Szkolenie: Cloudera
Administrator Training: CDP Private Cloud Base

CLOUDERA Training Partner

DOSTĘPNE TERMINY

2026-11-17 | 4 dni | Warszawa / Wirtualna sala
2026-12-08 | 4 dni | Kraków / Wirtualna sala

Cel szkolenia:

Cloudera's four-day administrator training course for CDP Private Cloud Base provides participants with a comprehensive understanding of all the steps necessary to operate and maintain on-premises clusters using Cloudera Manager. From installation and configuration through load balancing and tuning, this Cloudera training course is the best preparation for the real-world challenges faced by administrators who run CDP Private Cloud Base.

Through instructor-led discussion and interactive, hands-on exercises, you will learn how to:

- Install Cloudera Manager
- Use Cloudera Manager to install a CDP Private Cloud Base cluster
- Configure and monitor the cluster using Cloudera Manager
- Understand, evaluate, and select the most appropriate data storage option
- Optimize cluster performance
- Perform routine cluster maintenance tasks
- Detect, troubleshoot, and repair problems with the cluster

Plan szkolenia:

- **Cloudera Data Platform**
  - Industry Trends for Big Data
  - The Challenge to Become Data-Driven
  - The Enterprise Data Cloud
  - CDP Overview
  - CDP Form Factors
- **CDP Private Cloud Base Installation**

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- Installation Overview
- Cloudera Manager Installation
- CDP Runtime Overview
- Cloudera Manager Introduction

- **Cluster Configuration**
  - Overview
  - Configuration Settings
  - Modifying Service Configurations
  - Configuration Files
  - Managing Role Instances
  - Adding New Services
  - Adding and Removing Hosts
- **Data Storage**
  - Overview
  - HDFS Topology and Roles
  - HDFS Performance and Fault Tolerance
  - HDFS and Hadoop Security Overview
  - Working with HDFS
  - HBase Overview
  - Kudu Overview
  - Cloud Storage Overview
- **Data Ingest**
  - Data Ingest Overview
  - File Formats
  - Ingesting Data using File Transfer or REST Interfaces
  - Importing Data from Relational Databases with Apache Sqoop
  - Ingesting Data Using NiFi
  - Best Practices for Importing Data
- **Data Flow**
  - Overview of Cloudera Flow Management and NiFi
  - NiFi Architecture
  - Cloudera Edge Flow Management and MiNiFi
  - Controller Services
  - Apache Kafka Overview
  - Apache Kafka Cluster Architecture
  - Apache Kafka Command Line Tools

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- **Data Access and Discovery**
  - Apache Hive
  - Apache Impala
  - Apache Impala Tuning
  - Search Overview
  - Hue Overview
  - Managing and Configuring Hue
  - Hue Authentication and Authorization
  - CDSW Overview
- **Data Compute**
  - YARN Overview
  - Running Applications on YARN
  - Viewing YARN Applications
  - YARN Application Logs
  - MapReduce Applications
  - YARN Memory and CPU Settings
  - Tez Overview
  - Hive on Tez
  - ACID for Hive
  - Spark Overview
  - How Spark Applications Run on YARN
  - Monitoring Spark Applications
  - Phoenix Overview
- **Managing Resources**
  - Configuring cgroups with CPU Scheduling
  - The Capacity Scheduler
  - Managing Queues
  - Impala Query Scheduling
- **Planning Your Cluster**
  - General Planning Considerations
  - Choosing the Right Hardware
  - Network Considerations
  - CDP Private Cloud Considerations
  - Configuring Nodes
- **Advanced Cluster Configuration**
  - Configuring Service Ports

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- Tuning HDFS and MapReduce
- Managing Cluster Growth
- Erasure Coding
- Enabling HDFS High Availability

- **Cluster Maintenance**
  - Checking HDFS Status
  - Copying Data Between Clusters
  - Rebalancing Data in HDFS
  - HDFS Directory Snapshots
  - Host Maintenance
  - Upgrading a Cluster
- **Cluster Monitoring**
  - Cloudera Manager Monitoring Features
  - Health Tests
  - Events and Alerts
  - Charts and Reports
  - Monitoring Recommendations
- **Cluster Troubleshooting**
  - Overview
  - Troubleshooting Tools
  - Misconfiguration Examples
- **Security**
  - Data Governance with SDX
  - Hadoop Security Concepts
  - Hadoop Authentication Using Kerberos
  - Hadoop Authorization
  - Hadoop Encryption
  - Securing a Hadoop Cluster
  - Apache Ranger
  - Apache Atlas
  - Backup and Recovery
- **Private Cloud / Public Cloud**
  - CDP Overview
  - Private Cloud Capabilities
  - Public Cloud Capabilities
  - What is Kubernetes?

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- WXM Overview
- Auto-scaling

Wymagania:

This course is best suited to systems administrators who have at least basic Linux experience. Prior knowledge of CDP, nor earlier platforms such as Cloudera's CDH or Hortonworks HDP, is not required.

Poziom trudności



Certyfikaty:

Upon completion of the course, attendees are encouraged to continue their study and register for the Cloudera Certified Administrator (CCA) exam. Certification is a great differentiator. It helps establish you as a leader in the field, providing employers and customers with tangible evidence of your skills and expertise.

Prowadzący:

Certified Cloudera Instructor

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