Install System v3.08 I Agree

Windows taskbar with search bar (Type here to search), taskbar icons (Task View, Edge, File Explorer, Mail, Print), system tray (74°F Mostly cloudy, volume, network, time: 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.



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|15:35:40.093]
WARN [06-07|15:35:40.250]
WARN [06-07|15:35:40.284]
INFO [06-07|15:35:40.289]
INFO [06-07|15:35:40.471]
INFO [06-07|15:35:40.742]
INFO [06-07|15:35:40.812]
INFO [06-07|15:35:41.324]
INFO [06-07|15:35:41.406]
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.

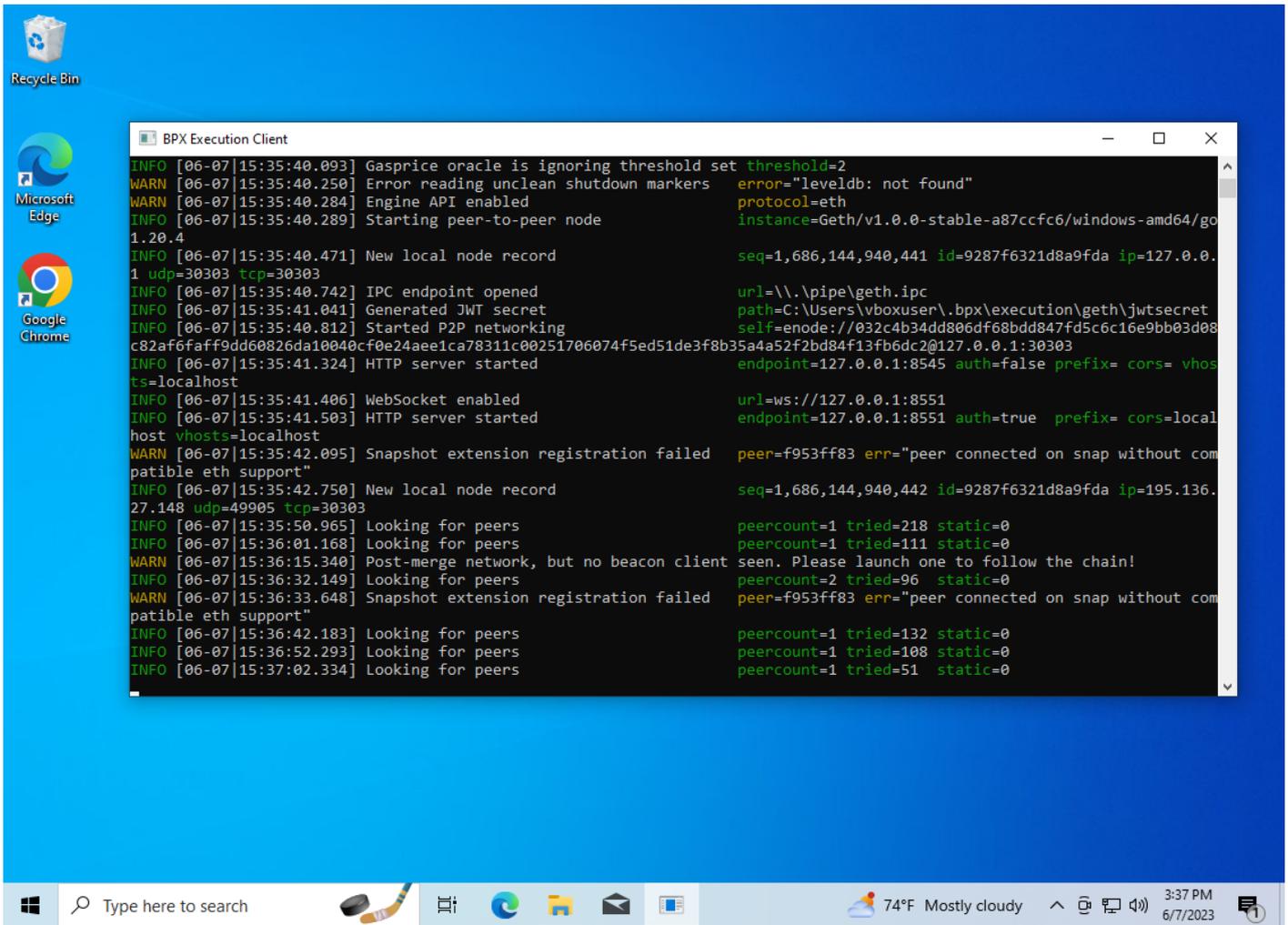
Name: **bpx-geth**
 Publisher: Unknown
 Path: C:\program files\bpx execution client\bpx-geth.exe

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



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.

