

// CODE ➡ CLUSTER: BOOSTING DEVELOPMENT WITH A LOCAL KUBERNETES OPS PLATFORM

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Slides



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Version: 202405231741-74da068



What is your profession?



Software Engineer / Developer



What is your profession?



Platform Engineer / Ops person

 Who uses Kubernetes for local development?

k3d Minkube Microk8s k3s KIND

Docker Desktop k0s Rancher

Desktop



Kelsey Hightower ✓

@kelseyhightower

Kubernetes is a platform for building platforms. It's a better place to start; not the endgame.

10:04 PM · Nov 27, 2017

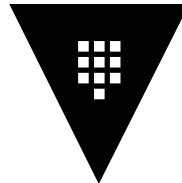
237 Reposts **44** Quotes **748** Likes **22** Bookmarks

 twitter.com/kelseyhightower/status/935252923721793536

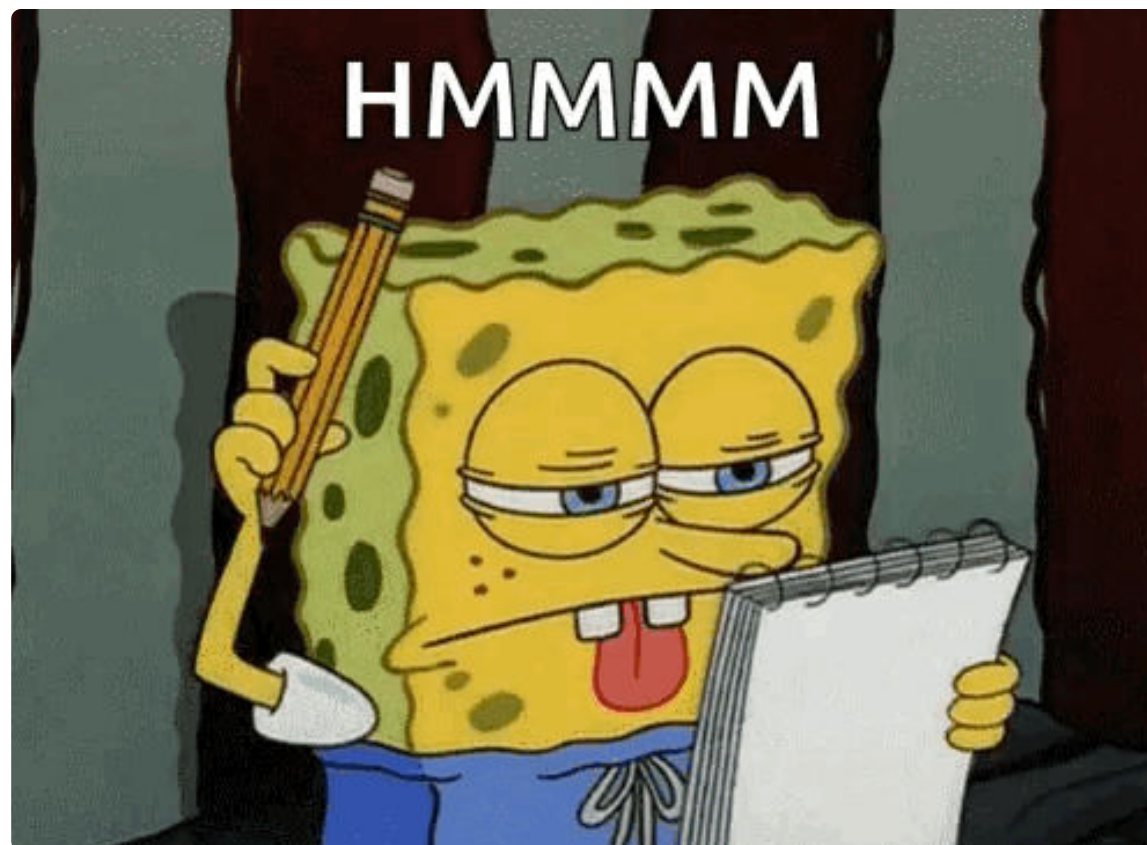
Start a k8s cluster in ~10s

```
k3d cluster create test
```

Now start the platform



NGINX...



Let's write a little script...



a98089f

/ scripts / apply.sh

↑ Top

Code

Blame

Raw

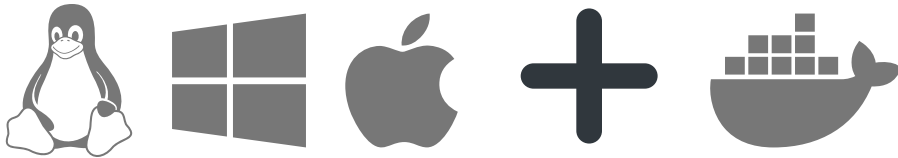


```
669 --metrics | --monitoring ) shift;; # Ignore, used in groovy only
670 --mailhog-url           ) shift 2;; # Ignore, used in groovy only
671 --vault                 ) shift 2;; # Ignore, used in groovy only
672 --petclinic-base-domain ) shift 2;; # Ignore, used in groovy only
673 --nginx-base-domain    ) shift 2;; # Ignore, used in groovy only
674 --destroy              ) DESTROY=true; shift;;
675 --config-file          ) shift;; # Ignore, used in groovy only
676 --config-map           ) shift;; # Ignore, used in groovy only
677 --output-config-file   ) OUTPUT_CONFIG_FILE=true; shift;;
678 --                     ) shift; break ;;
679 *) break ;;
680 esac
681 done
682 }
683
684 main "$@"
```



Wouldn't it be great to start the platform locally with one command?

Meet GOP



```
COMMIT='8e21bd4'
bash <(curl -s \
  "https://raw.githubusercontent.com/cloudogu/gitops-playground/$COMMIT/scripts/init-cluster.sh" \
  --bind-ingress-port=80 \
  && sleep 2 && docker run --rm -it --pull=always -u $(id -u) \
    -v ~/.config/k3d/kubeconfig-gitops-playground.yaml:/home/.kube/config \
    --net=host \
    ghcr.io/cloudogu/gitops-playground:$COMMIT --yes --argocd --base-url=http://local.gd
# Other interesting options --monitoring --vault=dev
```