

Computing Node

Onboard a new node

Create a New Device ID

Go to "Node" and then "Connect". Click on the "Create New DeviceID" button.

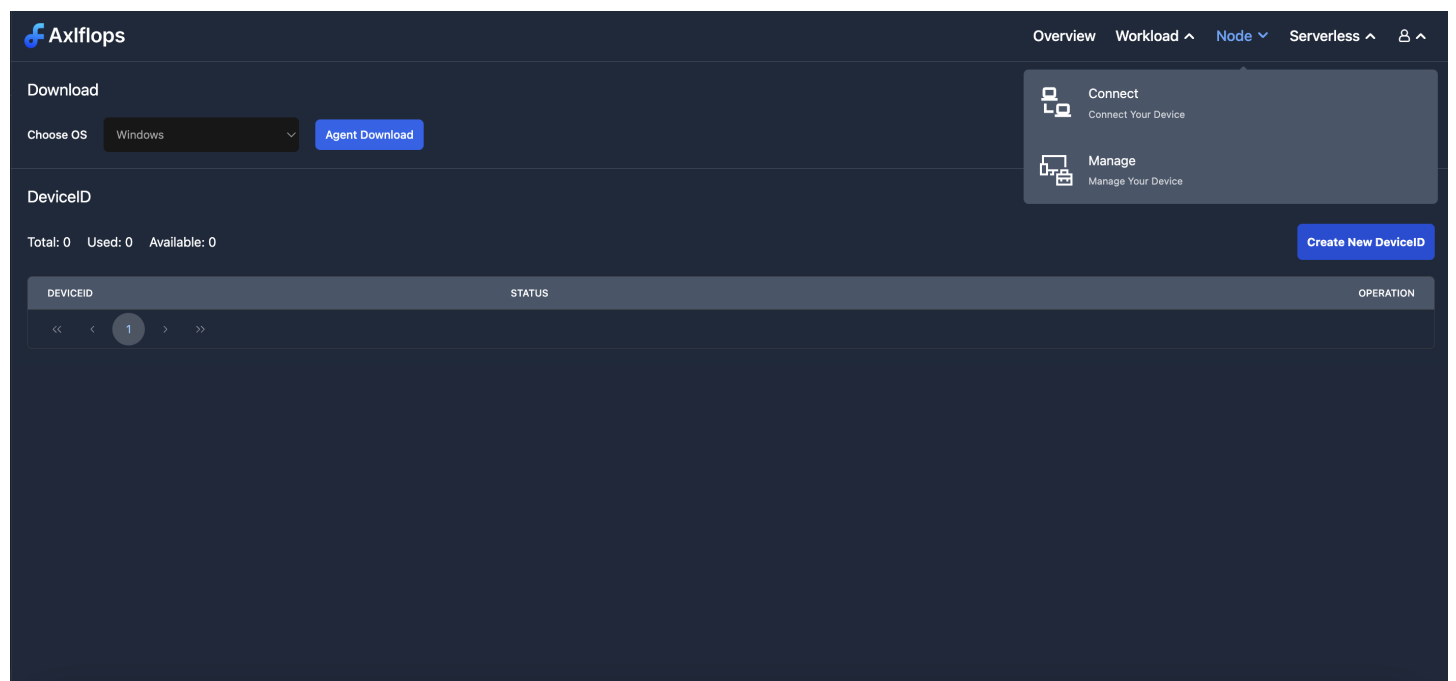


Figure: Create a new device ID

If you are going to onboard one computing node, leave it at 1 and click on the "Confirm Amount" button.

