Having Cloud Native Fun with HonkCTL

The F in CNCF means FUN!

Jeffrey Sica

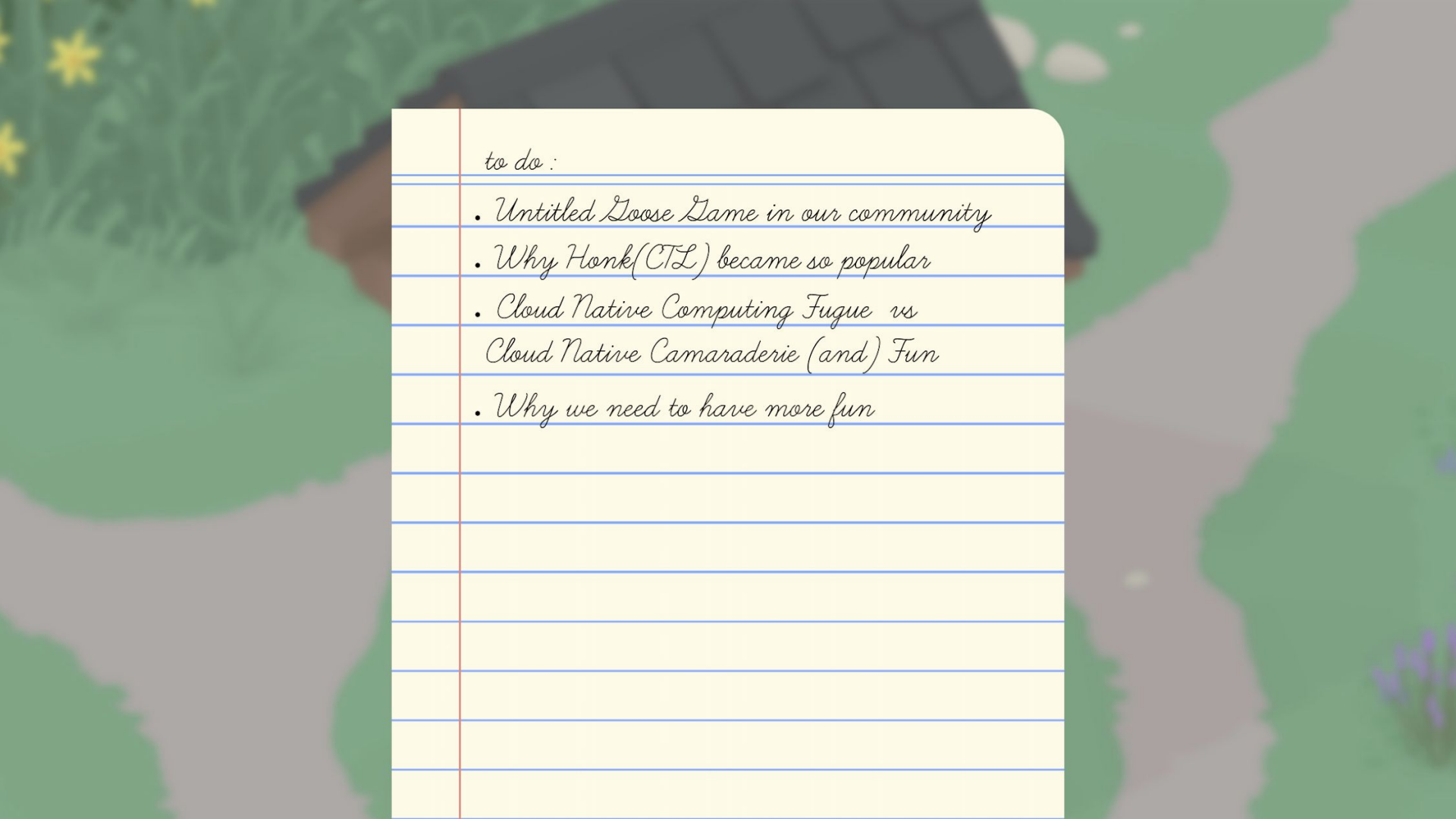
Senior SWE 

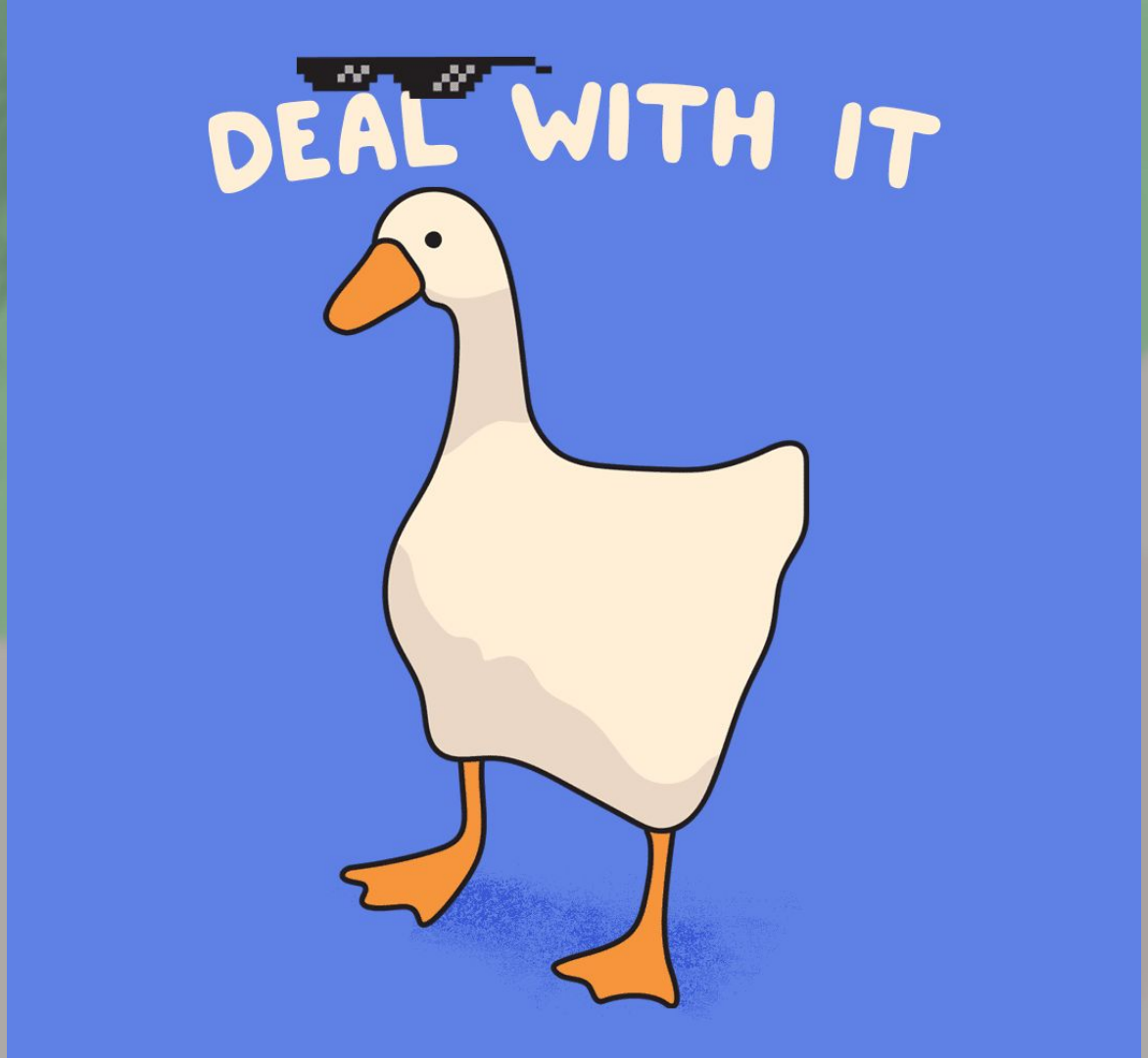
@jeefy on Twitter / GitHub

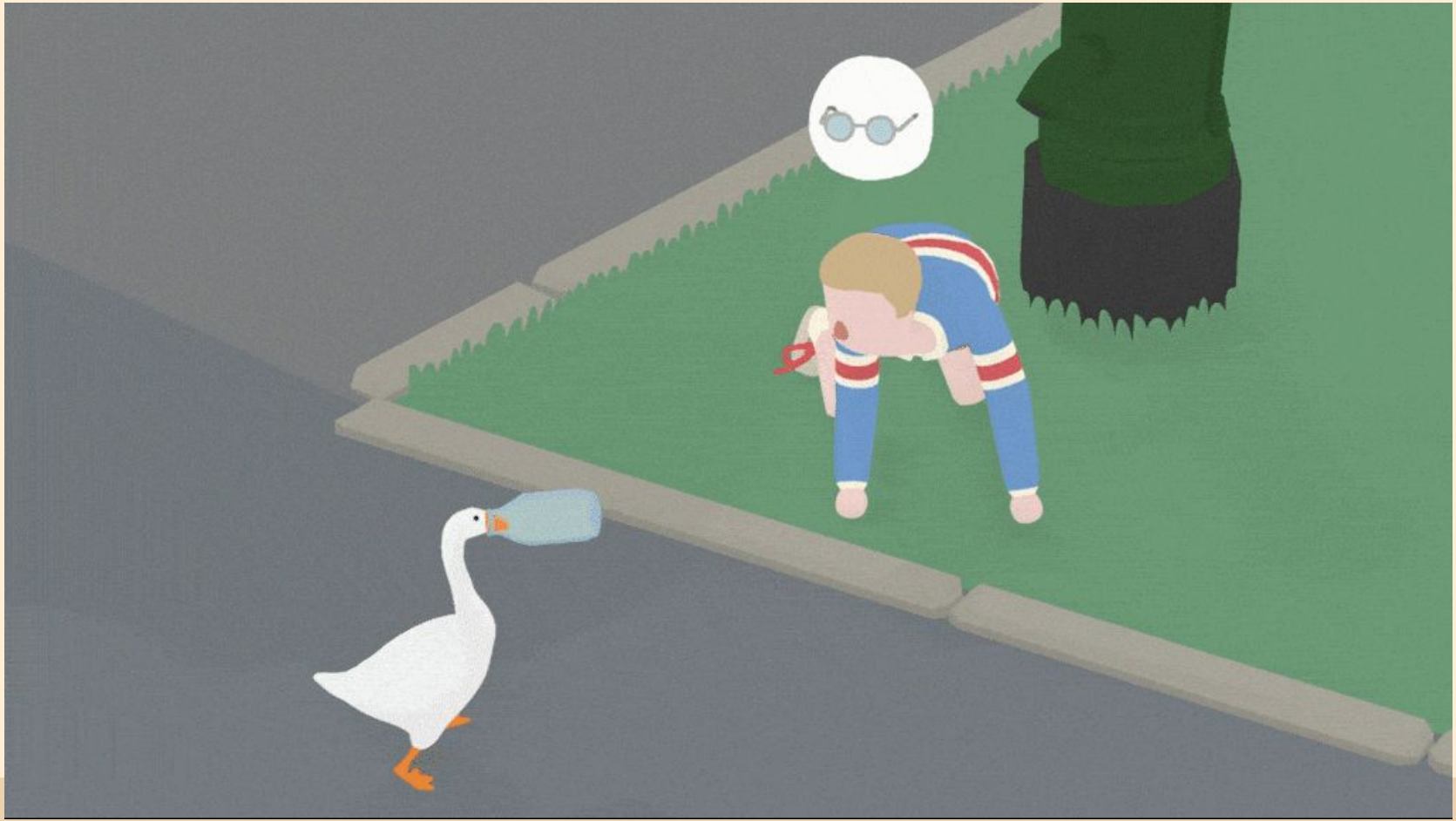
CNCF ~~Ambassador~~ Jester 

SIG-UI Chair, Slack Admin ET

Goose Enthusiast


to do :
. Untitled Goose Game in our community
. Why Honk(CTL) became so popular
. Cloud Native Computing Fugue vs
Cloud Native Camaraderie (and) Fun
. Why we need to have more fun


DEAL WITH IT



goose.game

goose.game

Convergent evolution is the process whereby organisms, not closely related, independently evolve similar traits as a result of having to adapt to similar environments or ecological niches.

Convergent meme-olution is the process whereby people, not closely related, independently create similar memes as a result of being **too awesome**.

