Cisco ACI & Kubernetes Networking

Kód kurzu: DC-ACIK8S

The major trend in a datacenter networking is currently centrally managed network, fulfilling all the requirements of modern applications - from a huge data throughput, simple scalability, enhanced security for any attached endpoint and their microsegmentation, to automation of deployed network policies across all datacenters. Such a solution is represented by Cisco Application Centric Infrasctucture (ACI), which is capable of managing not only the physical part of network, but also the virtual world of Kubernetes, in a form of mutual integration using ACI CNI plugin. Goal of this course is to describe main Kubernetes architecture for network-oriented IT engineers and a practically explain the advantage of its integration with Cisco ACI - securing the containerized workloads, detailed network visibility of individual containers (K8S PODs), or exposing a deployed application to the external users, while ACI itself can act as a hardware loadbalancer for them. This course contains one extensive practical lab, where each participant will have opportunity to deploy simple Kubernetes cluster, integrate it with ACI and ensure the connectivity and secure segmentation for multi-tier demo application.

Čo Vás naučíme

- Cisco ACI Overview
- Kubernetes Architecture Overview
- Kubernetes Networking:
- ACI & Kubernetes Integration
- Deployment of Kubernetes Demo Application

Požadované vstupné znalosti

- Knowledge of basic Datacenter operation concepts
- Good knowledge of TCP/IP stack protocols
- Understanding of basic network troubleshooting
- Basic experience with Linux OS administration
- Knowledge of Cisco ACI solution & configuration

Študijné materiály

All participants will receive printed presentation and LAB guide.

GOPAS Praha

Kodaňská 1441/46 101 00 Praha 10 Tel.: +420 234 064 900-3 info@gopas.cz GOPAS Brno Nové sady 996/25 602 00 Brno Tel.: +420 542 422 111 info@gopas.cz GOPAS Bratislava

Dr. Vladimíra Clementisa 10 Bratislava, 821 02 Tel.: +421 248 282 701-2 info@gopas.sk



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