



**Computing Power.
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Golem Network Provider Node - Windows Subsystem for Linux

Deployment Presentation

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Github - <https://github.com/r34x/>

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Purpose

The reason behind this install is to help standardize installations across the network to known-good states. This will aid in troubleshooting nodes and resolving bugs. In addition, this is built for users that use Windows 10 instead of Linux as their primary operating system.



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Objective

The objective is to get the Golem Provider installed on Windows Subsystem for Linux. This will ease the barrier to entry, as there are only a few simple Linux tasks to run once nested virtualization is enabled.



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Prerequisites

- You MUST be using Windows 10 Insider Preview Dev channel Build 21354.1
AND
 - Windows Subsystem for Linux Update 5.4.72



Instructions

Download the Windows 10 Dev Channel Build 21354

https://drive.google.com/file/d/1rKlihZ2EgC8_DfVIWRHsg6OMdHt-fDjI/view?usp=sharing

- 2) Install as normal. Recommend a VM, but can be installed on a physical machine.
- 3) Make sure all virtualization features are turned on for your environment.
- 4) Download and install the Windows Subsystem for Linux Update 5.4.72
(https://wslstorestorage.blob.core.windows.net/wslblob/wsl_update_x64.msi)
- 5) Reboot the machine
- 6) Open Powershell as Administrator and type the following: `wsl --set-default-version 2`
- 7) Open the Windows Store and search for Ubuntu 20.04. Download and install.
- 8) Launch when installation is complete. You should see a \$ prompt
- 9) Enter `uname -a` to verify the kernel. Should report 5.4.72-microsoft-standard-WSL2
- 10) Enter `sudo apt update && sudo apt full-upgrade && sudo apt install cpu-checker && sudo apt install acl`
- 11) Enter `sudo kvm-ok`
 - a. You should see the following: `INFO: /dev/kvm exists. KVM acceleration can be used.`



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Instructions

12) If you get a message that `/dev/kvm` does not exist, enter the following commands:

- a. `curl -o setup-kvm.sh https://join.golem.network/setup-kvm.sh`
- b. `sudo chmod +x ./setup-kvm.sh`
- c. `./setup-kvm.sh`

13) Download the Golem Provider installation script at <https://github.com/r34x/Automatic-Golem> to setup your Golem Provider.

Demo Walkthrough.



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Monitoring Your Provider

I've added some nice features for monitoring your system and Golem Provider.

- A Netdata install is included that allows you to monitor every aspect of your machine. More info about Netdata is available on their site
 - <https://www.netdata.cloud/>
- Once WSL is set up and configured, you can run “watch -c golemsp status”. This will monitor the process and refresh the screen every 2 seconds by default.



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Conclusion

This project was a lot of fun to work on and I hope it helps you become a better provider and allows you to get up to speed quickly. If you have any questions, please reach out. My contact info is on Page 1.

Thank you!