An efficient CLI to administrate a herd of kubernetes clusters

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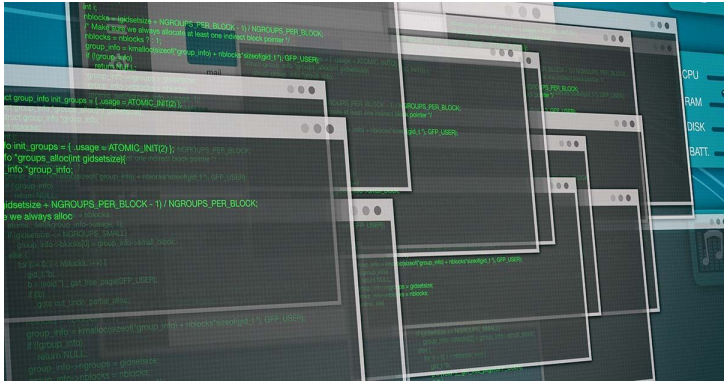
Pet vs Cattle: le herd grows fast!

Lots of different clusters, lots of opportunities to make stupid mistakes



With Linux and ZSH

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Add the kubernetes context in the ZSH prompt

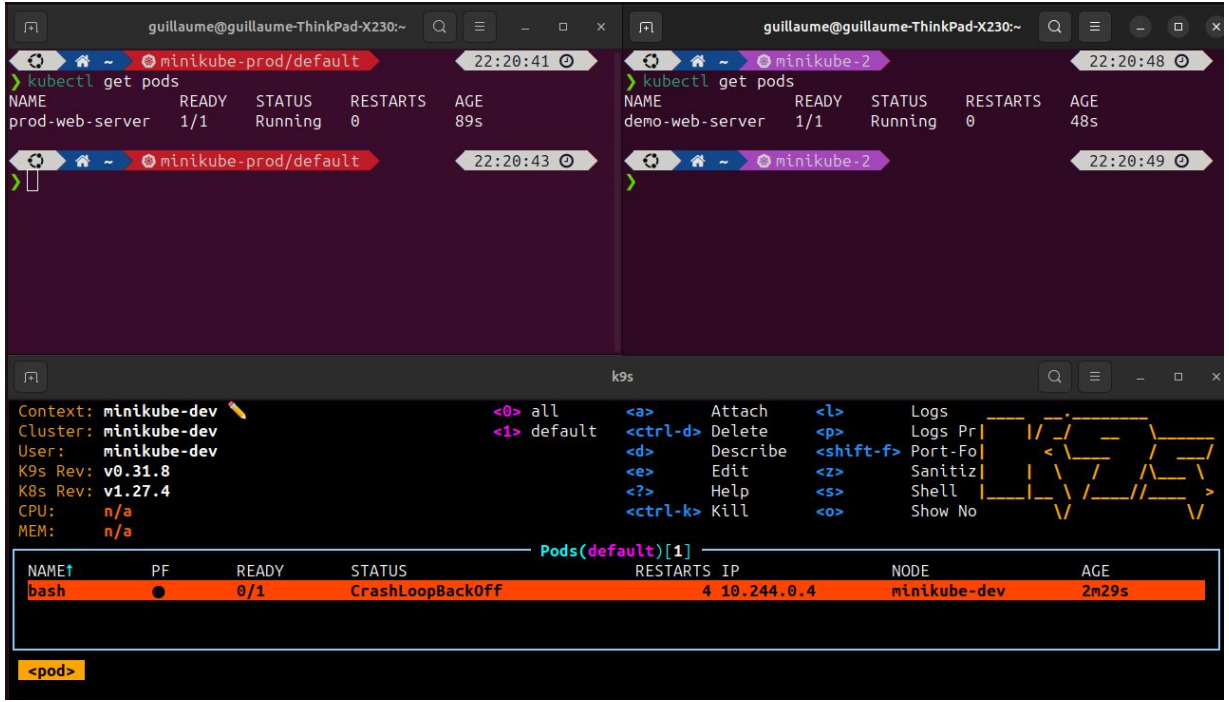
With the help of:

- Zsh
- Oh my Zsh
- les Nerd Fonts
- Powerlevel10k

To install them, see: https://github.com/Les-filles-et-les-garcons-de-la-tech/supercharge-your-cli-for-kubernetes/blob/main/Linux/README.md

Go further with Kubeswitch!

