Cloudera

CDP-6001
CDP Machine Learning Engineer Certification Exam

Questions And Answers PDF Format:

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Version = **Product**

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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 dat a. 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

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 IJI

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.

Answer: C

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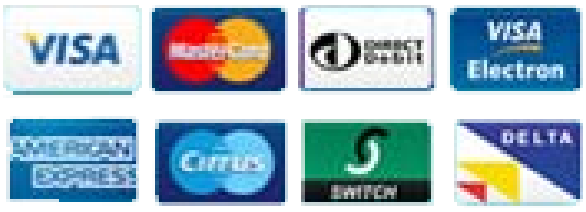
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