



Enterprise Computing Solutions - Education Services

## NABÍDKA ŠKOLENÍ

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**Prosím kontaktujte nás zde**

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**Kód:** VMW\_KFCO    **DÉLKA:** 32 Hours (4 DENNÍ)    **CENA:** Kč bez DPH 40,000.00

## Description

Cena kurzu je 1 510 EUR a bude přepočtena aktuálním kurzem poslední den školení.

Tento čtyřdenní kurz je prvním krokem při poznávání Containers a Kubernetes Fundamentals a Cluster Operations. Prostřednictvím série přednášek a cvičení v labech jsou představeny základní koncepty kontejnerů a Kubernetes a uvedeny do praxe kontejnerizací a nasazením dvouvrstvé aplikace do Kubernetes.

## Cíle

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

## Určeno pro

Anyone who is preparing to build and run Kubernetes clusters

## Vstupní znalosti

- Linux concepts and command line proficiency
- General networking proficiency

## Program

1 Course Introduction	2 Containers <ul style="list-style-type: none"><li>• What and Why containers</li><li>• Building images</li><li>• Running containers</li></ul>	3 Kubernetes Overview <ul style="list-style-type: none"><li>• Kubernetes project</li><li>• Plugin interfaces</li><li>• Building Kubernetes</li></ul>	4 Beyond Kubernetes Basics <ul style="list-style-type: none"><li>• Kubernetes objects</li><li>• YAML</li><li>• Pods, replicas, and deployments</li></ul>
	• Registry and image management	• Kubectl CLI	• Services <ul style="list-style-type: none"><li>• Deployment management</li><li>• Rolling updates</li><li>• Controlling deployments</li></ul> <ul style="list-style-type: none"><li>• Pod and container configurations</li></ul>
5 Kubernetes Networking	6 Stateful Applications in Kubernetes <ul style="list-style-type: none"><li>• Stateless versus Stateful</li><li>• Volumes</li><li>• Persistent volumes claims</li><li>• StorageClasses</li><li>• StatefulSets</li></ul>	7 Additional Kubernetes Considerations <ul style="list-style-type: none"><li>• Dynamic configuration</li><li>• ConfigMaps</li><li>• Secrets</li><li>• Jobs, CronJobs</li></ul>	
• Networking within a pod			
• Pod-to-Pod Networking			
• Services to Pods			
• ClusterIP, NodePort, and LoadBalancer			
• Ingress controllers			
• Service Discovery via DNS			

8 Security	9 Logging and Monitoring	10 Cluster Operations
	<ul style="list-style-type: none"> <li>• Logging for various objects</li> <li>• Sidecar logging</li> <li>• Node logging</li> <li>• Audit logging</li> <li>• Monitoring architecture</li> <li>• Monitoring solutions</li> <li>• Octant</li> </ul>	<ul style="list-style-type: none"> <li>• Onboarding new applications</li> <li>• Backups</li> <li>• Upgrading</li> <li>• Drain and cordon commands</li> <li>• Impact of an upgrade to running applications</li> <li>• Troubleshooting commands</li> </ul>
	• VMware vRealize® Operations Manager™	• VMware Tanzu™ portfolio overview

## Termíny školení

Datum	Místo konání	Časové pásmo	Jazyk	Typ	Garance termínu	CENA
29 Sep 2025	Virtual Classroom	CEDT	English	Instructor Led Online		Kč bez DPH 40,000.00

## Dodatečné informace

Školení je možné zajistit na míru. Kontaktujte nás pro bližší informace.