(1994) Street Fighter

(1995) Mortal Kombat

2019 NA Kubernetes Contributor Summit

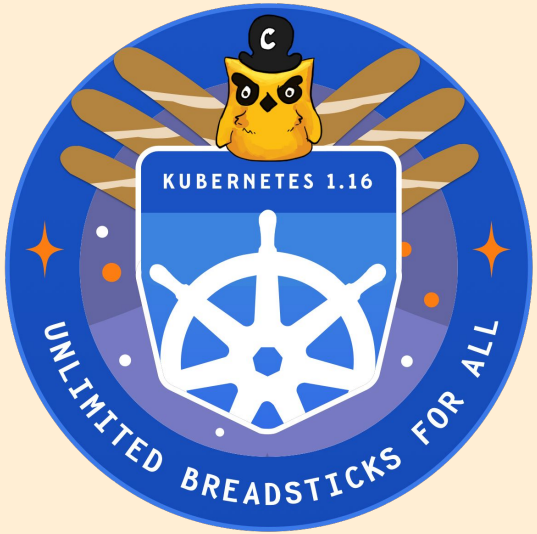
2019 NA KubeCon CloudNativeCon


HONK

People inherently want to have fun

People will find ways to have fun

Breadstick Powered Release Team



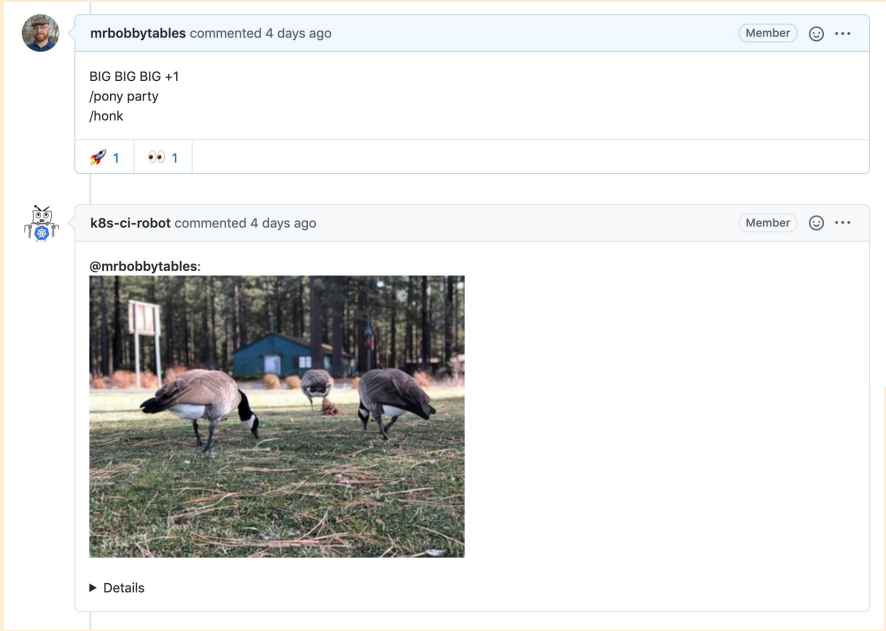
Breadstick Powered Release Team

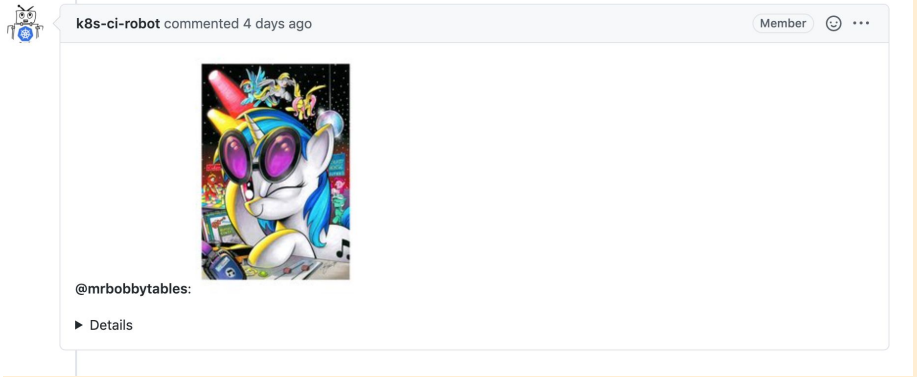
Cards Against ~~Humanity~~ Containers

Kube ~~Con~~ Khan

Nautical Swag

Fun with automation






```
/honk
/pony party
```


DOOM

????


DOOM

master 1 branch 3 tags Go to file Add file Code

storax Merge pull request #6 from AXDOOMER/master ... 7bbc9b2 on Jun 26 15 commits

assets	Add picture	13 months ago
dockerdoom/trunk	Fix buffer overflow in LoadDefaultCollection	3 months ago
manifest	Add -mode flag and update to 1.18.2	5 months ago
CHANGELOG.md	Add -mode flag and update to 1.18.2	5 months ago
Dockerfile	Update to Kubernetes 1.18	6 months ago
LICENSE	Add LICENSE	13 months ago
README.md	Add -mode flag and update to 1.18.2	5 months ago
kind-config.yaml	Add -mode flag and update to 1.18.2	5 months ago
kubedoom.go	Add -mode flag and update to 1.18.2	5 months ago

README.md

Kube DOOM

Kill Kubernetes pods using Id's Doom!

The next level of chaos engineering is here! Kill pods inside your Kubernetes cluster by shooting them in Doom!

About

Kill Kubernetes pods by playing Id's DOOM!

