Kubectl superpowers

Benoit Petit - 05/02/2020

Qui sommes nous?

2.6 milliard de téléchargements

300 millions

d'utilisateurs actifs mensuels

plus d'**1 milliard** d'événements par heure

15 To et **des milliards** de requêtes par jour

Leader dans le secteur des jeux mobiles hyper casual

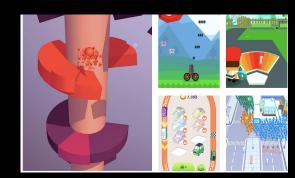
International:

Berlin, Barcelone, Amsterdam, UK à venir Montréal ...

200 salariés

3 BU Opérationnels :

- Growth & Engineering
- Apps
- Gaming



- Website : <u>www.voodoo.io</u>
- Pour postuler : jobs@voodoo.io
- Contact : <u>stephanie@voodoo.io</u>
- Meet up : Voodoo Talks

Voodoo's tech





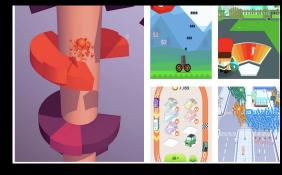




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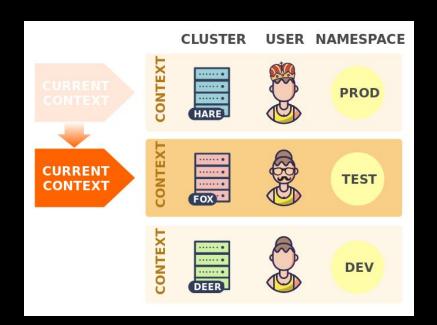




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- EKS
- sagemaker
- dynamoDB
- EMR
- Redshift
- ...

We need to upgrade cert-manager ... on all clusters



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What's the issue with kubectl (contexts) anyway?

→ kubectl config get-contexts --no-headers | wc -1

59

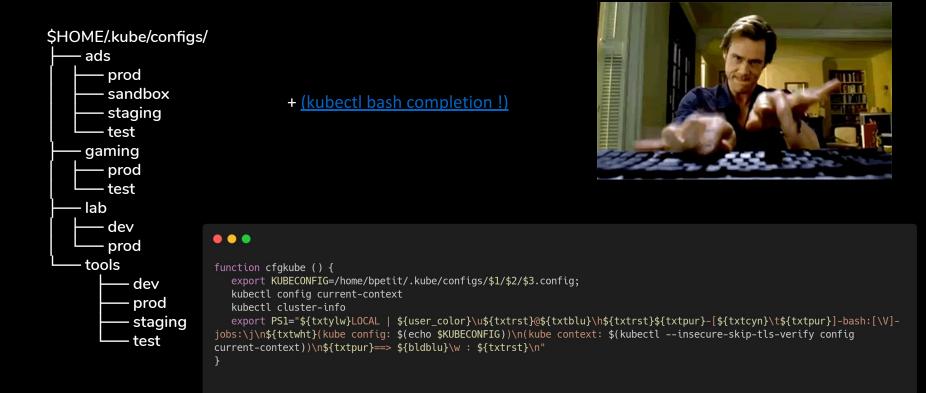
- → in many different environments/regions
- → gigantic kubeconfig file

(or you have to play w/ \$KUBECONFIG)

- how to classify?
- → how to avoid mistakes?



Solved it!...



... or did ! ?



VS.



Put this into __w_kwww.comfig

aptVersion: v1
kind; Config
clusters:
- name: "hube-airflow"
cluster:
server: "https://

wers:
- name: "hube-airflow"
contexts:
- name: "hube-airflow"
context:
seer:
cluster: "hube-airflow"
current-context: "hube-airflow"

Current-context: "hube-airflow"

Current-context: "hube-airflow"

Cropy to Clipboard

Then download (if needed) and run

www.current-context: "hube-airflow"

```
export AWS_PROFILE=my-profile-dev
aws eks --region eu-west-2 update-kubeconfig --name mycluster
```

+ AND it's not that clean neither...

How to cleanly add features to kubectl?

kubectl plugins!

1

- an executable file
- in your \$PATH
- named kubectl-myplugin

How to share/search/download plugins?

```
kubectl krew list
PLUGIN VERSION
ctx v0.7.1
krew v0.3.3
ns v0.7.1
```

kubectl krew search myplugin

kubectl krew install/update myplugin

Existing kubectl plugins

kubectl ns

Also known as "kubens", a utility to set your current namespace and switch between them.

kubectl ctx

Also known as "kubectx", a utility to switch between context entries in your kubeconfig file efficiently.

kubectl get-all

Like 'kubectl get all', but get _really_ all resources

kubectl who-can

Shows which users, groups and service accounts can perform a given verb on a given resource type.

What about the upgrades?

kubectl it run bu-gaming/staging/monitoring kubectl get po -l
app=django

```
kubectl it ls bu-gaming/staging [--show-type] [--show-profile]
```

Sources

https://learnk8s.io/blog/kubectl-productivity

 \leftarrow GOLD!



https://github.com/kubernetes-client

https://github.com/weibeld/kubernetes-client-go-examples

https://github.com/kubernetes-client/python/tree/master/examples

Thank you!