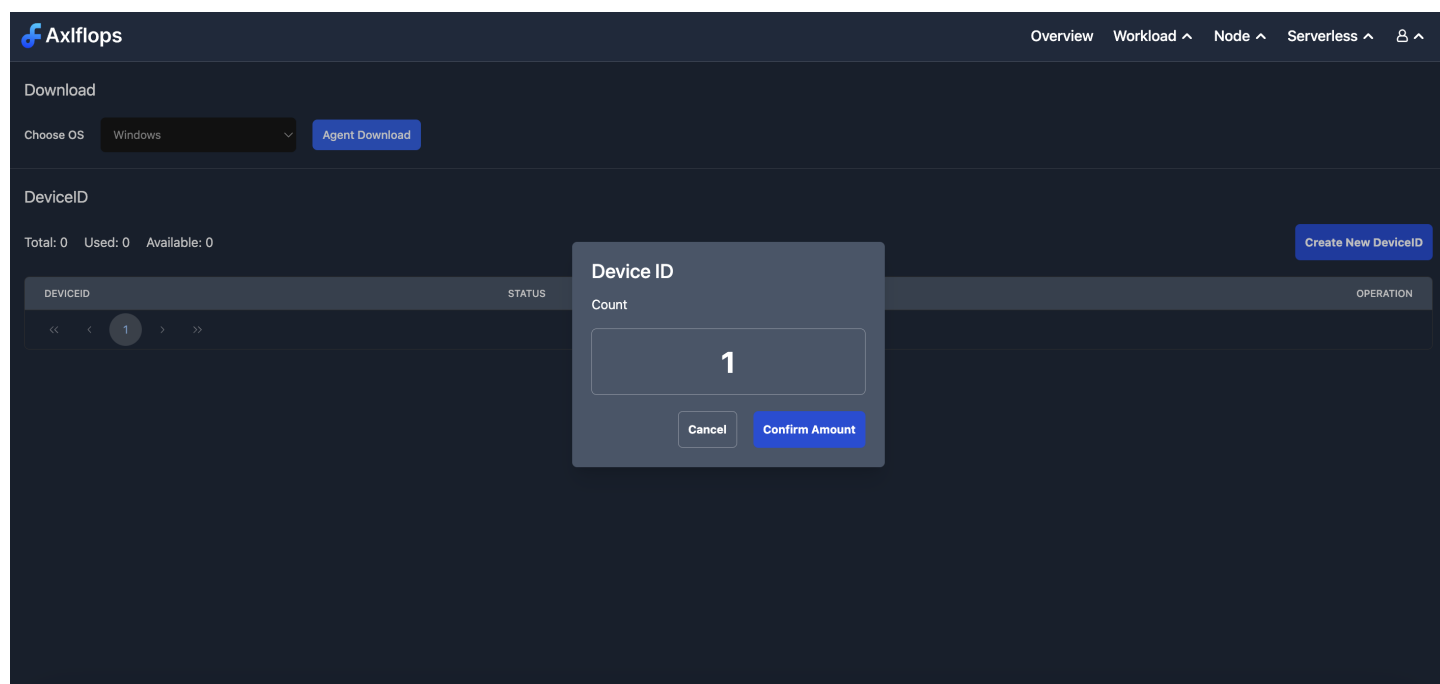


Figure: Confirm node amount

Now you have a new device ID, which can be used to onboard your computing node.

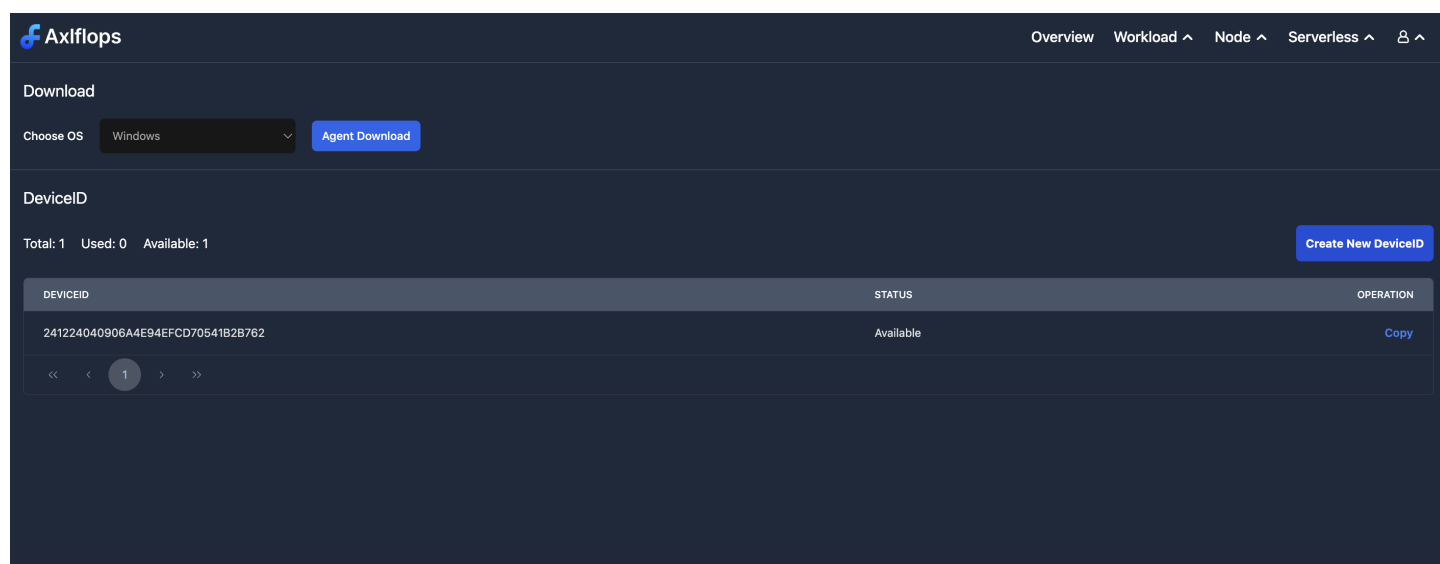


Figure: New device ID

Device IDs that can be used are shown as "Available". Device IDs that have already been used are shown as "Used".

Axlflops

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[Workload](#)
[Node](#)
[Serverless](#)

Download

Choose OS

Windows

Agent Download

DeviceID

Total: 8

Used: 6

Available: 2

Create New DeviceID

| DEVICEID | STATUS | OPERATION |
|----------------------------------|-----------|-----------|
| 241225050003B3E4C20F20C14946BA99 | Available | Copy |
| 241225050003779686FB94F14DB5A933 | Available | Copy |
| 241224040906A4E94EFC70541B2B762 | Used | |
| 241225042528DA23B070499F41CA978D | Used | |
| 241225042605C3224F27FC0948358350 | Used | |
| 241225042642E6583B554A70423695BC | Used | |
| 241225042708965A7A890BCE4A2FA4D1 | Used | |
| 2412250427388CC6DEBF59E840ABB8E1 | Used | |