- Each terminal has its own context
- You can search iun several kubeconfig files
- Yo ucan get contexts directly from AKS, GKE, EKS, Rancher, Gardener



Avec MacOS et ZSH

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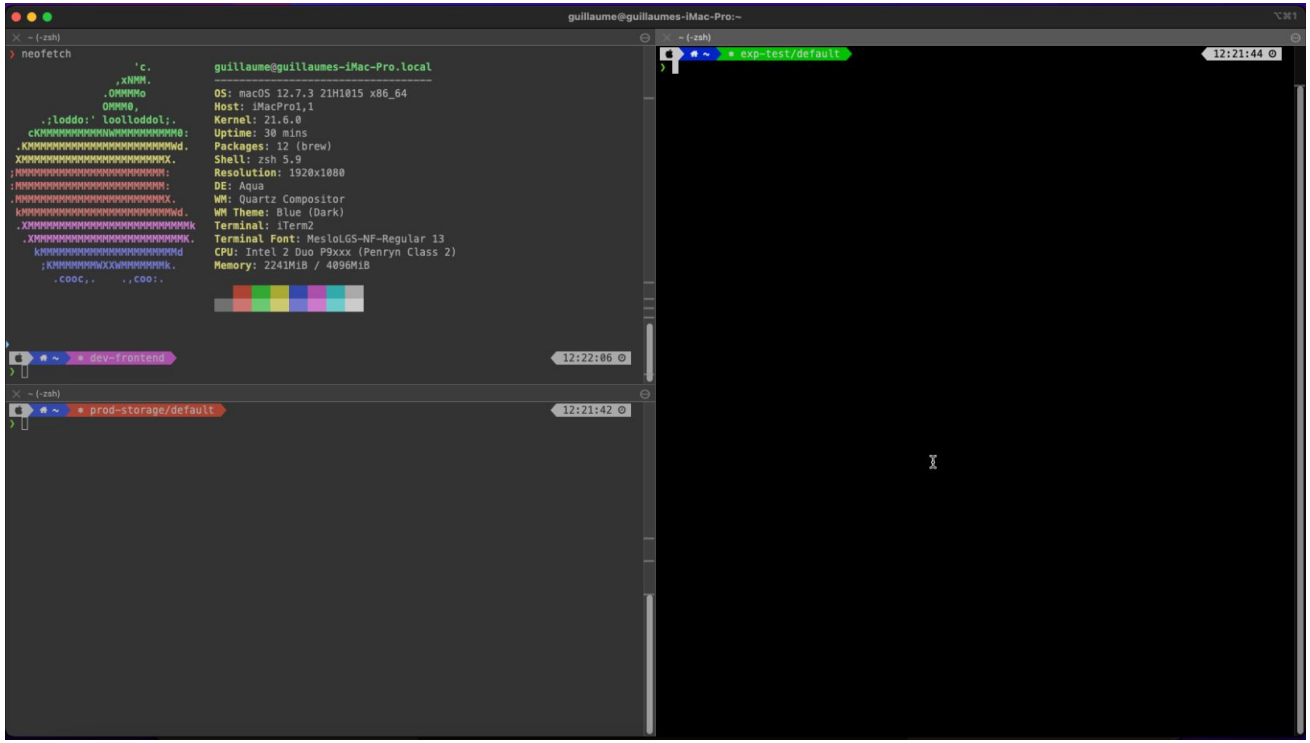
MacOS uses zsh too!

The tools and the configuration are very similar to Linux

- Zsh
- brew
- iTerm2
- Oh my Zsh
- les Nerd Fonts
- Powerlevel10k

To install them, see: https://github.com/Les-filles-et-les-garcons-de-la-tech/supercharge-your-cli-for-kubernetes/blob/main/Macos/README.md



And even on Windows with Powershell!

