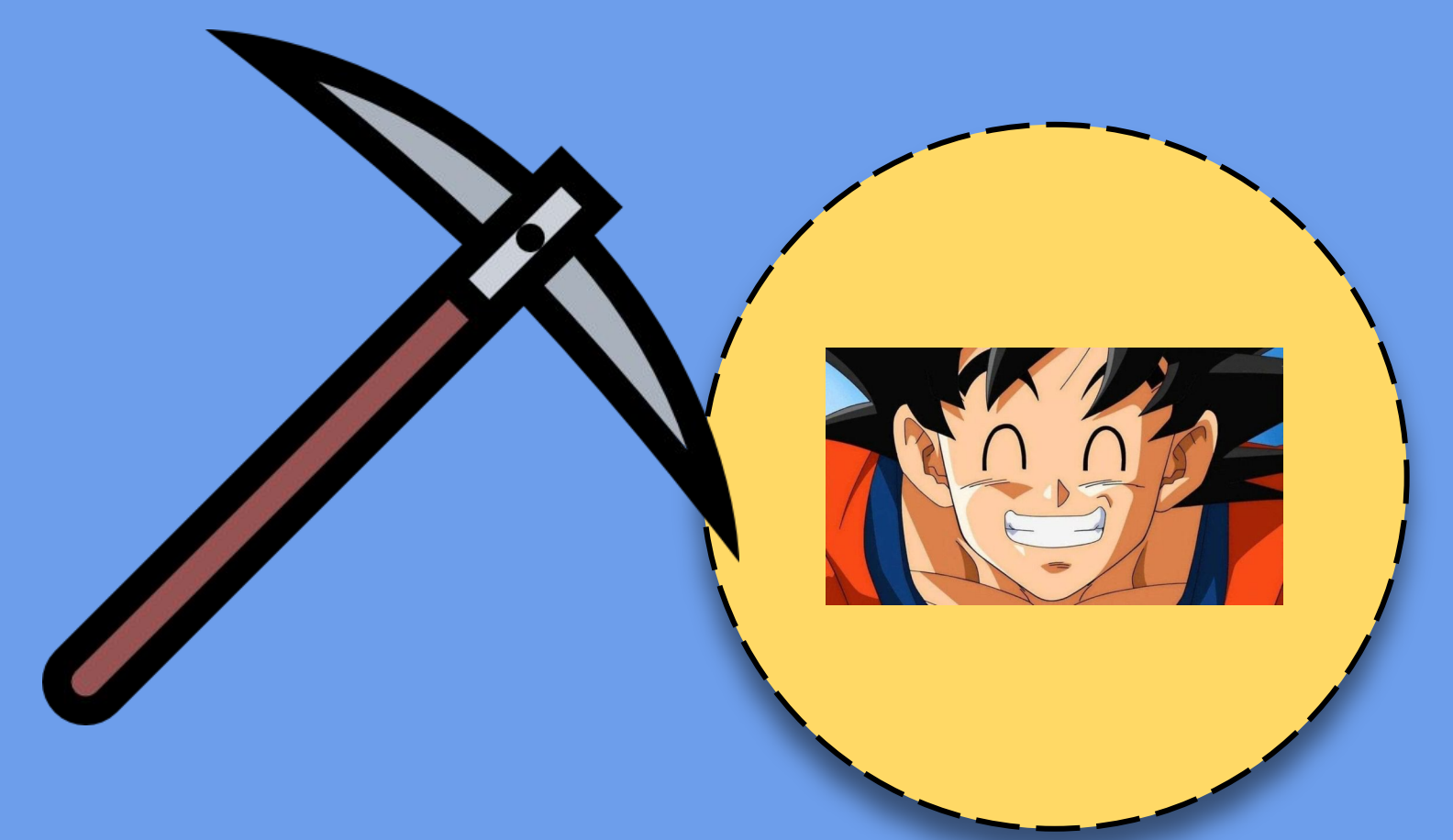


Gokoins Coin Miner

<https://github.com/Every-Villain-Is-Lemons/CSC468-Team-Project>

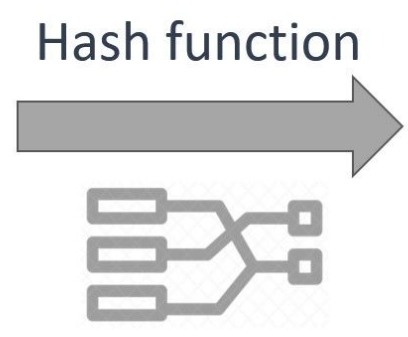
By: Brennan Busza, Bryan Gonzalez-Moyano, Tyler Prehl, Ani Tapia, Matthew Weigand



What IS Gokoins Coin Miner?

