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Question 1

Question Type: MultipleChoice

Your cluster uses Amazon S3 to store checkpoints. You ran an experiment on an HPE Machine Learning Development Environment cluster, you want to find the location for the best checkpoint created during the experiment. What can you do?

Options:

- A- In the experiment config that you used, look for the 'bucket' field under 'hyperparameters.' This is the UUID for checkpoints.
- B- Use the 'det experiment download -top-n l' command, referencing the experiment ID.
- C- In the Web UI, go to the Task page and click the checkpoint task that has the experiment ID.
- D- Look for a 'determined-checkpoint/' bucket within Amazon S3, referencing your experiment ID.

Answer:

D

Explanation:

HPE Machine Learning Development Environment uses Amazon S3 to store checkpoints. To find the location of the best checkpoint created during an experiment, you need to look for a 'determined-checkpoint/' bucket within Amazon S3, referencing your experiment ID.

This bucket will contain all of the checkpoints that were created during the experiment.

Question 2

Question Type: MultipleChoice

What is a benefit of HPE Machine Learning Development Environment that tends to resonate with executives?

Options:

- A- It uses a centralized training architecture that is highly efficient.
- B- It helps DL projects complete faster for a faster ROI.
- C- It helps companies deploy models and generate revenue.
- D- It automatically cleans up data to create better end results.

Answer:

B

Explanation:

HPE Machine Learning Development Environment is designed to deliver results more quickly than traditional methods, allowing companies to get a return on their investment sooner and benefit from their DL projects faster. This tends to be a benefit that resonates with executives, as it can help them realize their goals more quickly and efficiently.

Question 3

Question Type: MultipleChoice

Compared to Asynchronous Successive Halving Algorithm (ASHA), what is an advantage of Adaptive ASHA?

Options:

- A- Adaptive ASHA can handle hyperparameters related to neural architecture while ASHA cannot.
- B- ASHA selects hyperparameter configs entirely at random while Adaptive ASHA clones higher-performing configs.
- C- Adaptive ASHA can train more trials in certain amount of time, as compared to ASHA.
- D- Adaptive ASHA tries multiple exploration/exploitation tradeoffs by running multiple Instances of ASHA.

Answer:

B

Explanation:

Adaptive ASHA is an enhanced version of ASHA that uses a reinforcement learning approach to select hyperparameter configurations. This allows Adaptive ASHA to select higher-performing configs and clone those configurations, allowing for better performance than ASHA.

Question 4

Question Type: MultipleChoice

A customer is deploying HPE Machine learning Development Environment on on-prem infrastructure. The customer wants to run some experiments on servers with 8 NVIDIA A too GPUs and other experiments on servers with only Z NVIDIA T4 GPUs. What should you recommend?

Options:

A- Letting the conductor automatically determine which servers to use for each experiment, based on the number of resource slots

required

- B-** Deploying two HPE Machine Learning Development Environment clusters, one for each server type
- C-** Deploying servers with 8 GPUs as agents and using the conductor to run experiments that require only 2 GPUs
- D-** Establishing multiple compute resource pools on the cluster, one for servers of each type

Answer:

D

Explanation:

By establishing multiple compute resource pools on the cluster, you can ensure that the correct servers are used for each experiment, depending on the number of GPUs required. This will help ensure that the experiments are run on the servers with the correct resources without having to manually assign each experiment to the appropriate server.

Question 5

Question Type: MultipleChoice

What is a benefit of HPE Machine Learning Development Environment, beyond open source Determined AI?

Options:

- A- Experiment tracking
- B- Model Inferencing
- C- Distributed training
- D- Premium dedicated support

Answer:

C

Explanation:

The benefit of HPE Machine Learning Development Environment beyond open source Determined AI is Distributed Training. Distributed training allows multiple machines to train a single model in parallel, greatly increasing the speed and efficiency of the training process. HPE ML Development Environment provides tools and support for distributed training, allowing users to make the most of their resources and quickly train their models.

Question 6

Question Type: MultipleChoice

The ML engineer wants to run an Adaptive ASHA experiment with hundreds of trials. The engineer knows that several other experiments will be running on the same resource pool, and wants to avoid taking up too large a share of resources. What can the engineer do in the experiment config file to help support this goal?

Options:

- A- Under 'searcher,' set 'max_concurrent_trails' to cap the number of trials run at once by this experiment.
- B- Under 'searcher,' set 'divisor-' to 2 to reduce the share of the resource slots that the experiment receives.
- C- Set the 'scheduling_unit' to cap the number of resource slots used at once by this experiment.
- D- Under 'resources.- set 'priority to 1 to reduce the share of the resource slots mat the experiment receives.

