

# Cloudera

CDP-6001

*CDP Machine Learning Engineer Certification Exam*

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# Latest Version: 6.0

## Question: 1

You are deploying a complex machine learning pipeline in CML Which of the following actions would be the MOST suitable way to break down the pipeline for improved modularity and collaboration?

- A. Create multiple interconnected workspaces, each handling a pipeline stage.
- B. Define the entire pipeline within a single session.
- C. Utilize separate virtual machines for each pipeline step.
- D. Write the entire pipeline as a monolithic Python script.

**Answer: A**

## Question: 2

Your data science team needs to collaborate on a project involving sensitive financial data. What is the primary way to enforce access controls and manage permissions within a CML workspace?

- A. Employing network-level firewalls at the instance level.
- B. Configuring user roles and project-level permissions.
- C. Relying on operating system-level user groups.
- D. Implementing encryption solely within the machine learning models.

**Answer: B**

## Question: 3

A workspace has been running for an extended period, consuming significant resources. You want to optimize costs without losing work. Which actions would be appropriate?

- A. Delete the workspace and all its contents.
- B. Stop the workspace, then restart it when needed.
- C. Migrate the workspace to a less powerful instance type.
- D. Manually reduce the number of running sessions within the workspace.
- E. Convert the workspace instance to a spot instance type.

**Answer: B,C,D**

## Question: 4

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You need to share a reproducible machine learning model, including its dependencies and environment configuration, with external stakeholders. Which of the following CML features would be the BEST fit for this task?

- A. Creating a detailed README file within the project.
- B. Exporting the workspace as a Docker image.
- C. Publishing the model as an API endpoint.
- D. Sharing the project's Git repository.

**Answer: B**

### Question: 5

While deploying a new model to a CML workspace, you encounter conflicts with existing library versions. Which approach would be effective in resolving this?

- A. Manually upgrade all project libraries to their latest versions.
- B. Create a new workspace with the required libraries already installed.
- C. Utilize a virtual environment or Conda environment within the workspace.
- D. Rely on the default CML environment without any modifications.

**Answer: C**

### Question: 6

You have a computationally intensive model training workload in a CML workspace. Which of the following would likely lead to the most significant performance improvement?

- A. Increasing the workspace's storage capacity.
- B. Switching to an instance type with a GPU.
- C. Upgrading to a newer version of CML
- D. Refactoring the training code to use a more efficient algorithm.

**Answer: B**

### Question: 7

Your CML workspace suddenly becomes unresponsive, and you suspect a memory leak. What tools or techniques would help you diagnose the issue?

- A. CML's built-in resource monitoring dashboard.
- B. System-level tools like top or htop.

- C. Python profiling libraries (e.g., cProfile, line\_profiler).
- D. Examining CML application logs.
- E. Restarting the workspace instance.

**Answer: A,B,C,D**

### Question: 8

You're automating the creation of CML workspaces based on templates. Which technologies or approaches would be suitable?

- A. CML REST API
- B. Infrastructure as Code tools (Terraform, CloudFormation)
- C. Configuration management tools (Ansible, Chef)
- D. Apache NiFi dataflows
- E. Manually configuring each workspace through the CML CLI

**Answer: A,B,C**

### Question: 9

You want to track the evolution of experiments within a long-running CML project. Which combination of features would be the most effective?

- A. CML Jobs for scheduling regular training runs.
- B. Git version control for code and configuration.
- C. Experiment tracking tools like MLflow.
- D. CML's built-in file versioning.

**Answer: B,C**

### Question: 10

Due to a change in requirements, you need to modify the underlying operating system of your CML workspaces. How would you best achieve this?

- A. Install the required packages directly within the running workspace.
- B. Create a new CML project and migrate your work.
- C. Utilize a custom base image when creating new workspaces.
- D. Operating system modifications are not directly supported in CML.

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**Answer: C**

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