Text

Some text
Some text
Some text
Some text
Some text
Some text
Some text



Hash value

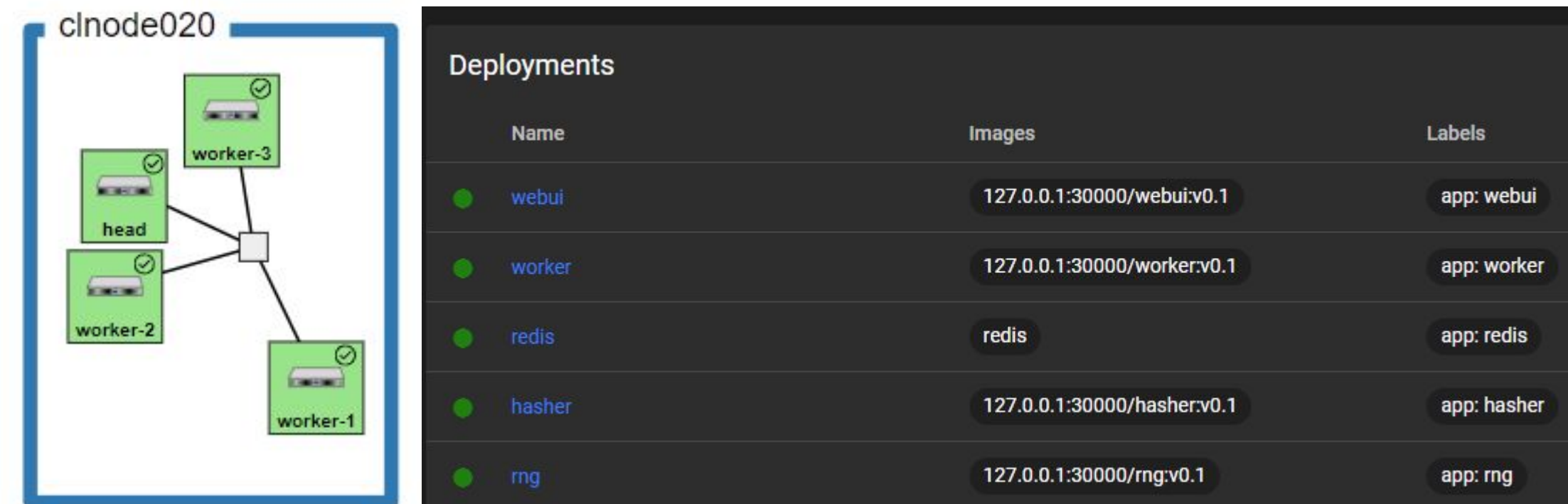
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7b685a412227a40e23c
8bdc6688c6f37e97cfbc2
2d2b4d1db1510d8f61e
6a8866ad7f0e17c02b14
182d37ea7c3c8b9c2683
aeb6b733a1

The basic premise of a coin miner is to mine a fake cryptocurrency by solving hashes

Ours is a tad different than reality

Progress Over Time

Pre-made Kubernetes deployment, courtesy of Dr. Ngo



Progress Continued

Deploying via Jenkins pipelines...