Figure: Used and Available ID

Install Node Agent

Go to your computing node, which is your computer with a GPU, and make sure that your GPU driver and related dependencies are install. For example, with NVIDIA GPU, you need to install NVIDIA GPU driver and CUDA.

```
C:\Users\vipuser>nvidia-smi
Wed Dec 25 12:47:43 2024

+-----+
| NVIDIA-SMI 566.14                  Driver Version: 566.14          CUDA Version: 12.7          |
+-----+-----+
| GPU   Name                Driver-Model  Bus-Id         Disp.A   Volatile Uncorr. ECC |
| Fan  Temp  Perf           Pwr:Usage/Cap     Memory-Usage  GPU-Util  Compute M. |
|              |              |              |              |              |
+-----+-----+
|  0  NVIDIA GeForce RTX 4090  WDDM        00000000:00:08:0 Off      0%          Off |
| 35%   34C   P8             8W / 450W        631MiB / 24564MiB             Default |
|              |              |              |              |              |
+-----+-----+

+-----+
| Processes: |
| GPU   GI    CI          PID    Type   Process name                      GPU Memory |
|      ID    ID              |              | Usage     |
+-----+-----+
|  0   N/A   N/A         460      C   C:\Users\vipuser\anaconda3\python.exe      N/A       |
|  0   N/A   N/A        2252     C+G   ...oogle\Chrome\Application\chrome.exe     N/A       |
|  0   N/A   N/A        7668     C+G   C:\Windows\explorer.exe                   N/A       |
|  0   N/A   N/A        7868     C+G   ...2txyewy\StartMenuExperienceHost.exe     N/A       |
|  0   N/A   N/A        9156     C+G   ...\Axlflops\axlflops-client-agent.exe     N/A       |
|  0   N/A   N/A        9368     C+G   ...5nlh2txyewy\ShellExperienceHost.exe     N/A       |
|  0   N/A   N/A        9392     C+G   ....Search_cw5nlh2txyewy\SearchApp.exe     N/A       |
+-----+

C:\Users\vipuser>nvidia-smi -L
GPU 0: NVIDIA GeForce RTX 4090 (UUID: GPU-d0a82330-d8f6-0d4b-72ce-969be23041fc)
```

Figure: NVIDIA GPU driver and CUDA

Download the Node Agent by going to choosing your OS and clicking on the "Agent Download" button. And install the downloaded installation file.

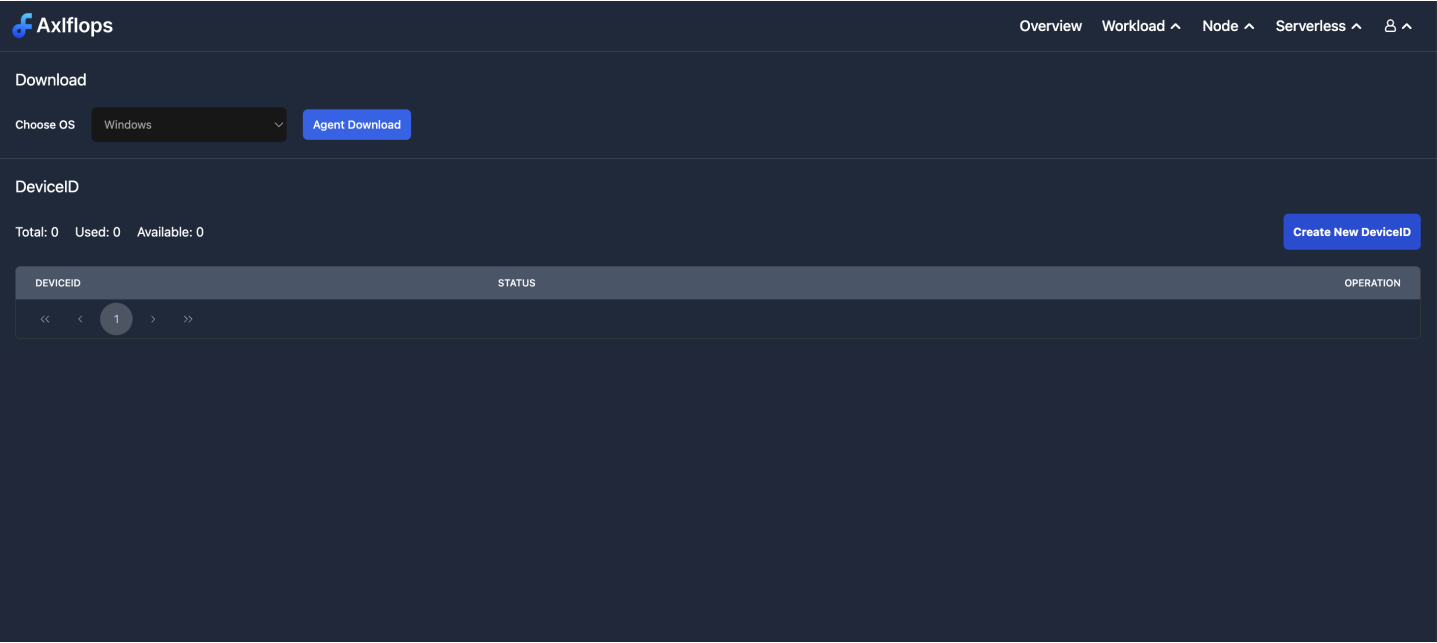


Figure: Download Node Agent

After installation, launch the Node Agent.