doom kubernetes kubectl go golang c kind docker dockerfile pods

Readme

GPL-3.0 License

Releases

3 tags

Packages

No packages published

Contributors 3

storax David Zuber

goshlanguage Ryan Hartje

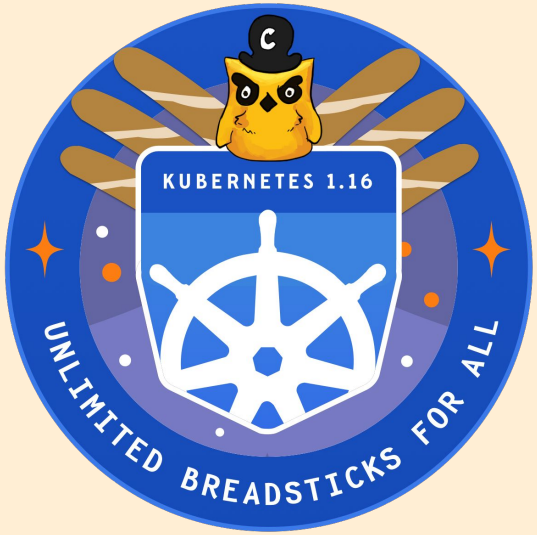
AXDOOMER Alexandre-Xavier Lab…

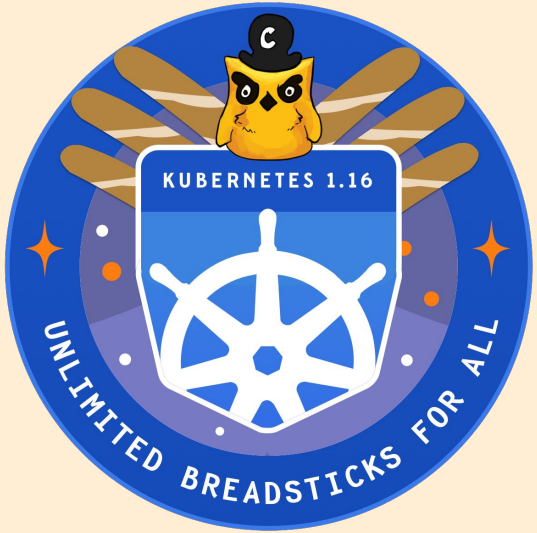

50
AMMO
100%
HEALTH
2 3 4
5 6 7
ARMS
0%
ARMOR
BULL 50 / 200
SHEL 0 / 50
ROKT 0 / 50
CELL 0 / 300

Fun benefits communities

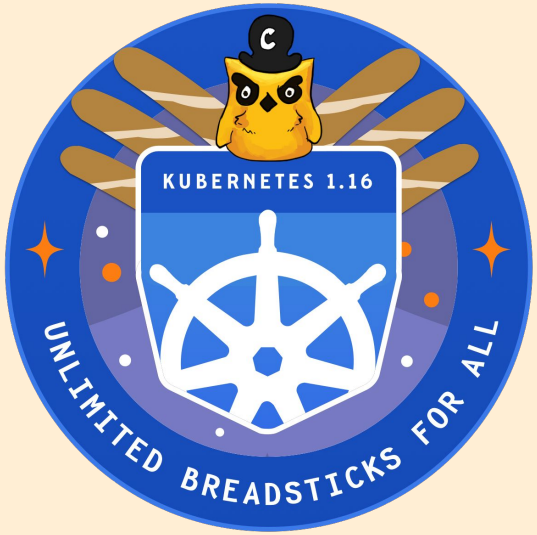

EXIT
EXIT
EXIT

Fun makes things more accessible


KUBERNETES 1.16
UNLIMITED BREADSTICKS FOR ALL


KUBERNETES 1.16
UNLIMITED BREADSTICKS FOR ALL


Taylor Dolezal @ 127.0.0.1
@onlydole
Thank you so much for my "Cards Against Containers" pack, @sysdig!!! I can't wait to play this with my team 😂
Cards Against Containers
A card game for DevOps people
sysdig
Dear boss, I need to go to KubeCon because I want to learn about ____.
Dumpster fires
PowerPoint
Unconditional management incompetence
5:38 PM · Jun 14, 2020 from Fuzzy Head Mountain · Twitter for iPhone



Taylor Dolezal @ 127.0.0.1
@onlydole

Thank you so much for my "Cards Against Containers" pack, @sysdig!!! I can't wait to play this with my team 😂

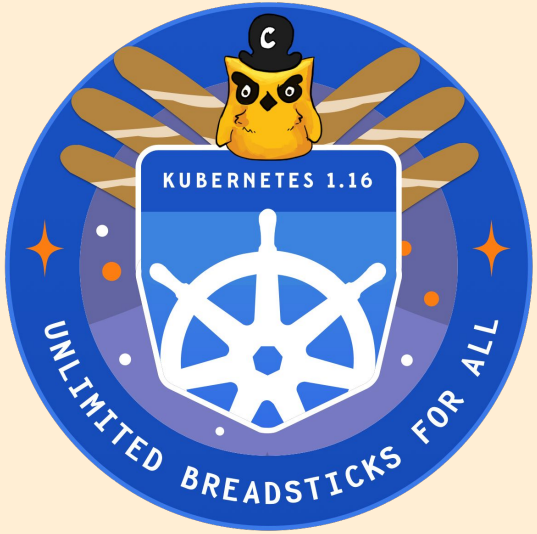
5:38 PM · Jun 14, 2020 from Fuzzy Head Mountain · Twitter for iPhone

Vallery Lancey
@vllry

Catch me tomorrow #KubeKhan!

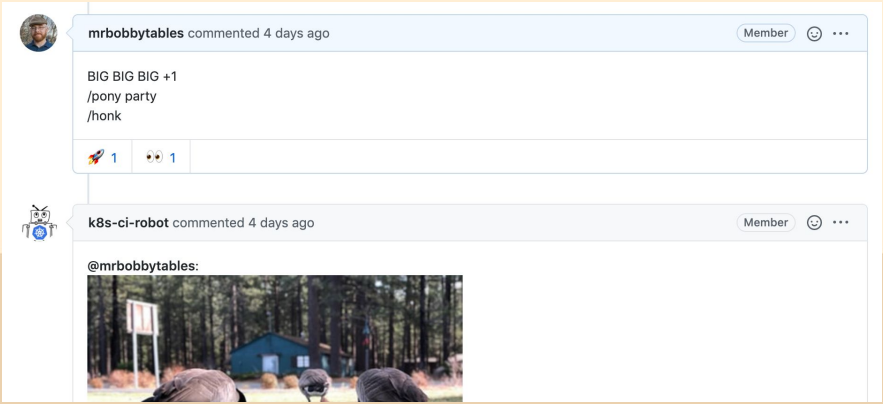
(And #KubeCon squares)