Configure Clouds

The beauty of it - testing features is AMAZINGLY easy

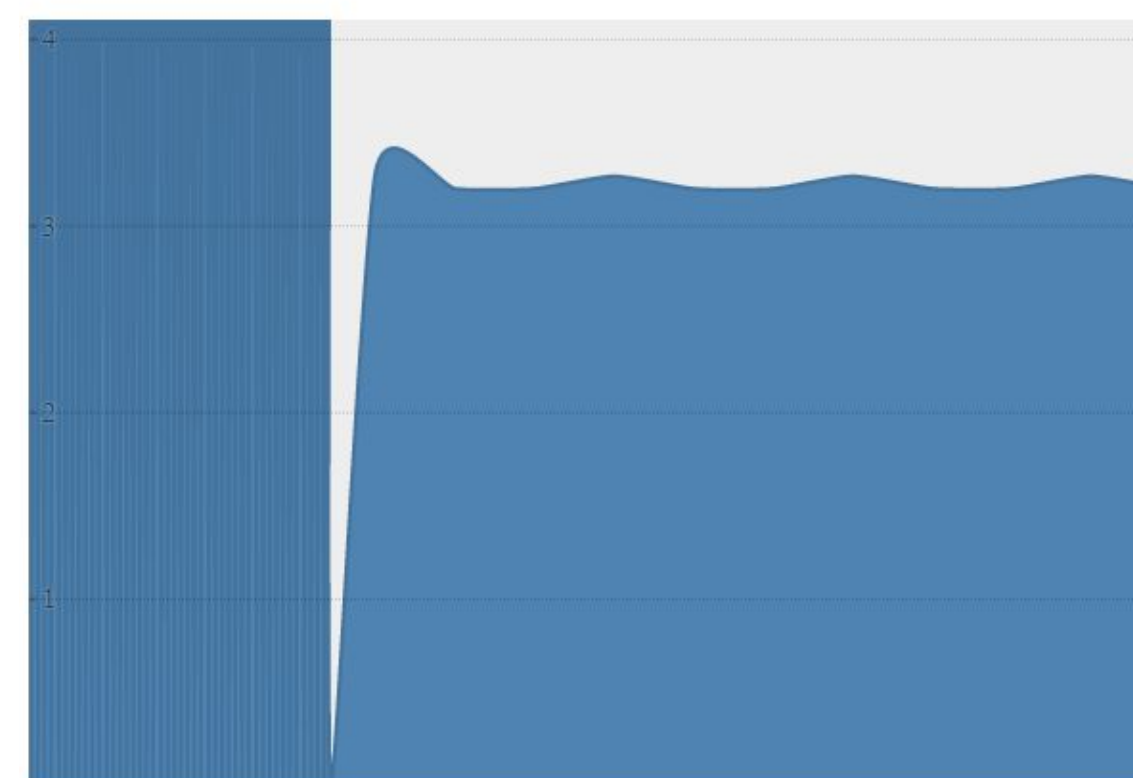
Present Day

- Imperfect pipelines
 - Patching NodePort values
 - Success on kubernetes-dashboard, failure with WebUI
 - Previous deployment errors
 - WebUI
 - Still basic-looking
 - No user-integration
 - No boosting/buying resources
 - Hasher-RNG
 - Still original code, not as true to coin mining as we had hoped
- Conclusions:
- Learning moments
 - Ruby->Python
 - Flask
 - Jenkinsfiles
 - "Dollar slashy strings"
 - GitHub organizations
 - Connecting a web app to a database is *difficult*
- Original Code Base:
<https://github.com/jpetazzo/container.training>