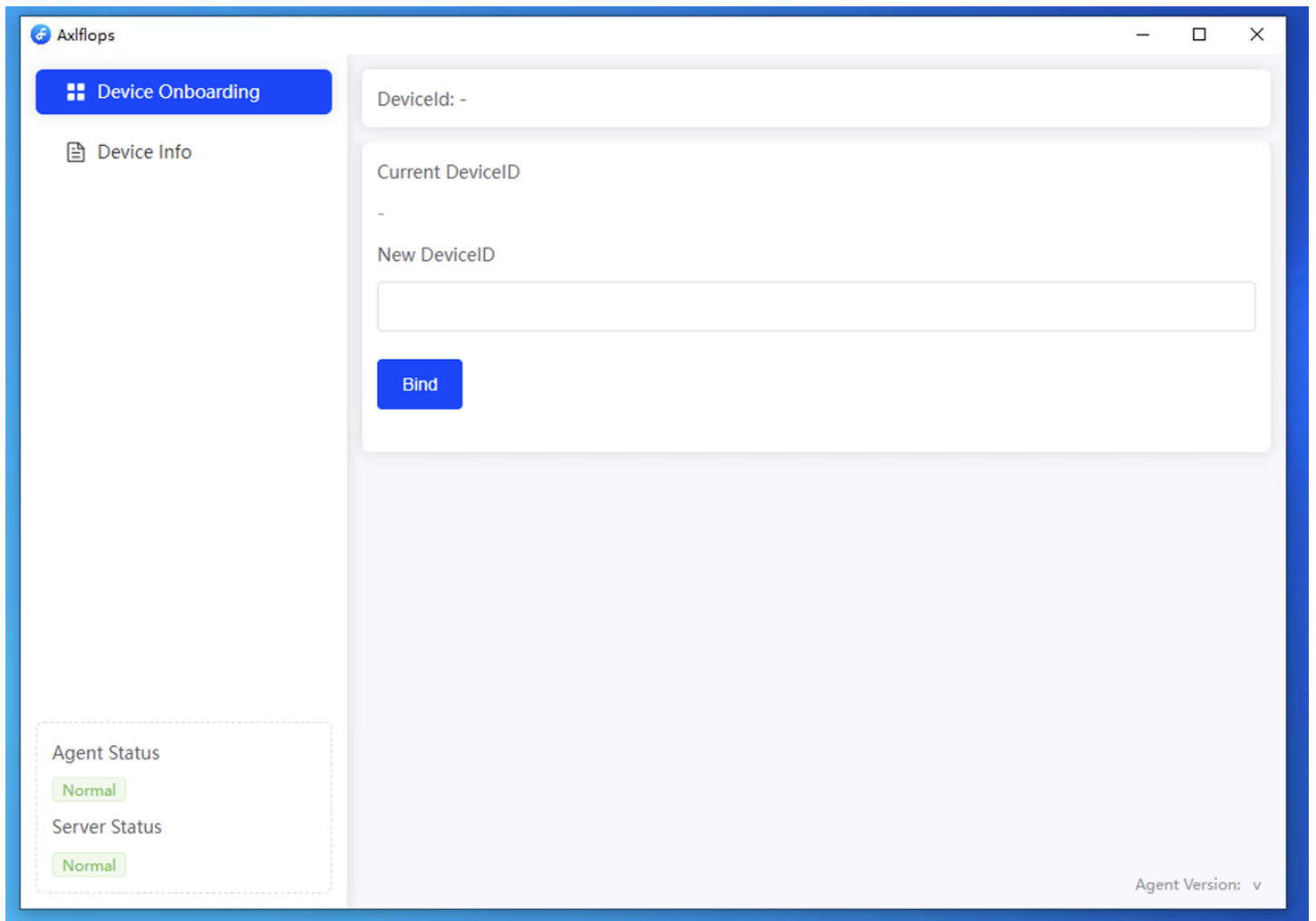


Figure: Node Agent

Input the newly generated Device ID and click on the "Bind" button.