1:20 AM · Dec 12, 2018 · Twitter for iPhone


KUBERNETES 1.16
UNLIMITED BREADSTICKS FOR ALL


Taylor Dolezal @ 127.0.0.1
@onlydole
Thank you so much for my "Cards Against Containers" pack, @sysdig!!! I can't wait to play this with my team
Cards Against Containers
A card game for DevOps people
sysdig
Dear boss, I need to go to KubeCon because I want to learn about ____.
Dumpster fires
PowerPoint
Unconditional management incompetence
5:38 PM · Jun 14, 2020 from Fuzzy Head Mountain · Twitter for iPhone


Vallery Lancey
@vllry
Catch me tomorrow #KubeKhan!
(And #KubeCon squares)
Kube
Khan
1:20 AM · Dec 12, 2018 · Twitter for iPhone


mrbobbytables commented 4 days ago
Member
BIG BIG BIG +1
/pony party
/honk
1
1
k8s-ci-robot commented 4 days ago
Member
@mrbobbytables:


Honk.ci
Following
honkci
@honkci Follows you
The world is a bunch of CI dashboards, and you're just a flakey goose
github.com/honk-ci
honk.ci Joined November 2019


Black Lives Matter
@jeefy
Replying to @onlydole @IanColdwater and @CloudNativeFdn
Shoutout to me, for taking things too far.
honkci @honkci now
This isn't honkctl. This is just a tribute.
Jeffrey Sica @jeefy now
Welp.... /honkctl
7:08 PM · Dec 7, 2019 · TweetDeck

Alex Ellis @alexellisuk · Dec 8, 2019

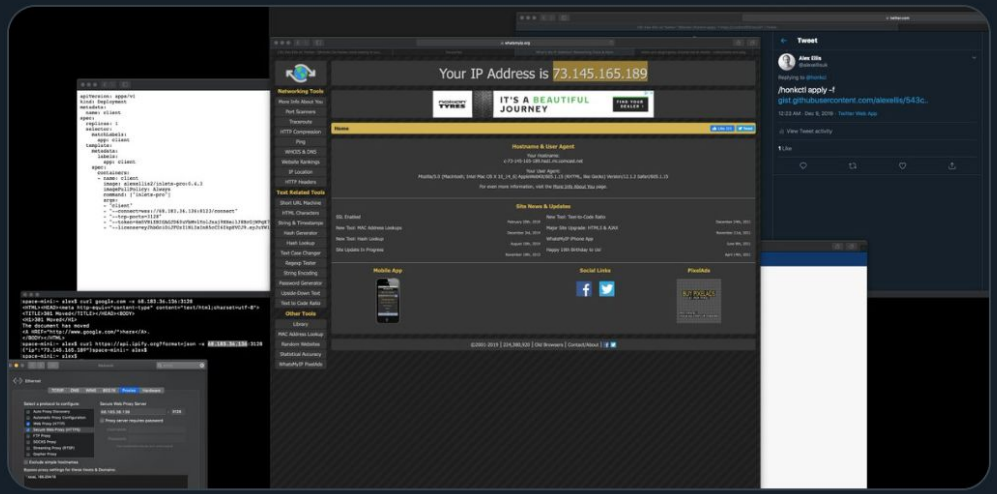
Replying to @honkci

/honkctl apply -f gist.githubusercontent.com/alexellis/543c...

