Computing Power.
Shared

Golem Network Provider Node

(Mostly) Automated Deployment Presentation

Adam Mayfield

2 April, 2021

Github - https://github.com/r34x/Automatic-Golem

Reddit - /u/r4x

Discord - r4x#2916

Email – amayfield1979@gmail.com

Computing Power.
Shared

Purpose

The reason behind this automated provider install is to help standardize installations across the network to known-good states. This will aid in troubleshooting nodes and resolving bugs.

Computing Power.
Shared

Objective

The objective is to build a 90-95% automated build that will aid new providers in setting up their nodes without needing a lot of Linux or blockchain experience. This will help providers become more effective with less troubleshooting.

Computing Power.
Shared

Prerequisites

The following prerequisites must be met in order for this to work:

- Debian-based Linux install (Ubuntu, Mint, etc…)
- **KVM Must be installed prior to running the Provider installer.**
  - You can test this by running `sudo kvm-ok` to verify
- **BASIC** Linux experience, but this whole project is geared towards inexperienced users with limited experience.

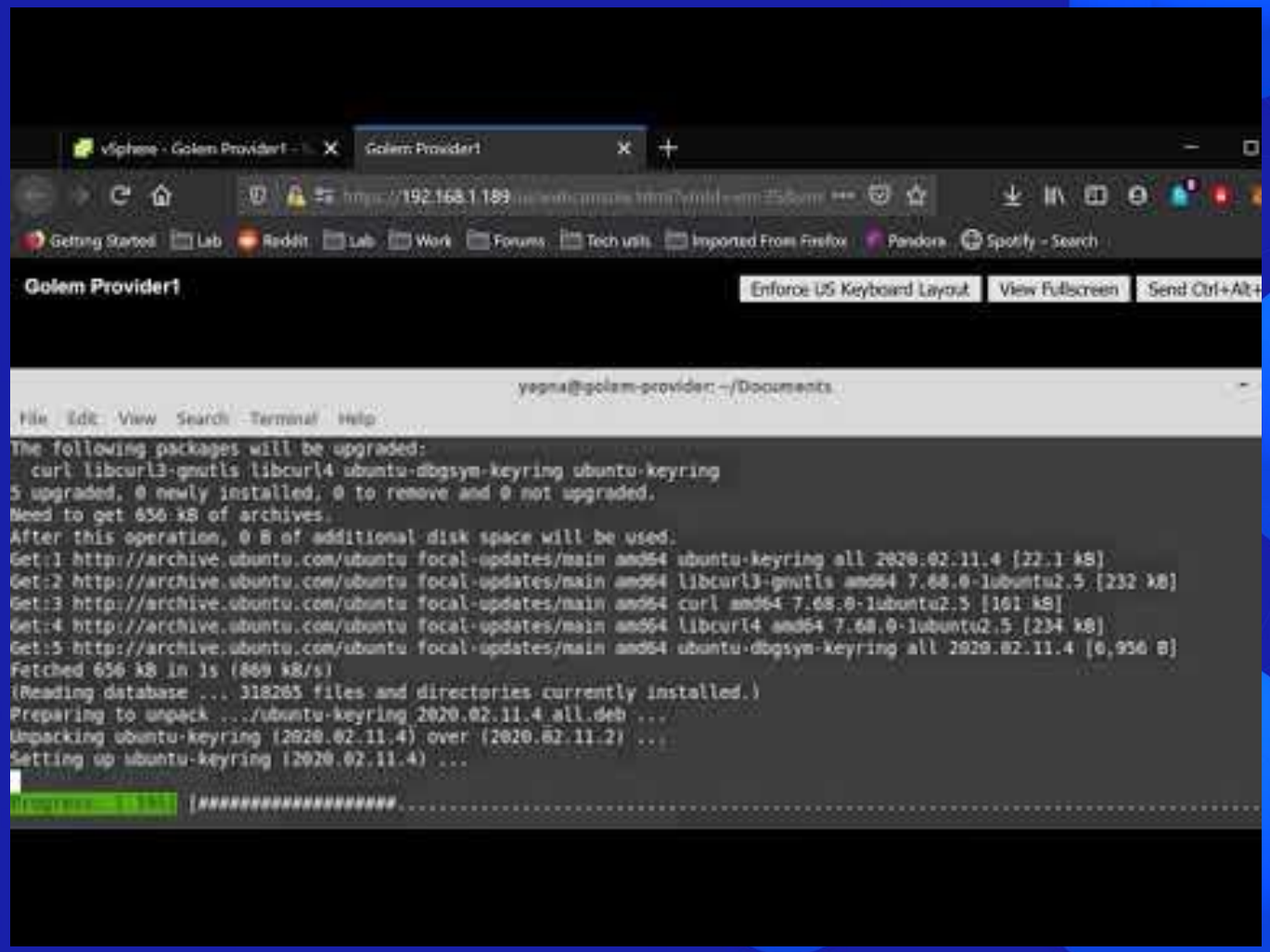
Computing Power.
Shared

Instructions

1. Download GolemDeploy.sh and golemsp.service from https://github.com/r34x/Automatic-Golem
2. Copy the files to the Linux machine you wish to deploy on. Recommend putting them in the /home/<user>/Documents folder.
3. Copy or move the golemsp.service file to /etc/systemd/system.
4. Edit the golemsp.service file and change the fields that contain <your username> to whatever the username of the system is. Remove the brackets when doing so.
5. Navigate to /home/<user>/Documents
6. Launch the installer by running ./GolemDeploy.sh
7. Follow the on-screen instructions
8. Enjoy your newly configured provider!

Demo Walkthrough.

Computing Power. Shared



This walkthrough assumes you already have KVM installed as part of the prerequisites. It does not show copying the golemsp.service file to /etc/systemd/system or modifying the file.

Computing Power.
Shared

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/
- I’ve also included a continuous monitoring command to monitor the provider itself by setting up a watch command to refresh the golemsp status command every 2 seconds. My testing has shown that this also helps keep the provider alive by sending input to the system so no timeouts happen for inactivity.

Computing Power.
Shared

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!