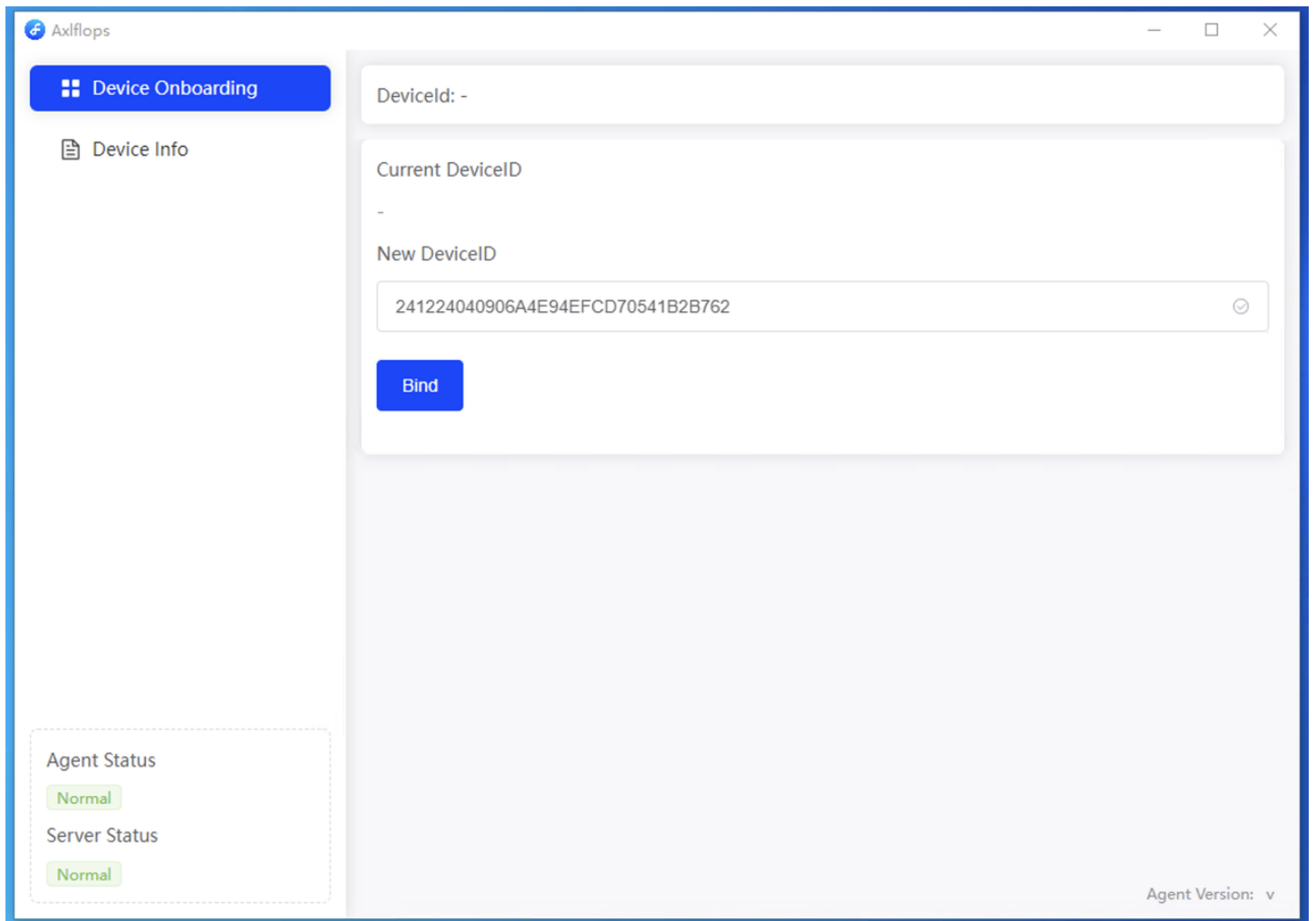


Figure: Input Device ID

If the GPU is successfully onboarded, you will be prompted "Success".

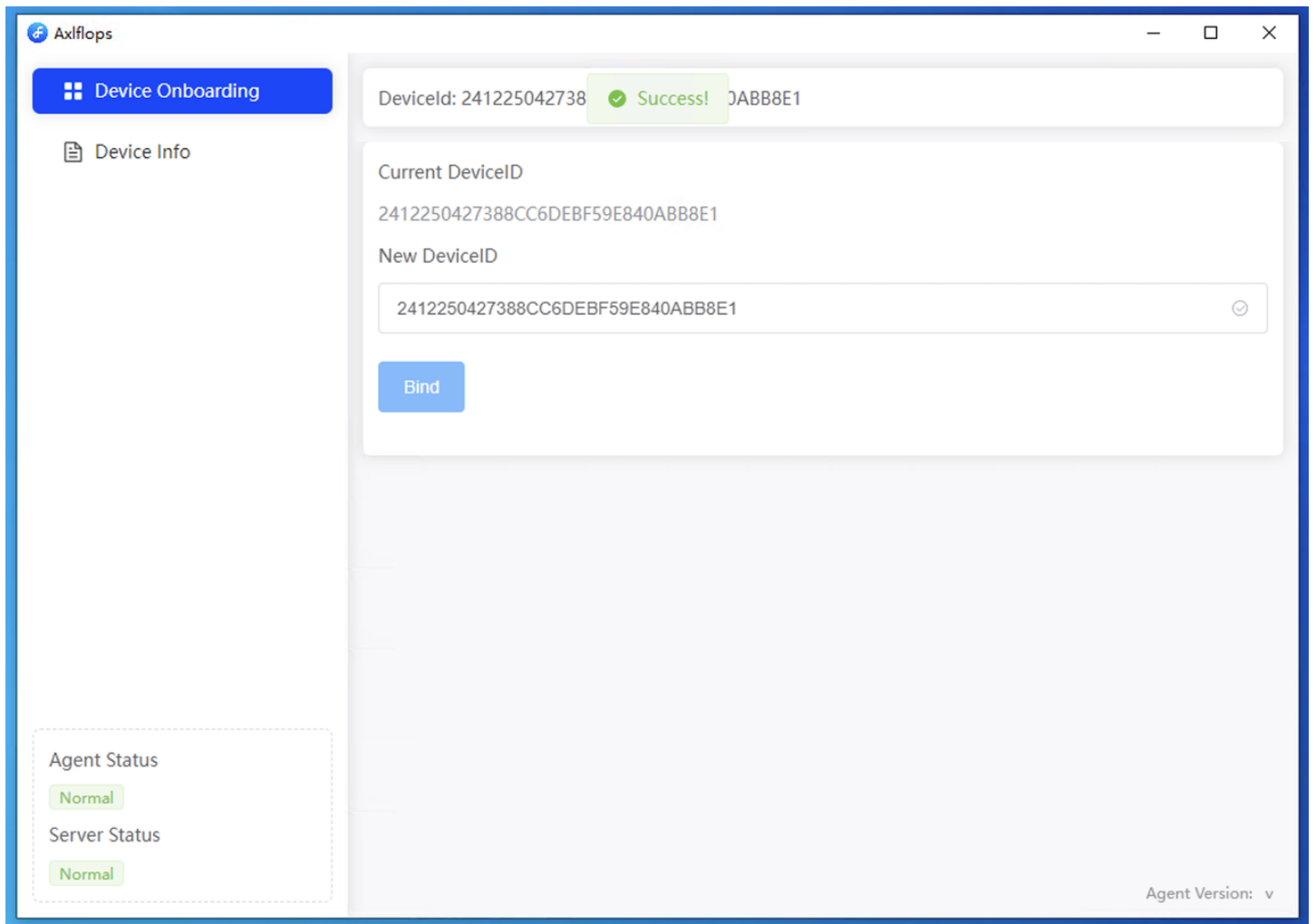


Figure: Binding successful

Go to the "Device Info" tab, and you can check your computing node info, like CPU, RAM, GPU, etc.

