

Course Introduction



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Be organized with archives !

Use package managers

**Kubernetes applications contain many
Kubernetes objects**

Simplify your life with Helm



Helm ?



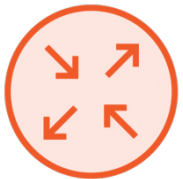
What is Helm ?

How does Helm work ?



What is a Helm chart ?

How do you define dependencies ?



What is a Helm repository ?

How do you install applications with Helm ?



Course Overview



Discovering Helm

Building Helm charts

Customizing charts with Helm templates

Managing charts dependencies

Using existing charts from repositories



Learn & Practice



Learn the theory!



Practice with 11 Labs!



Demo



Installing Kubernetes with Helm

Building an Helm Chart

- Umbrella Chart

Installing a Release

Customizing Helm Templates

Managing dependencies

Packaging and working with repositories



Sample Application : Guestbook for Events

The screenshot shows a web browser window with the address bar displaying 'dev.frontend.minikube.local/'. The page title is 'Guestbook : "MyPopRock Festival 2.0"'. The left sidebar features the 'LOBOMANTICS' logo. The main content area includes a 'Filter' input field, a table of guestbook entries, and a feedback form.

Name	Message
John	Very nice show !!

Items per page: 5 1 - 1 of 1

Leave your feedback !

Your name *
Jane

Your questbook message
Congrats to Globomantics DevOps !

Leave message

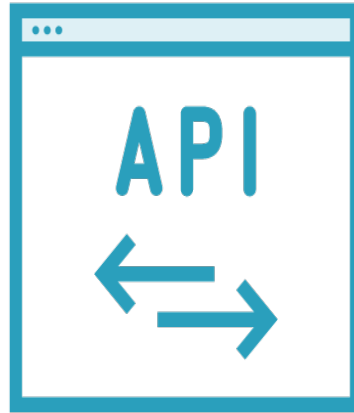


GuestBook for Events Application



Frontend

- ✓ ConfigMap
- ✓ Pod
- ✓ Service
- ✓ Ingress



Backend API

- ✓ Secret
- ✓ Pod
- ✓ Service



Database

- ✓ Secret
- ✓ PV
- ✓ PVC
- ✓ Pod
- ✓ Service



Source Code for Labs

<https://github.com/phcollignon/helm3>

Code Issues 0 Pull requests 0 Projects 0

Helm course

1 commit

Branch: master New pull request

Philippe-Collignon initial commit

lab10_helm_dependencies_begin

lab10_helm_dependencies_child-parent

lab10_helm_dependencies_exports

lab10_helm_dependencies_final

lab11_helm_repository_begin

lab11_helm_repository_final

lab1_kubectrl_version1

lab2_kubectrl_version2

lab10_helm_dependencies_exp

lab10_helm_dependencies_final

lab11_helm_repository_begin

lab11_helm_repository_final

lab1_kubectrl_version1

lab2_kubectrl_version2

1 contributor

Find File Clone or download

Latest commit fbfd86c 3 minutes ago

lab10_helm_dependencies_begin	initial commit	3 minutes ago
lab10_helm_dependencies_child-parent	initial commit	3 minutes ago
lab10_helm_dependencies_exports	initial commit	3 minutes ago
lab10_helm_dependencies_final	initial commit	3 minutes ago
lab11_helm_repository_begin	initial commit	3 minutes ago
lab11_helm_repository_final	initial commit	3 minutes ago
lab1_kubectrl_version1	initial commit	3 minutes ago
lab2_kubectrl_version2	initial commit	3 minutes ago



Prerequisites



Kubernetes concepts

No required programming

Unix shell



Goal for Attendees



Understand Helm concepts

Build and customize a Chart

Use Helm to install and manage Kubernetes application versions



Helm 3 Course !



This course is about Helm 3 !

Helm 2 architecture is different

Helm 2 command line and Chart structure might differ

Helm 2 charts are compatible with Helm 3 ...