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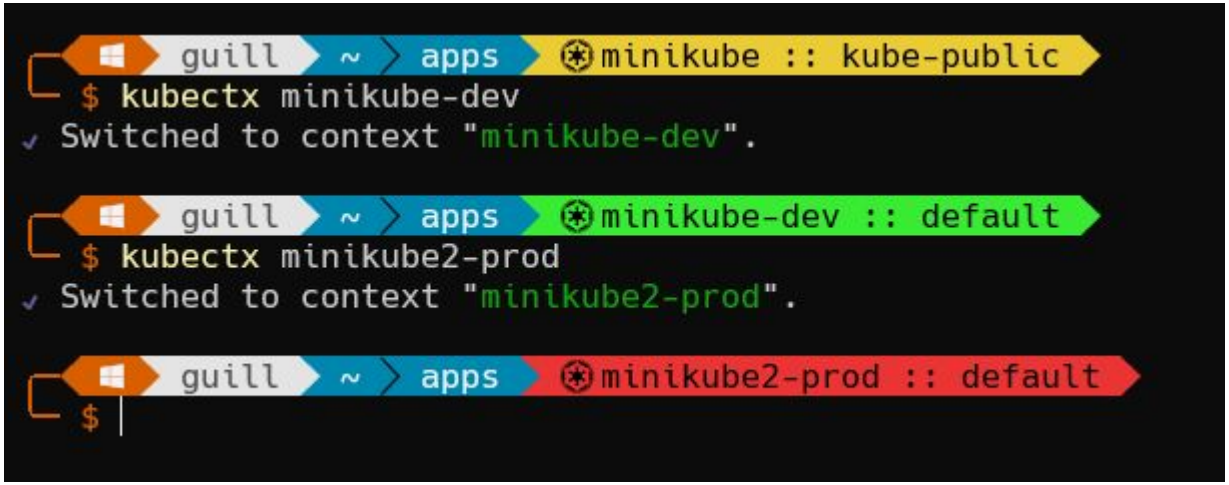
Add the kubernetes context in the Powershell prompt

With the help of:

- windows terminal
- Powershell 7
- Ho-My-Posh
- les Nerd Fonts
- And some customisations for Ho-My-Posh

To install them, see: https://github.com/Les-filles-et-les-garcons-de-la-tech/supercharge-your-cli-for-kubernetes/blob/main/windows/README.md