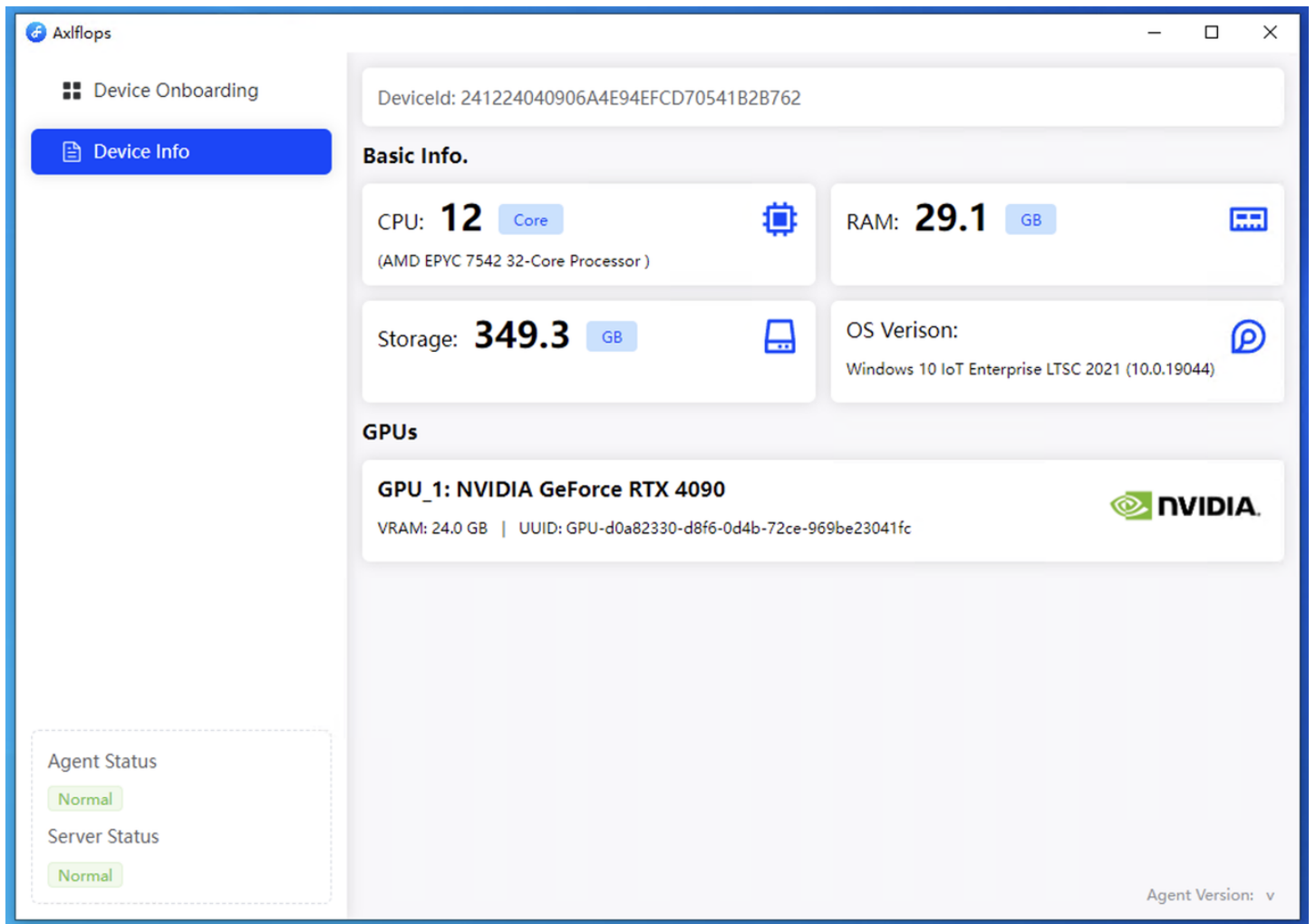


Figure: Device info

Quit Node Agent

If you need to stop your computing node from being connected to the Axlflops Network, you can go to the notification area and find the Axlflops icon.

