WUNN

Enterprise Computing Solutions - Education Services

TRAINING OFFERING

Skontaktuj się z nami

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Kod:	Czas trwania:	Cena netto:
VMW_KFCO	32 Hours (4 days)	zł7,400.00

Description

This four-day course is the first step in learning about Containers and Kubernetes Fundamentals and Cluster Operations. Through a series of lectures and lab exercises, the fundamental concepts of containers and Kubernetes are presented and put to practice by containerizing and deploying a two-tier application into Kubernetes.

Cel szkolenia

By the end of the course, you should be able to meet the following objectives:

- · Build, test, and publish Docker container images
- · Become familiar with YAML files that define Kubernetes objects
- Understand Kubernetes core user-facing concepts, including pods, services, and deployments
- · Use kubectl, the Kubernetes CLI, and become familiar with its commands and options
- Understand the architecture of Kubernetes (Control plane and its components, worker nodes, and kubelet)
- · Learn how to troubleshoot issues with deployments on Kubernetes
- · Apply resource requests, limits, and probes to deployments
- · Manage dynamic application configuration using ConfigMaps and Secrets
- Deploy other workloads, including DaemonSets, Jobs, and CronJobs
- · Learn about user-facing security using SecurityContext, RBAC, and NetworkPolicies

Uczestnicy

Anyone who is preparing to build and run Kubernetes clusters

Wymagania wstępne

- · Linux concepts and command line proficiency
- General networking proficiency

Program szkolenia

2. Containers:

- · What and Why containers
- · Building images
- Running containers
- Introductions and objectives
 Registry and image management
 Kubectl CLI

5. Kubernetes Networking:

- Networking within a pod
- Pod-to-Pod Networking

1. Course Introduction:

- · Services to Pods
- ClusterIP, NodePort, and LoadBalancer
 Persistent volumes claims
- Ingress controllers
- Service Discovery via DNS
- 6. Stateful Applications in Kubernetes:
- Stateless versus Stateful
- Volumes
- StorageClasses
- StatefulSets

4. Beyond Kubernetes Basics:

- Kubernetes objects
- YAMI
- · Pods, replicas, and deployments
- 3. Kubernetes Overview: Services
 - Deployment management
 - Rolling updates
 - Controlling deployments
 - · Pod and container configurations

7. Additional Kubernetes Considerations:

- Dynamic configuration
- ConfigMaps
- Secrets

Kubernetes project

Building Kubernetes

Plugin interfaces

Jobs, CronJobs

9. Logging and Monitoring:

• Logging for various objects

Monitoring architecture

Monitoring solutions

- Sidecar logging Node logging
- Network policy
- Applying a NetworkPolicy
 Audit logging
- SecurityContext

8. Security:

- Security contents
 runAsUser/Group
- Service accounts
- Octant Role-based access control • VMware vRealize® Operations Manager™ • VMware Tanzu™ portfolio overview

Terminy

Na żądanie. Prosimy o kontakt

Dodatkowe informacje

Jeśli interesują Cię inne szkolenia tego producenta - skontaktuj się z nami.

10. Cluster Operations:

- Onboarding new applications
- Backups
- Upgrading
- Drain and cordon commands
- Impact of an upgrade to running applications
- Troubleshooting commands