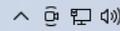
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install BPX Beacon Client.

BPX Beacon Client 3.0.1

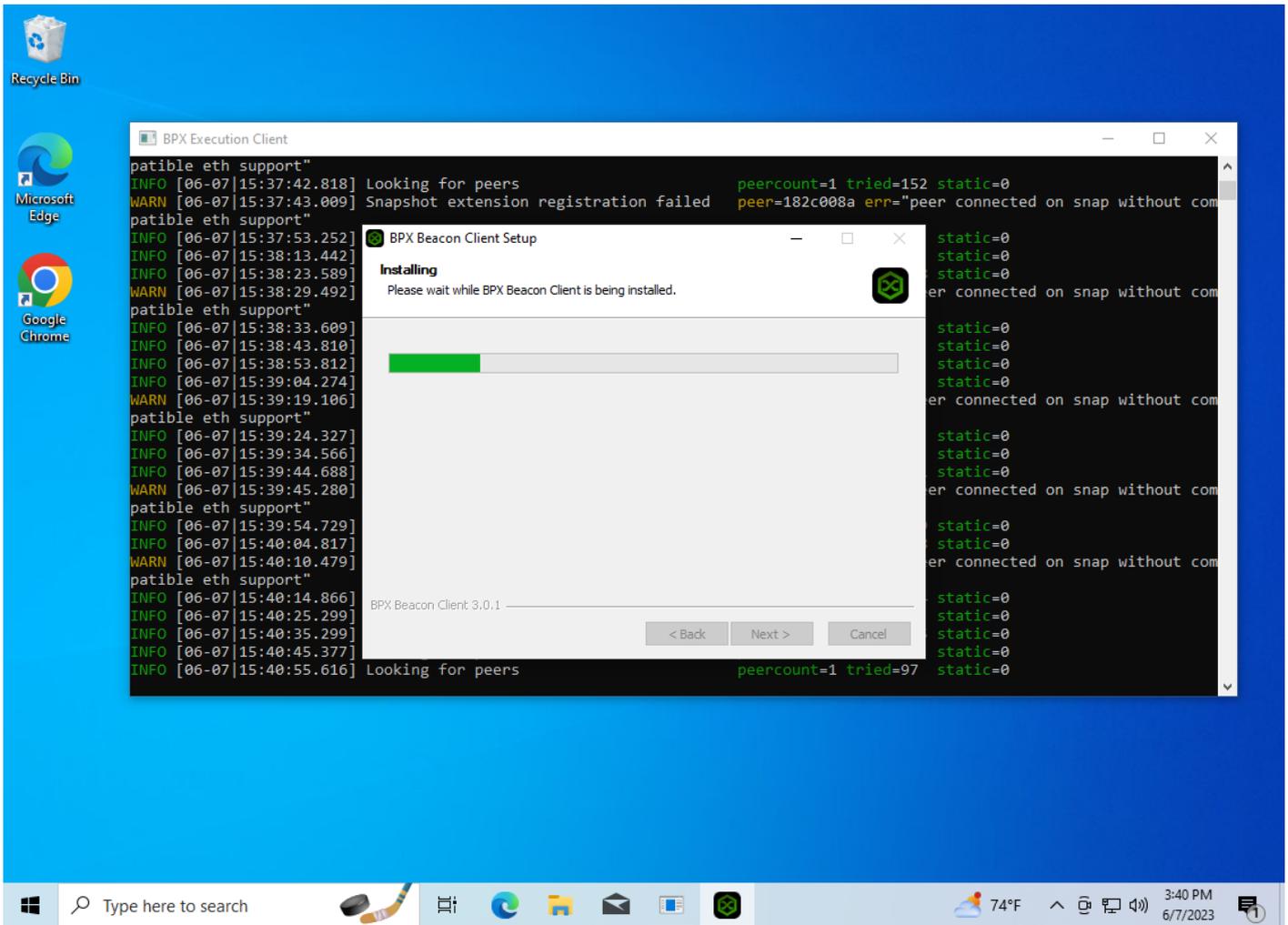
Type here to search



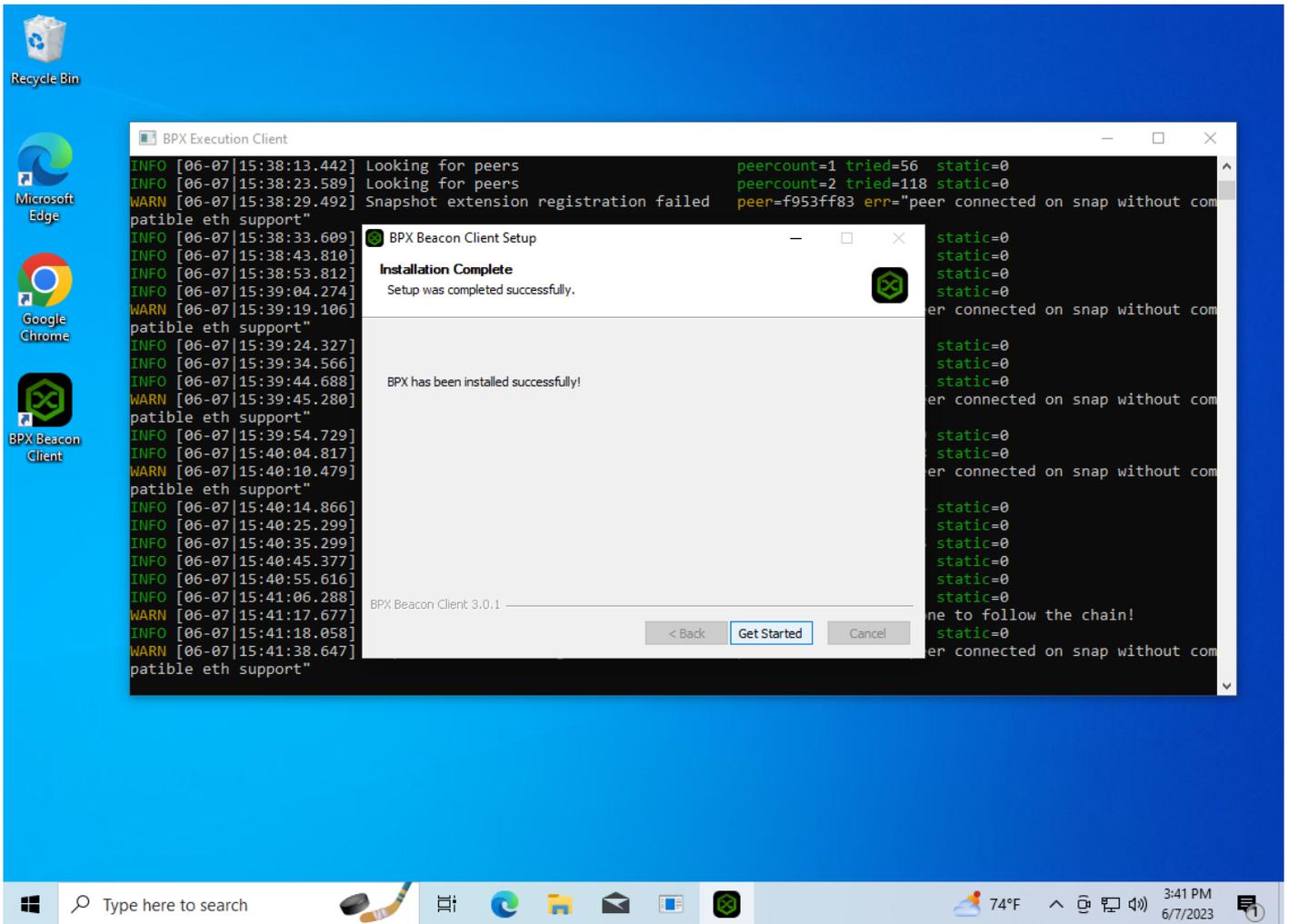
74°F



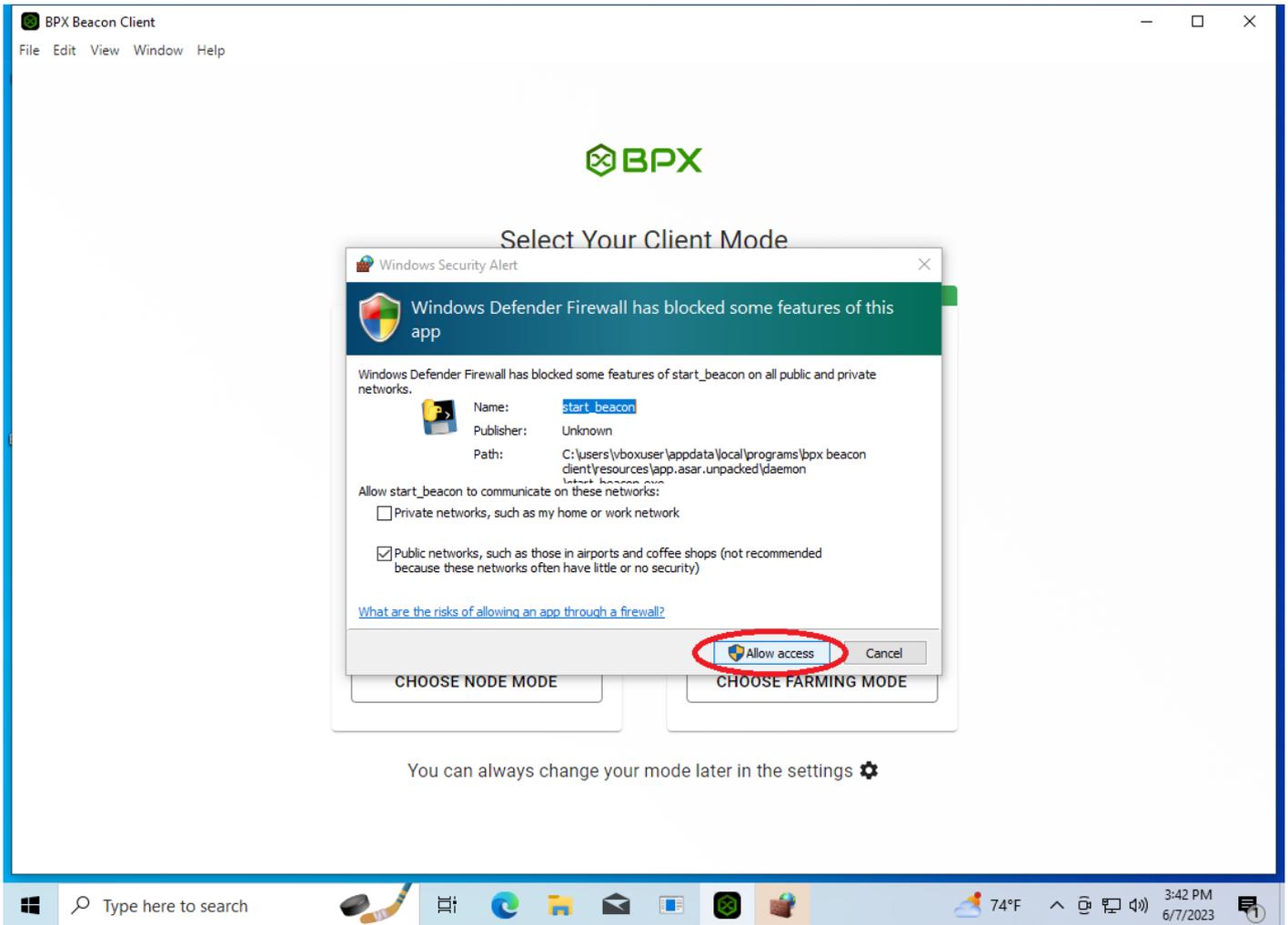
3:39 PM
6/7/2023



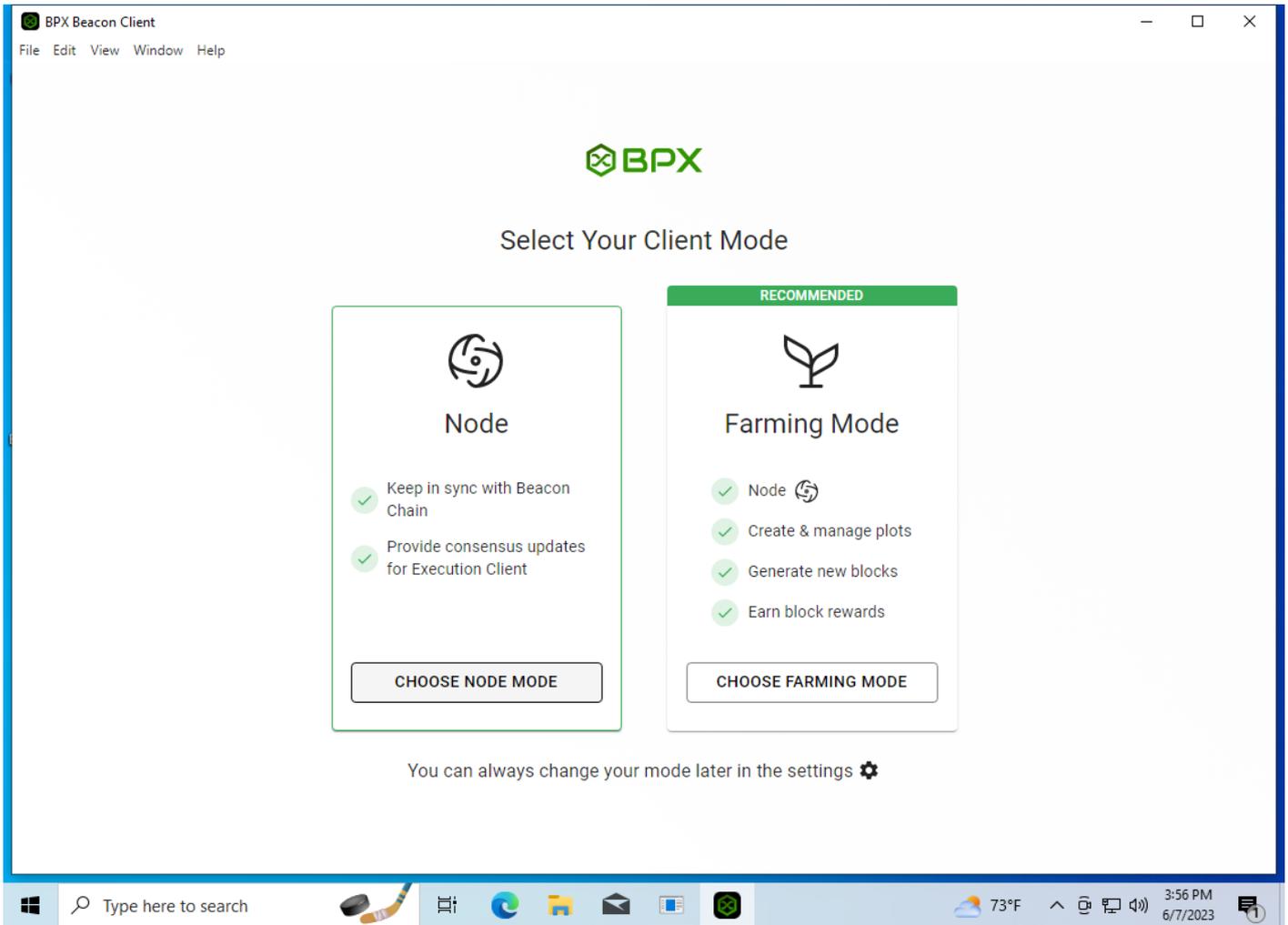
8. Once the installation is complete, click the **"Get Started"** button.



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



Settings

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

Windows taskbar: 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	Connection Status	Network Name
Synced	Connected	mainnet
Peak Height	Last Block Time	Difficulty
76,165	June 8, 2023 1:46 AM	18
VDF Sub Slot Iterations	Total Iterations	Estimated Network Space
27,262,976	57,430,769,622	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.



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 displays the BPX Beacon Client application. The main window, titled "Beacon Client", contains a console window for the "BPX Execution Client". The console output shows a series of log messages, including "Imported new potential chain segment", "Chain head was updated", and "Looking for peers". A large green "Control + C" is overlaid on the console. A red "X" is drawn over the close button in the top right corner of the console window. The Windows taskbar is visible at the bottom, showing the time as 10:34 AM on 6/8/2023.

Revision #10

Created 7 June 2023 11:15:51 by Admin

Updated 4 November 2024 12:41:29 by Admin