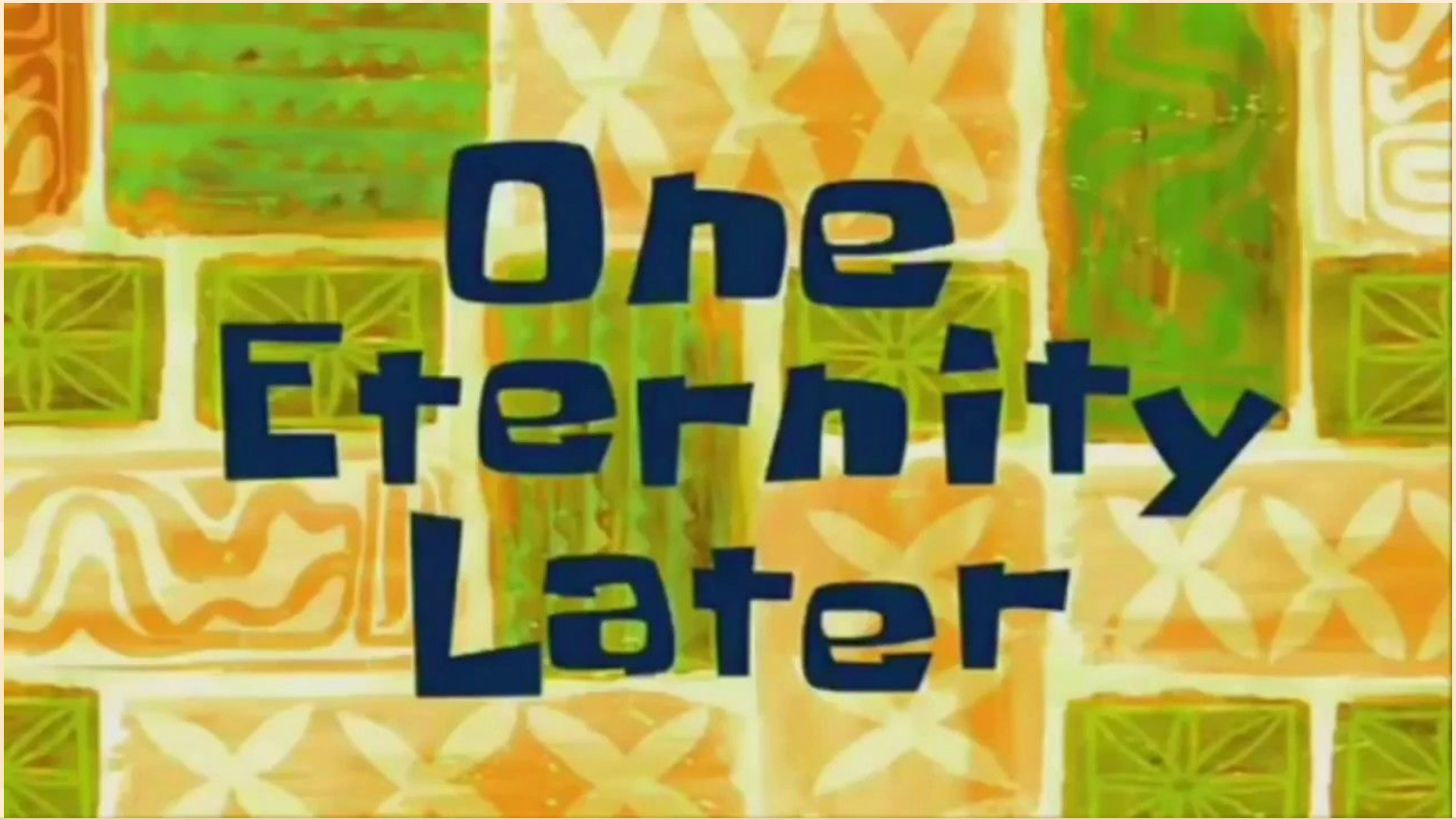
2 1

Alex Ellis @alexellisuk · Dec 8, 2019

How's the weather in Michigan?



2 2 2


One
Eternity
Later

honk-ci / honkctl

Code | Issues 3 | Pull requests | Actions | Projects | Wiki | Security | Insights

master | 1 branch | 0 tags | Go to file | Add file

mrbobbytables Merge pull request #13 from mrbobbytables/add-challenge ... 229d9b6 on Apr 2

challenges	Add 2020 - March challenge
LICENSE	Initial commit
README.md	Add 2020 - March challenge

README.md

/honkctl

When you want to be a goose and want a Kubernetes cluster for a garden.

This Repo

This will be where the previous challenge's challenge-specific data resides. In the future we will also post commands, output, and results.

https://github.com/honk-ci/honkctl

honkci
@honkci

First to solve the challenge was a dream team! @IanColdwater @bradgeesaman and @mauilion formed "SIG-Honk"!

Cheers to them. !honkctl will still stay on for the rest of the weekend for all you geese to enjoy and try to solve.

2:24 PM · Mar 21, 2020 · Twitter Web App

HonkCTL makes Kubernetes security accessible

Let's Honk (CTL)

Schedule Matches

Thursday, November 19

4:50pm EST — Having Cloud Native Fun with HonkCTL - Jeffrey Sica, Red Hat

Friday, November 20

1:25pm EST — Keynote: SIG-Honk AMA Panel: Hacking and Hardening in the Cloud Native Garden - Ian Coldwater, Independent; Duffie Cooley, Independent; Brad Geesaman, Co-Founder, Darkbit; & Rory McCune, Principal Consultant,

Next Challenge When?