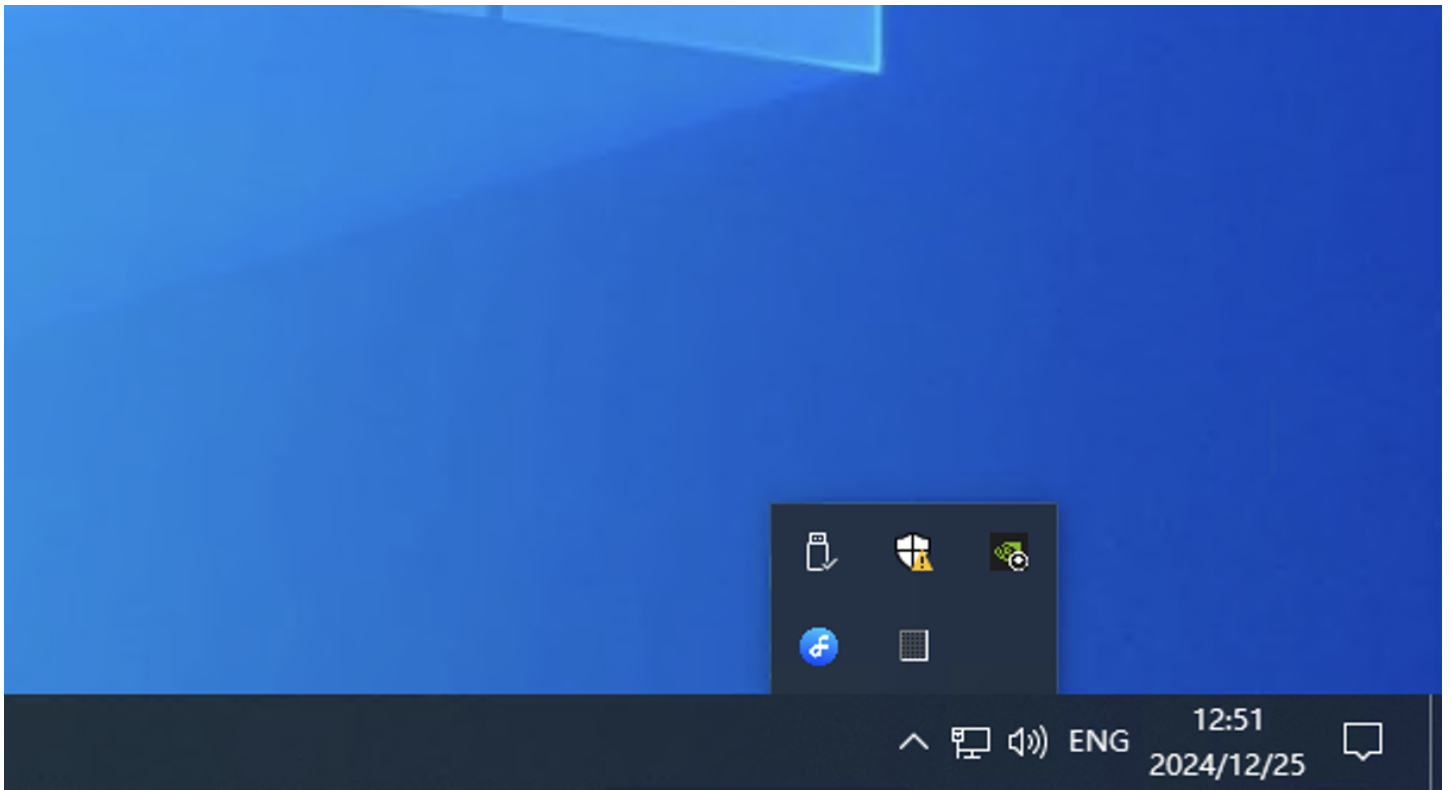


Figure: Axlflops icon in the notification area

Right click on the icon then click "Quit"

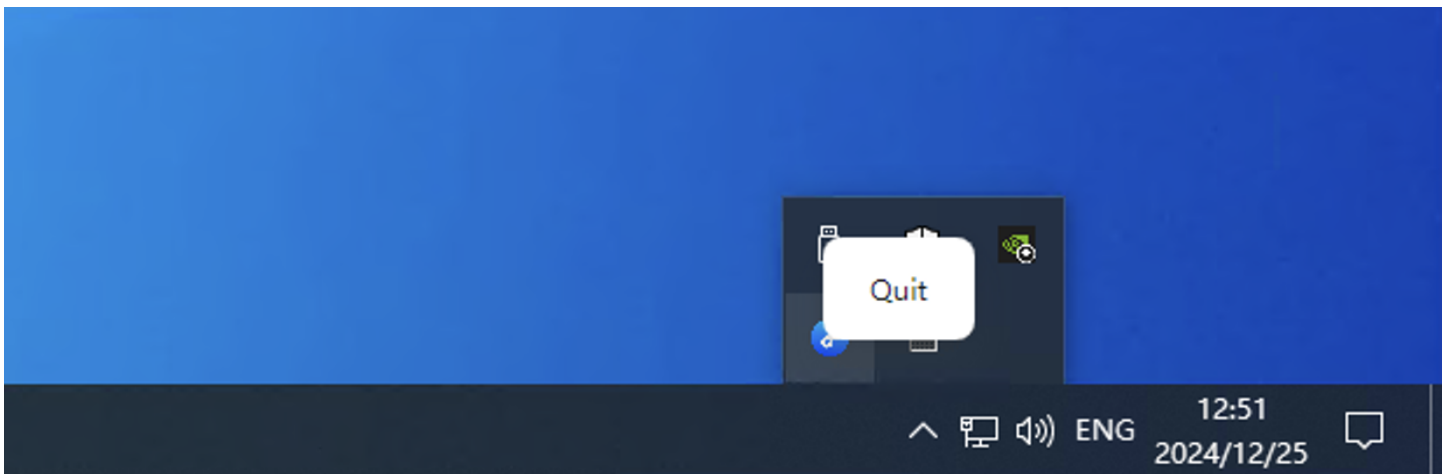


Figure: Quit

Manage your nodes

Go to "Node" -> "Manage" and you can see all your existing computing nodes.