Answer:

A

Explanation:

The ML engineer can set 'maxconcurrenttrials' under 'searcher' in the experiment config file to cap the number of trials run at once by this experiment. This will help ensure that the experiment does not take up too large a share of resources, allowing other experiments to also run concurrently.

Question 7

Question Type: MultipleChoice

You want to set up a simple demo cluster for HPE Machine Learning Development Environment for the open source Determined all on a local machine. Which OS Is supported?

Options:

- A- HP-UX v11i
- B- Windows Server 2016 or above
- C- Windows 10 or above
- D- Red Hat 7-based Linux

Answer:

D

Explanation:

The OS supported for setting up a simple demo cluster for HPE Machine Learning Development Environment for the open source Determined on a local machine is Red Hat 7-based Linux. Red Hat 7-based Linux is an open source operating system that is used

extensively in enterprise applications. It provides a stable and secure platform for running applications and is suitable for use in a demo cluster.

Question 8

Question Type: MultipleChoice

A customer has Men expanding its deep learning (DO prefects and is confronting several challenges. Which of these challenges does HPE Machine Learning Development Environment specifically address?

Options:

- A- Time-consuming data collection
- B- Complex model deployment processes
- C- Complex and time-consuming data cleansing process
- D- Complex and time-consuming hyperparameter optimization (HPO)

Answer:

D

Explanation:

The HPE Machine Learning Development Environment specifically addresses Complex and time-consuming hyperparameter optimization (HPO). HPO is a process used to identify the most effective set of hyperparameters for a given machine learning model. HPE's ML Development Environment provides a suite of tools that allow users to quickly and easily design and deploy deep learning models, as well as optimize their hyperparameters to get the best results.

Question 9

Question Type: MultipleChoice

What is a benefit of HPE Machine Learning Development Environment, beyond open source Determined AI?

Options:

- A-** Automated user provisioning
- B-** Pipeline-based data management
- C-** Distributed training

D- Automated hyperparameter optimization (HPO)

Answer:

D

Explanation:

One of the main benefits of HPE Machine Learning Development Environment is its ability to automate the process of hyperparameter optimization (HPO). HPO is a process of automatically tuning the hyperparameters of a model during training, which can greatly improve a model's performance. HPE ML DE provides automated HPO, making the process of tuning and optimizing the model much easier and more efficient.

Question 10

Question Type: MultipleChoice

An ml engineer wants to train a model on HPE Machine Learning Development Environment without implementing hyper parameter optimization (HPO). What experiment config fields configure this behavior?

Options:

- A- profiling: enabled: false
- B- hyperparameters; optimizer:none
- C- searcher: name: single
- D- resources: slots_per_trial: 1

Answer:

B

Explanation:

To train a model on HPE Machine Learning Development Environment without implementing hyper parameter optimization (HPO), you need to set the 'optimizer' field to 'none' in the hyperparameters section of the experiment config. This will instruct the ML engine to not use any hyperparameter optimization when training the model.

Question 11

Question Type: MultipleChoice

Refer to the exhibit.



You are demonstrating HPE Machine Learning Development Environment, and you show details about an experiment, as shown in the exhibits. The customer asks about what "validation loss" means. What should you respond?

Options:

- A-** Validation refers to testing how well the current model performs on new data; the lower the loss the better the performance.
- B-** Validation refers to an assessment of how efficient the model code is; the lower the loss the lower the demand on GPU memory resources.
- C-** Validation loss refers to the loss detected during the backward pass of training, while training loss refers to loss during the forward pass.
- D-** Validation loss is metadata that indicates how many updates were lost between the conductor and agents.

Answer:

A

Explanation:

Validation loss is a metric used to measure how well the model is performing on unseen data. It is calculated by taking the difference between the predicted values and the actual values. The lower the validation loss, the better the model's performance on new data.

Question 12

Question Type: MultipleChoice

A company has an HPE Machine Learning Development Environment cluster. The ML engineers store training and validation data sets in Google Cloud Storage (GCS). What is an advantage of streaming the data during a trial, as opposed to downloading the data?

Options:

- A- Streaming requires just one bucket, while downloading requires many.
- B- The trial can more quickly start up and begin training the model.
- C- The trial can better separate training and validation data.
- D- Setting up streaming is easier than setting up downloading.

Answer:

B

Explanation:

Streaming the data during a trial allows the data to be processed more quickly, as it does not need to be downloaded onto the cluster before training can begin. This means that the trial can start up faster and the model can begin training more quickly.

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