Original Goals

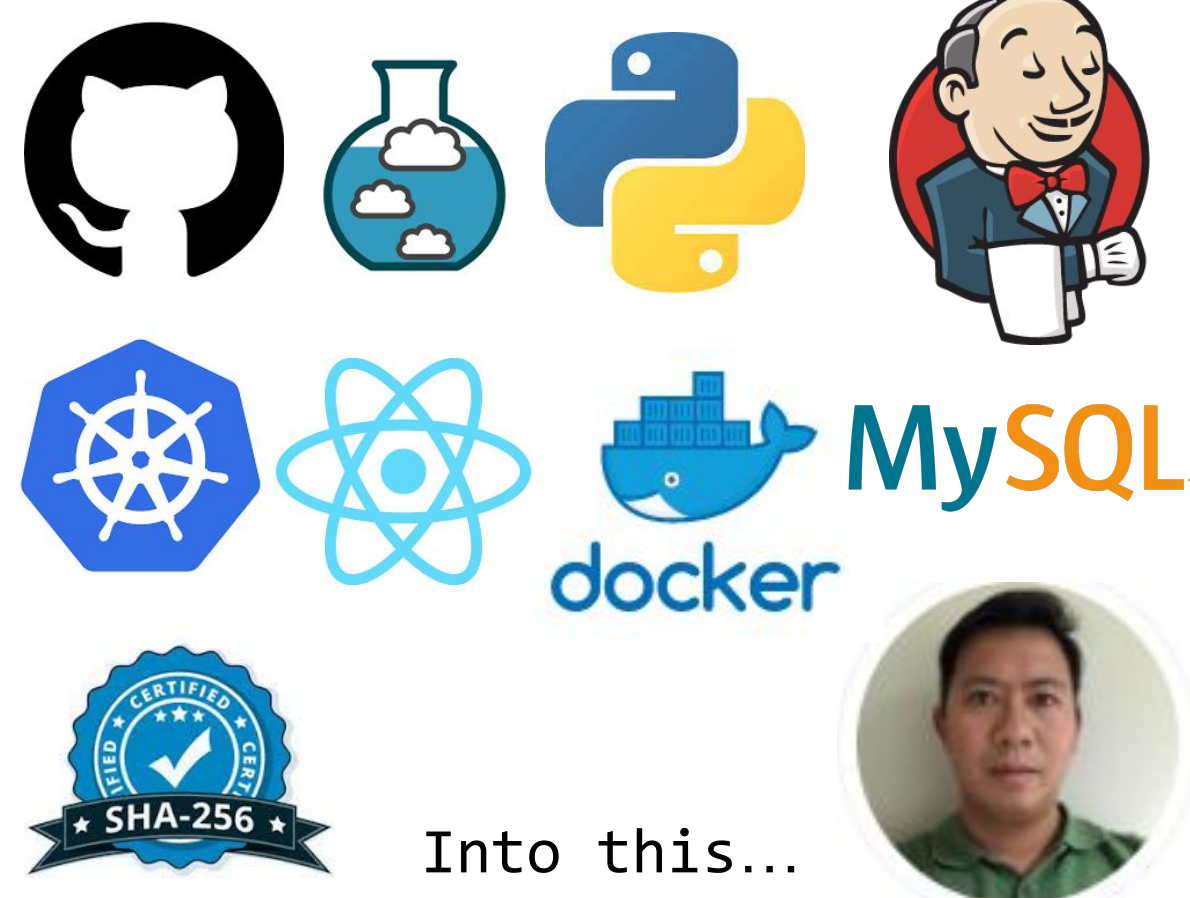
Turn this

DockerCoin Miner WebUI