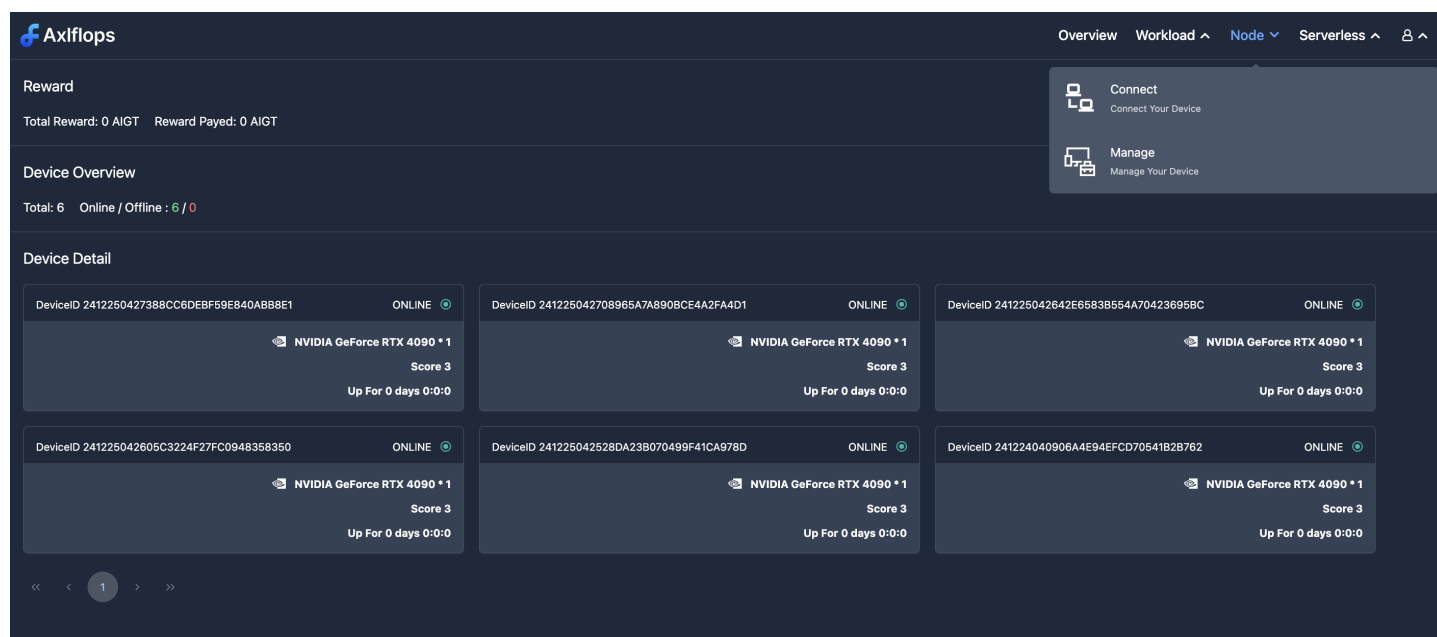


Figure: Node Details

Each tile represents a computing node, e.g. an available computing nodes ready for AI computing tasks is displayed as "ONLINE"; an unavailable one is displayed as "OFFLINE". You can also view other info about the node, like Device ID, GPU and uptime, from the tile representing it.

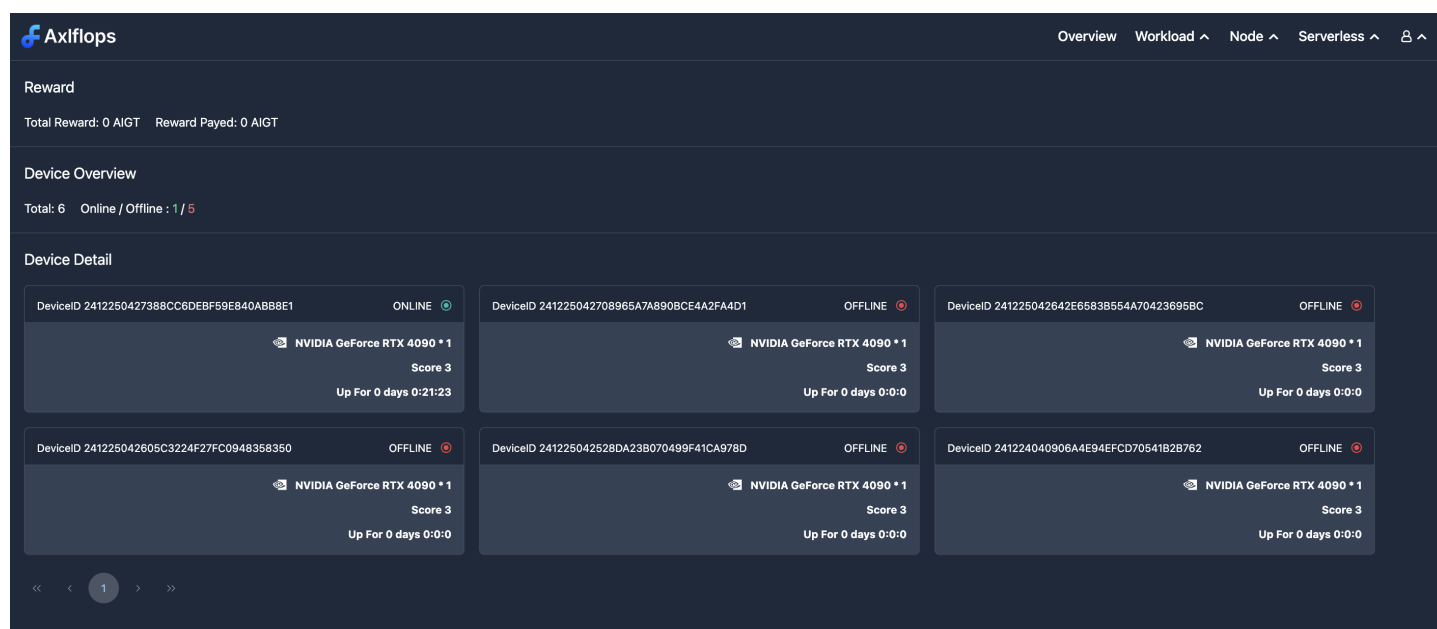


Figure: Node Status