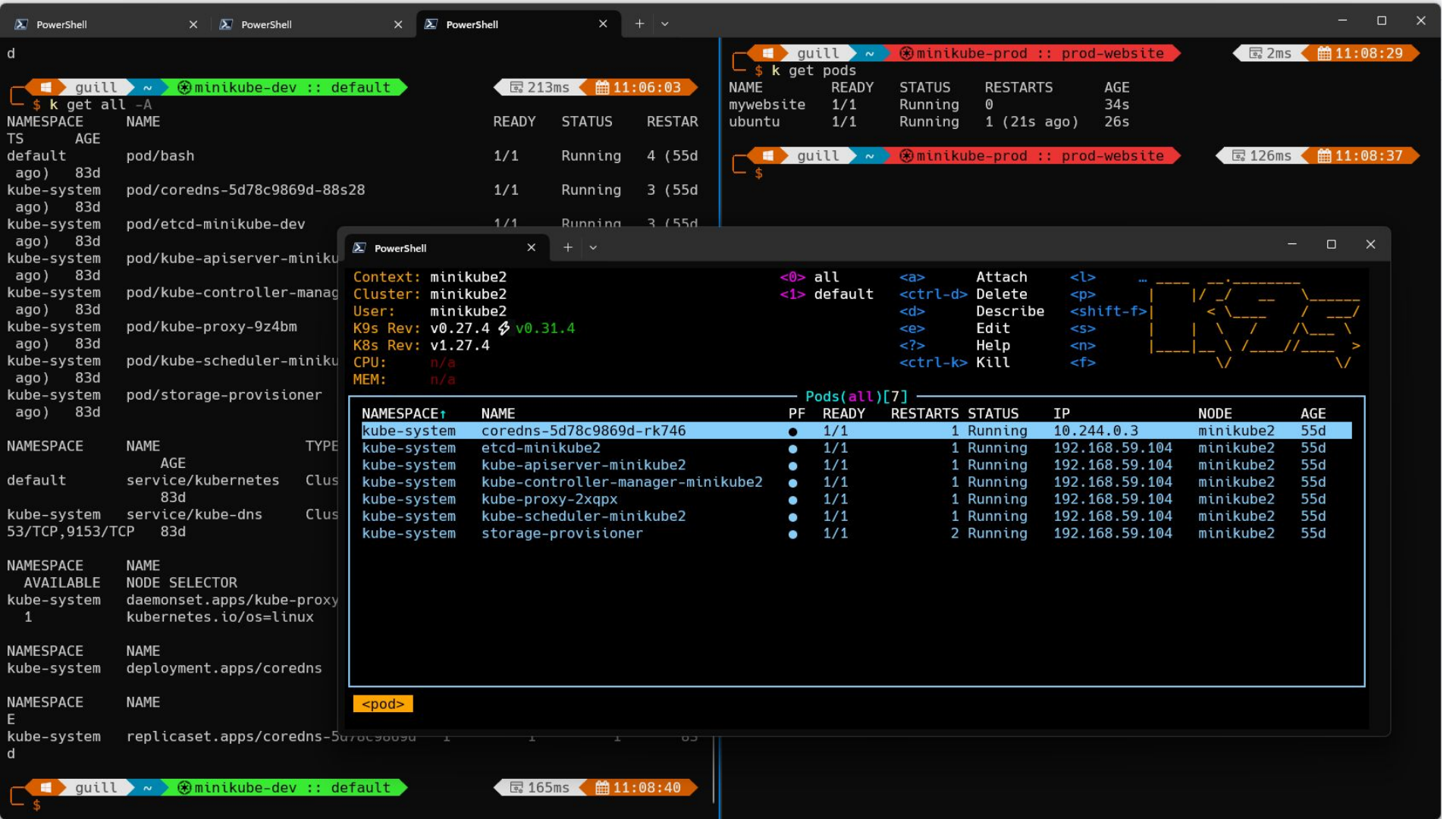
Go further with Kubeswitch

Problem

- The tool is not available for Windows!

Solution

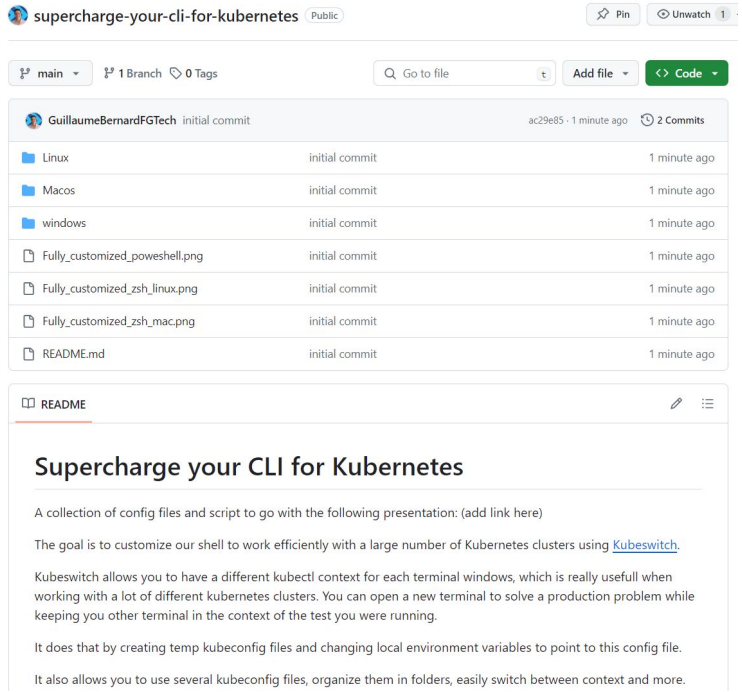
- The tool is written in Go, it’s easy to compile it for Windows
- We need to write the Powershell script that will replacethe bash/zsh one.
- We need to write the installation documentation
- Of course we need to test it
- And then create a Pull Request on the official repository to add the Windows version as an official version