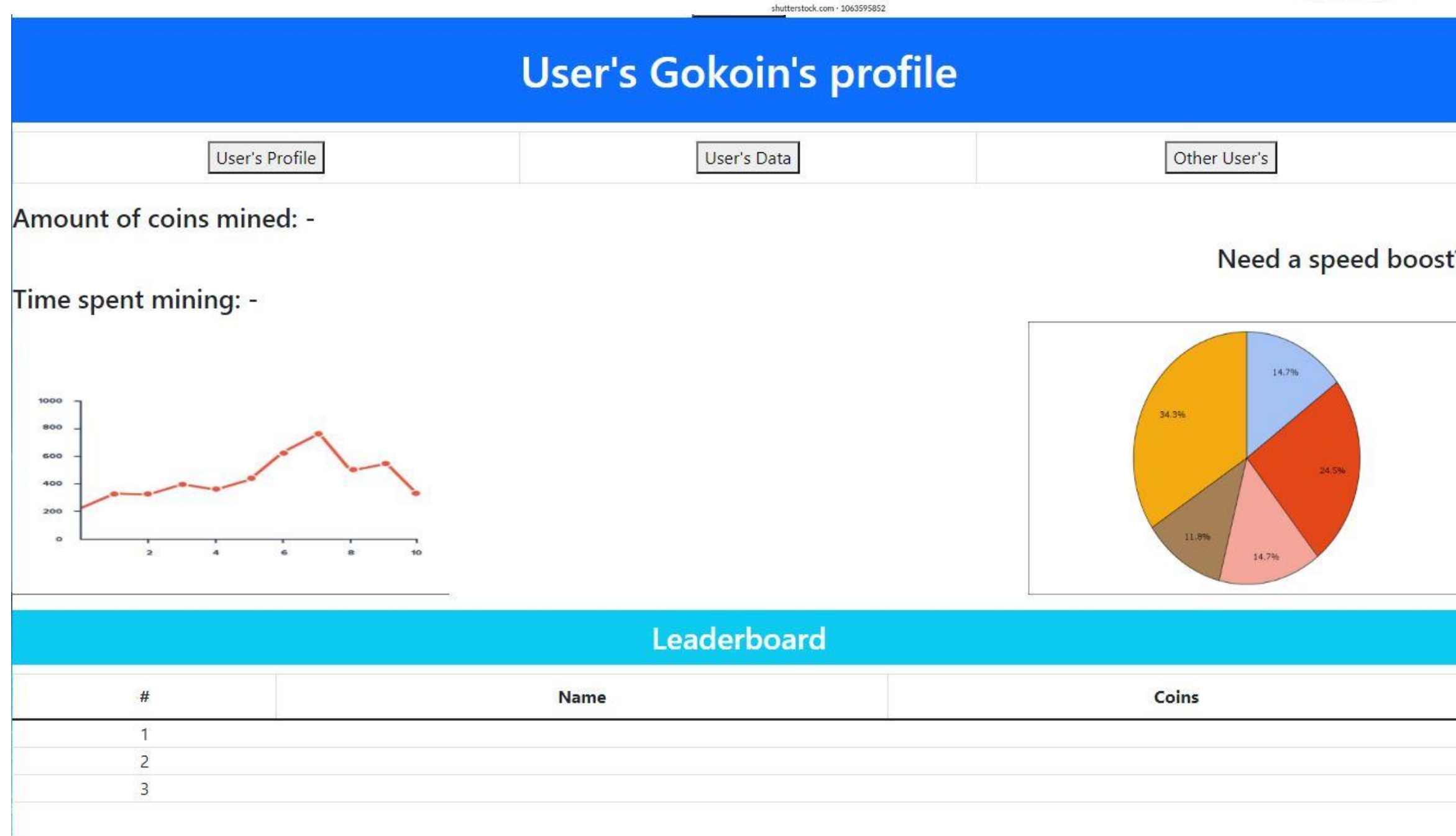


Current mining speed: ~4.0 hashes/second ([Tweet this!](#))

