Szkolenie: HPE
HPE Ezmeral Container Platform Administration I

Hewlett Packard Enterprise

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

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    - 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

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- 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

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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

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