

Szkolenie: HPE
HPE Ezmeral Container Platform Administration I



Cel szkolenia:

This course is for administrators who want to learn about the installation, upgrade, system management, network integration and other tasks required to effectively administer HPE Ezmeral Container Platform 5.3. Hands-on labs are included.

Course objectives

- Understand all architecture components of the HPE Ezmeral Container Platform 5.3
- Understand all basic administration concepts of the HPE Ezmeral Container Platform 5.3, including installation, tenant management, user management and maintenance
- Understand application development to cluster handling
- Learn how HPE Ezmeral Container Platform integrates with existing IT infrastructure and integration with MapR
- Understand monitoring and alerting services in HPE Ezmeral Container Platform

Audience

Hadoop administrators, system administrators, network administrators, IT managers

Plan szkolenia:

- Introduction
 - Introduction
 - Learning objectives review
 - Course schedule review
 - HPE Ezmeral Container Platform architecture overview
 - Control plane/management overview
 - Network architecture overview
 - Handling distributed stateful app
 - Storage architecture overview
- HPE Ezmeral Container Platform Packaging—Install, Upgrade
 - Requirement gathering and planning
 - Installation/deployment

- Airgap support
- License
- Upgrade
- HPE Ezmeral Container Platform Multi-Tenancy
 - Multi-tenancy
 - Tenant management
- HPE Ezmeral Container Platform User Role
 - User roles
 - User authentication
 - RBAC: Role binding (authorization)
 - Session management
- HPE Ezmeral Container Platform Storage
 - Overall storage architecture
 - Ephemeral storage
 - Tenant share
 - HDFS
 - Application persistent storage
 - FS mount/DTap management
 - MapR management
 - MapR Integration
 - MapR terminology
 - MapR services
 - HPE Ezmeral Container Platform and MapR integration
 - MapR Control System (MCS)
 - MapR user accounts
- HPE Ezmeral Container Platform Application
 - Complex stateful application deployment
 - Anatomy of Kubedirector application
 - Application lifecycle
 - Kubedirector operator
- HPE Ezmeral Container Platform Monitoring and Alerting
 - Kubernetes cluster service monitoring
 - Dashboard monitoring
 - Usage monitoring
 - Monitoring architecture
 - HPE Ezmeral Container Platform usage monitoring tools

- Kibana: UI visualization
- Collecting container node storage usage
- Elasticsearch monitoring logs
- Elasticsearch common tasks
- Best practice
- SNMP alerts and SMTP notification
- From planning to production to optimization—Big-Data-as-a-Service lifecycle
- Create and secure environments
- Monitor, manage and optimize
- Optimize memory usage
- HPE Ezmeral Container Platform Technical Overview
 - Control plane/management overview
 - Network architecture overview
 - Handling distributed stateful app (App Store and deployment)
 - Container application services
 - Storage architecture overview
 - Ephemeral and persistent disks
 - Application persistent storage
 - Rest API
- HPE Ezmeral Container Platform Network
 - Overall network architecture
 - Linux virtual networking
 - Docker networking
 - HPE Ezmeral Container Platform gateway
 - Gateway Loadbalancer
 - Case study: HPE Ezmeral Container Platform gateway
 - Gateway configuration scenarios
 - Kubernetes core DNS
 - EPIC: DNS for containers
 - Container network
 - Kubernetes network
 - Virtualized networking
 - Networking in multi-tenant environment
- Add-on and Picasso integration
 - Kubernetes Deployment and Add-ons
 - Picasso Cluster Deployment

Wymagania:

- Unix/Linux user and administration experience
- Hadoop/AI/big data application administration experience (Cloudera/Hortonworks, Jupyter Notebook, Tensorflow, etc.)
- Experience in machine learning lifecycle (e.g. model training/development and model deployment)
- bash/shell/python scripting

Poziom trudności



Certyfikaty:

The participants will obtain certificates signed by HPE (course completion).

Prowadzący:

Authorized HPE Trainer