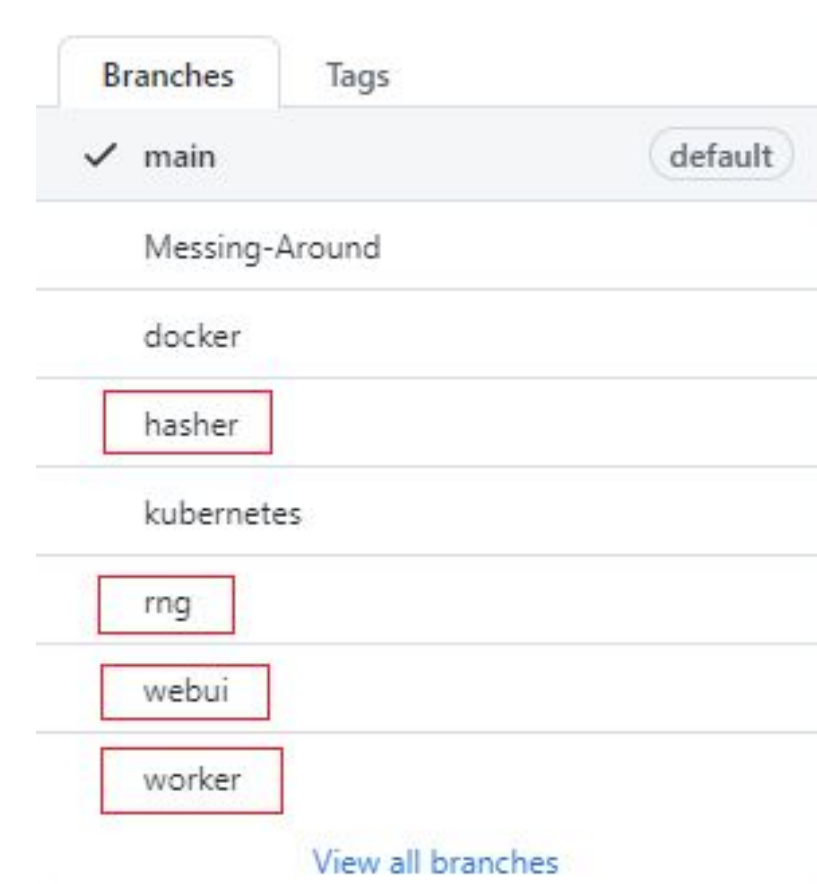
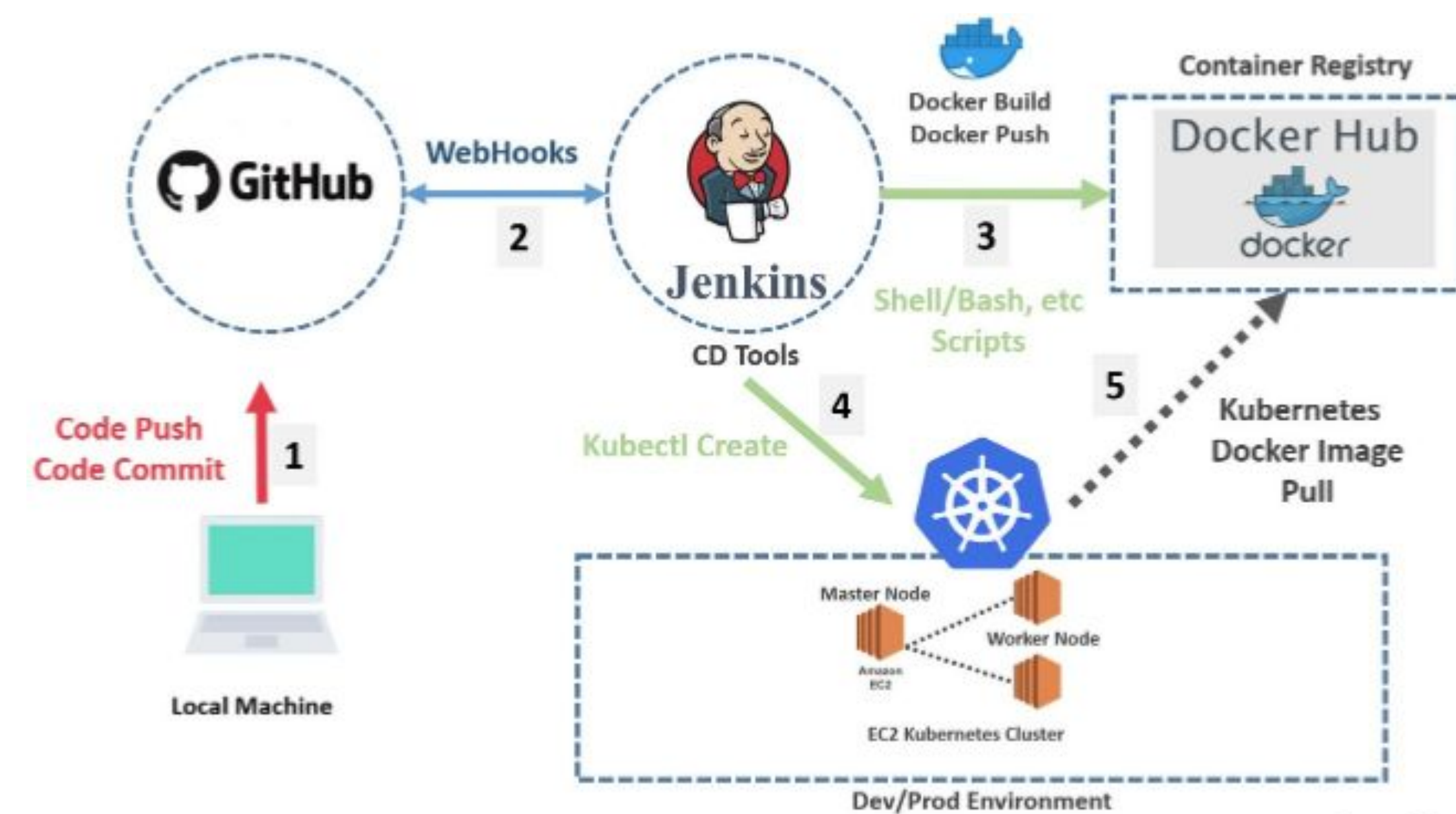
Using these



Into this...



The goal: an end-to-end automated CI/CD service



To make our future lives much, much easier, we broke down our Jenkins pipeline into 4 - one for each main piece of Gokoins

With a simplified shell script and example Jenkins pipeline ("hello") in hand, we started crafting our Jenkinsfiles and modifying our deployment and service.yml files