MBA USP ESALQ

Monitoramento e observabilidade de aplicações de instituições financeiras

Victor Luiz Domingues[1]; Alexander Chávez López[2]

Infraestrutura

Cluster Kubernetes

Instalar home brew

```
/bin/bash -c "$(curl -fsSL
https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

Instalar kubectl

```
brew install kubectl
```

no meu caso MacOS

```
brew install
```

Instalar kind

```
brew install kind
```

criar cluster

```
kind create cluster --config=app/infra/01-cluster.yaml --name=esalq-
cluster
```

Subir cluster

Créditos: https://github.com/badtuxx/DescomplicandoArgoCD/blob/main/pt/src/day
-1/README.md#descomplicando-argocd---day-1

Criar namespace

```
kubectl create namespace argocd
```

Instalar o argo

```
kubectl apply -n argocd -f
https://raw.githubusercontent.com/argoproj/argo-
cd/stable/manifests/install.yaml
```

Instalar agorcd CLI

```
brew install argocd
```

Autenticar argocd

```
kubectl get svc -n argocd
```

Fazer port forward

```
kubectl port-forward svc/argocd-server -n argocd 8000:443
```

Login no argocd

```
kubectl get secret argocd-initial-admin-secret -n argocd -o
jsonpath="{.data.password}" | base64 -d`
argocd login localhost:8000
```

Adicionar repositorio

```
argocd repo add https://github.com/victorldomingues/mba-esalq-tcc.git -
-name mba-esalq-tcc  --username not-used --password [TOKEN]
```

Informações do contexto

```
kubectl config current-context
argocd cluster add kind-esalq-cluster  --in-cluster
```

Como subir Apps via Argo CD

Subir todos de uma vez:

```
app/infra/apps-argocd.sh
```

DATADOG

Instalação Agent

https://docs.datadoghq.com/containers/kubernetes/installation/?tab=datadogoperator

Instalação do Helm

```
brew install helm
```
Instalação

1. Instalar helm

2. Datadog Operator

```
helm repo add datadog https://helm.datadoghq.com
helm install datadog-operator datadog/datadog-operator
kubectl create secret generic datadog-secret --from-literal api-
key=<DATADOG_API_KEY>
```

3. Configurar Agent
4. Deploy Agent

```
argocd app create datadog --repo
https://github.com/victorldomingues/mba-esalq-tcc.git --path
app/infra/datadog --dest-server https://kubernetes.default.svc --dest-
namespace default
```

Instrumentar monitoramento banco

https://docs.datadoghq.com/database_monitoring/setup_postgres/selfhosted/?tab=kubernetes