Let’s think about another “game”

Among Us

Among Us

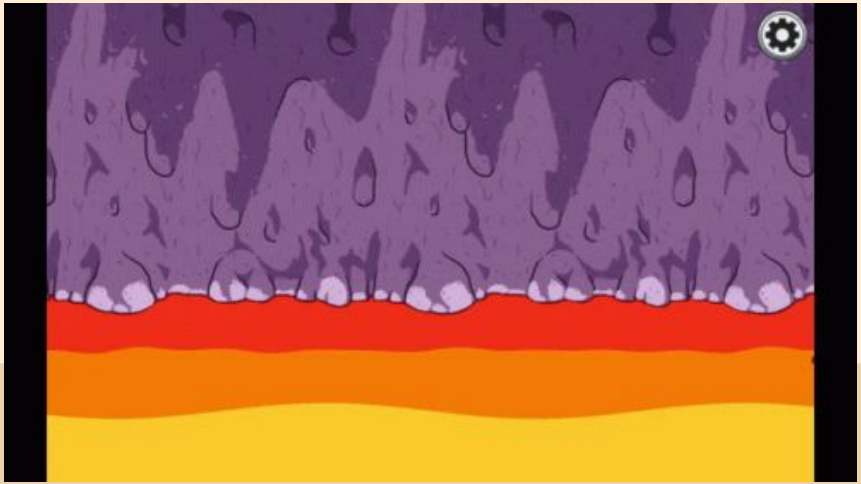

TOTAL TASKS COMPLETED
Office: Scan Boarding Pass
Dropship: Insert Keys
Node_IRO: Fix Weather Node (0/2)
O2: Fill Canisters
O2: Monitor Tree
Tasks
dark queen left the game
Ping: 50 ms
REPORT
USE

Among Us


TOTAL TASKS COMPLETED
Office: Scan Boarding Pass
Dropship: Insert Keys
Node_IRO: Fix Weather Node (0/2)
O2: Fill Canisters
O2: Monitor Tree
Tasks
dark queen left the game
Ping: 50 ms
REPORT
USE

Among Us


TOTAL TASKS COMPLETED
Ping: 50 ms
Office: Scan Boarding Pass
Dropship: Insert Keys
Node_IRO: Fix Weather Node (0/2)
O2: Fill Canisters
O2: Monitor Tree
Tasks
dark queen left the game
REPORT
USE



Search

Home
Getting started
Concepts
Tasks
Install Tools
Administer a Cluster
Configure Pods and Containers
Manage Kubernetes Objects
Managing Secrets
Inject Data Into Applications

Think about how your application reacts to disruptions

Decide how many instances can be down at the same time for a short period due to a voluntary disruption.

- Stateless frontends:
  - Concern: don't reduce serving capacity by more than 10%.
    - Solution: use PDB with minAvailable 90% for example.
- Single-instance Stateful Application:
  - Concern: do not terminate this application without talking to me.
    - Possible Solution 1: Do not use a PDB and tolerate occasional downtime.
    - Possible Solution 2: Set PDB with maxUnavailable=0. Have an understanding (outside of Kubernetes) that the cluster operator needs to consult you before termination. When the cluster operator contacts you, prepare for downtime, and then delete the PDB to indicate readiness for disruption. Recreate afterwards.
- Multiple-instance Stateful application such as Consul, ZooKeeper, or etcd:
  - Concern: Do not reduce number of instances below quorum, otherwise writes fail.

~~Among~~ Disrupt Us

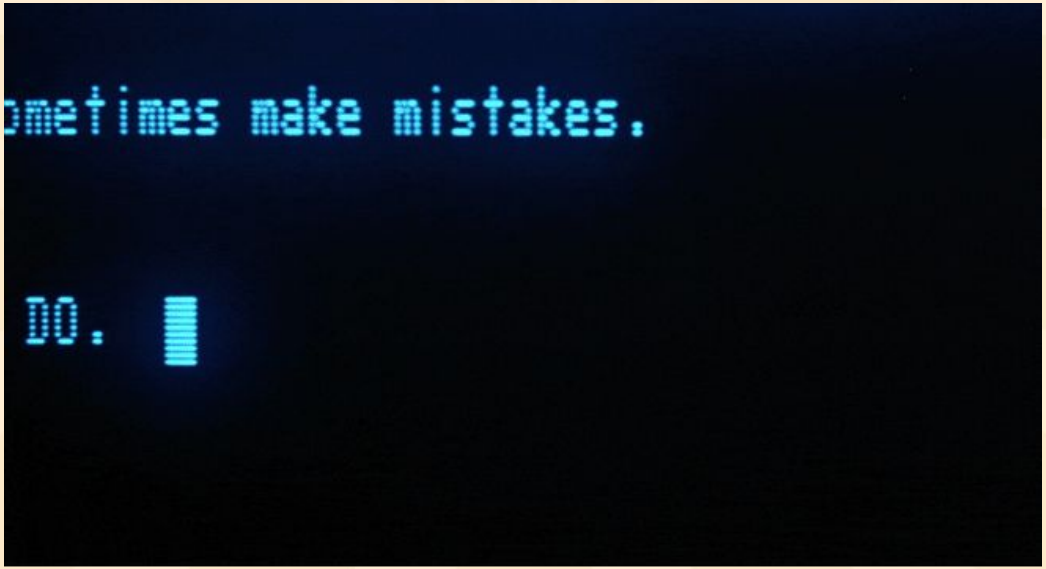
Cloud Native Computing is

Cloud Native Computing is

Fun


EXIT
EXIT
EXIT

What can we build together?



Fin

Thank you!