PowerShell
PowerShell
PowerShell
d
guill ~ minikube-dev :: default 213ms 11:06:03
$ k get all -A
NAMESPACE NAME READY STATUS RESTARTS AGE
default pod/bash 1/1 Running 4 (55d ago) 83d
kube-system pod/coredns-5d78c9869d-88s28 1/1 Running 3 (55d ago) 83d
kube-system pod/etcd-minikube-dev 1/1 Running 3 (55d ago) 83d
kube-system pod/kube-apiserver-minikube 1/1 Running 3 (55d ago) 83d
kube-system pod/kube-controller-manager 1/1 Running 3 (55d ago) 83d
kube-system pod/kube-proxy-9z4bm 1/1 Running 3 (55d ago) 83d
kube-system pod/kube-scheduler-minikube 1/1 Running 3 (55d ago) 83d
kube-system pod/storage-provisioner 1/1 Running 6 (55d ago) 83d
NAMESPACE NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
default service/kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 83d
kube-system service/kube-dns ClusterIP 10.96.0.10 <none> 53/UDP,53/TCP,9153/TCP 83d
NAMESPACE NAME DESIRED CURRENT READY UP-TO-DATE AVAILABLE NODE SELECTOR AGE
kube-system daemonset.apps/kube-proxy 1 1 1 1 1 kubernetes.io/os=linux 83d
NAMESPACE NAME READY UP-TO-DATE AVAILABLE AGE
kube-system deployment.apps/coredns 1/1 1 1 83d
NAMESPACE NAME DESIRED CURRENT READY AGE
kube-system replicaset.apps/coredns-5d78c9869d 1 1 1 83d
guill ~ minikube-dev :: default 165ms 11:08:40
$
guill ~ minikube-prod :: prod-website 2ms 11:08:29
$ k get pods
NAME READY STATUS RESTARTS AGE
mywebsite 1/1 Running 0 34s
ubuntu 1/1 Running 1 (21s ago) 26s
guill ~ minikube-prod :: prod-website 126ms 11:08:37
$
PowerShell
Context: minikube2
Cluster: minikube2
User: minikube2
K9s Rev: v0.27.4 v0.31.4
K8s Rev: v1.27.4
CPU: n/a
MEM: n/a
<0> all
<1> default
<a> Attach
<ctrl-d> Delete
<d> Describe
<e> Edit
<?> Help
<ctrl-k> Kill
<l>
<p>
<shift-f>
<s>
<n>
<f>
Pods(all)[7]
NAMESPACE↑ NAME PF READY RESTARTS STATUS IP NODE AGE
kube-system coredns-5d78c9869d-rk746 1/1 1 Running 10.244.0.3 minikube2 55d
kube-system etcd-minikube2 1/1 1 Running 192.168.59.104 minikube2 55d
kube-system kube-apiserver-minikube2 1/1 1 Running 192.168.59.104 minikube2 55d
kube-system kube-controller-manager-minikube2 1/1 1 Running 192.168.59.104 minikube2 55d
kube-system kube-proxy-2xqpx 1/1 1 Running 192.168.59.104 minikube2 55d
kube-system kube-scheduler-minikube2 1/1 1 Running 192.168.59.104 minikube2 55d
kube-system storage-provisioner 1/1 2 Running 192.168.59.104 minikube2 55d
<pod>

Instructions completes disponibles sur notre Github!

https://github.com/Les-filles-et-les-garcons-de-la-tech/supercharge-your-cli-for-kubernetes

Issues and Pull Requests are welcome!



Do you have questions?

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