

Helm: Praxiskurs Kubernetes-Paketmanagement (XAM-HELM-1)

ID XAM-HELM-1 Prix CHF 1 300,- (Hors Taxe) Durée 3 jours

A qui s'adresse cette formation

The training is aimed at developers and administrators as well as architects and decision-makers with a high level of technical interest.

Pré-requis

Participants must be familiar with the use of Kubernetes. This includes the proficient use of kubectl and creating YAML manifests for Kubernetes resources. Knowledge of basic programming principles, especially the use of variables, conditions and loops, is required.

Objectifs

The participants learn how to use Helm. This includes installing, configuring, updating and managing applications through existing Helm Charts. Furthermore, this training covers the development of custom Helm Charts, including templates, hooks, tests, dependencies, as well as documentation, packaging and publishing of the resulting Charts.

Contenu

Introduction to Helm

- · Motivation and features
- Architecture
- Interaction between Helm and Kubernetes
- · Helm and CI/CD

Summarizing (!) recap of important Kubernetes resource types

- Pod, ReplicaSet, Deployment, DaemonSet, StatefulSet, Job and CronJob
- PersistentVolumeClaim
- Service and Ingress
- ConfigMap and Secret

Use of existing Helm Charts

- Repository configuration
- Searching and finding Helm charts
- Examining Helm Charts
- Installation, upgrades, rollbacks, and uninstallation of releases
- Adjusting values

Development of custom Helm Charts

- Helm Chart structure
- Creating new Helm Charts
- Debugging Helm Charts
- · Dependencies and variable passing
- · Hooks and tests

Helm templates

- Helm template syntax
- Variables and scopes
- Loops and conditions
- Functions and pipelines
- Named templates
- Libraries

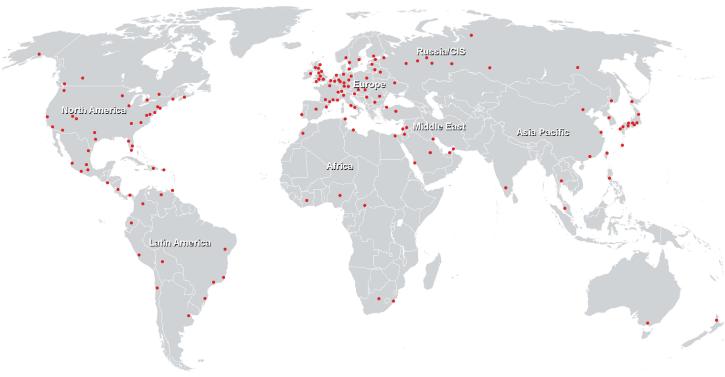
Documentation

- Documentation within Helm Charts
- · Generate documentation with helm-docs

Delivery of Helm Charts

- · Packaging Helm Charts
- · Operation of repositories

Best practices



Centres de formation dans le monde entier



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