HPE Digital Learner Ezmeral

This content pack delivers information and skills related to HPE Ezmeral Container Platform. The content includes an overview of HPE ML Ops, new features and updates from EPIC 3.7 to 4.0, and teaches developers how to deploy clusters and provide real-life prediction analysis for specific use cases. The course consists of about 50% lab exercises.

Audience
Customers and HPE personnel who are system developers, big data application developers, business analysts, data scientists and data engineers

Prerequisites
- Hands-on knowledge of EPIC
- HPE course: BlueData Platform Administration HUOL2S/01124043
- AI/ML application administration experience (Spark, Jupyter Notebook, Tensorflow, etc.)
- Experience with the machine learning lifecycle (e.g. model training/development and model deployment)
- Bash/shell/python scripting

Content Pack objectives
During this course, students will learn:
- Artificial intelligence (AI)/machine learning (ML)
- Improved manageability and flexible resource control
- Enhanced enterprise security
- Expanded support for application images
- How to set up the project repository
- How to create a training cluster
- How to create a Jupyter notebook and attach it to a training cluster
- An example of a typical machine learning workflow
- How to operationalize your model
- How to make a prediction (inference)
- How to obtain in-depth knowledge of HPE Ezmeral ML Ops
- How to apply best practices to help accelerate the development of user-based prediction analysis

Why HPE Education Services?
• IDC MarketScape leader 7 years running for IT education and training*  
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• Simplified purchase option with HPE Training Credits

*Realize Technology Value with Training IDC Infographic 2017, Sponsored by Hewlett Packard Enterprise, 2019
## Detailed Content Pack outline

### HPE Ezmeral Container Platform Delta (version 3.7 – 4.0) Self-Paced Training
- HPE ML Ops
- Improve Manageability and Resource Optimization—New WebUI
- Improve Manageability and Resource Optimization—Five User Personas
- Improve Manageability and Resource Optimization—Auto-Scaling
- Improve Manageability and Resource Optimization—HAProxy Application Service Load Balancing
- Improve Manageability and Resource Optimization—Local Tenant HDFS Storage/Compute Separation
- Improve Manageability and Resource Optimization—Improved Data Metric Collection
- Improve Manageability and Resource Optimization—Security Improvements
- Lab 1: Initial Epic Access
- Lab 2: Getting Started with ML Ops
- Lab 3: User Roles

### HPE Ezmeral ML Ops Self-Paced Training
- Machine Learning Ops Overview
- Personas Overview
- Project Repository Setup
- Training Cluster Setup
- Notebook Setup
- Model Registry and Deployment
- Inference
- Lab 1: Initial Access to HPE Ezmeral Container Platform
- Lab 2: Setting up ML Ops Environment and Project Repository
- Lab 3: Create Training Clusters
- Lab 4: Create Notebooks with Training Cluster
- Lab 5: Training First Model
- Lab 6: Register and Deploy the Model
- Lab 7: Inference
- Lab 8: Local Notebook to ML Ops Training Cluster
- Lab 9: Spark Deployment

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