



Exam Code: HPE2-N69

Exam Name: HP Using HPE AI and Machine Learning

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Question No: 1

You are helping a customer start to implement hyper parameter optimization (HPO) with HPE Machine learning Development Environment. An ML engineer is putting together an experiment config file with the desired Adaptive A5HA settings. The engineer asks you questions, such as how many trials will be trained on the max length and what the min length for all trials will be.

What should you explain?

- A. The engineer should run the "det preview-search" command, referencing the experiment config.
- B. The engineer should access the HPE Machine Learning Development online calculator and input the mode, max trials, max length, divisor, and max runs.
- C. The engineer should upload the experiment config to the HPE Machine Learning Development Environment WebUI and view the graph of the experiment plan.
- D. The engineer should run a preliminary experiment with one tenth the desired number of max trials, assess the results, and then run the full experiment.

Answer: D

Explanation:

Question No: 2

A customer is using fair-share scheduling for an HPE Machine Learning Development Environment resource pool. What is one way that users can obtain relatively more resource slots for their important experiments?

- A. Set the weight to a higher than default value.
- B. Set the weight to a lower than default value.
- C. Set the priority to a lower than default value.
- D. Set the priority to a higher than default value.

Answer: A

Explanation:

Question No: 3

You want to set up a simple demo cluster for HPE Machine Learning Development Environment (or the open source Determined AI) on Amazon Web Services (AWS). You plan to use "det deploy" to set up the cluster. What is one prerequisite?

- A. installing the NVIDIA Container Toolkit on your local machine
- B. Manually creating the AWS EC2 instance with a PostgreSQL database
- C. Recording the name of a valid AWS EC2 keypair
- D. Adding Amazon Elastic Kubernetes Services (EKS) to your AWS account

Answer: A

Explanation:

Question No: 4









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?

- 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 that setting up downloading.

Answer: C

Explanation:

Question No: 5

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?

- A. Validation refers to testing how well the current model performs on new data; file 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: C	
Explanation:	
Question No: 6	
An ml engineer wants to train a model on HPE Machine Learning Develo	pment Environment without implementing hyper parameter optimization (HPO). What experiment config fields configure this behavior?
A. profiling: enabled: false	
B. hyperparameters; optimizer:none	
C. searcher: name: single	
D. resources: slots_per_trial: 1	
Answer: D	
Explanation:	
Question No: 7	
What is a benefit of HPE Machine Learning Development Environment, b	peyond open source Determined AI?
A. Automated user provisioning	
B. Pipeline-based data management	
C. Distributed training	
D. Automated hyperparameter optimization (HPO)	
Answer: B	
Explanation:	
Question No: 8	
A customer has Men expanding its deep learning (DO prefects and is con	fronting several challenges.
Which of these challenges does HPE Machine Learning Development Env	vironment specifically address?
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: C	
Explanation:	









Question No: 9	
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?	
A. HP-UX v11i	
B. Windows Server 2016 or above	
C. Windows 10 or above	
D. Red Hat 7-based Linux	
Answer: A	
Explanation:	
Question No: 10	
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 sh resources. What can the engineer do in the experiment config file to help support this goal?	hare of
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.	
C. Set the "scheduling_unit" to cap the number of resource slots used at once by this experiment. D. Under "resources set 'priority to I to reduce the share of the resource slots mat the experiment receives.	
Answer: A	
Explanation:	
Question No: 11	
What is a benefit or HPE Machine Learning Development Environment, beyond open source Determined AI?	
A. Experiment tracking	
B. Model Inferencing	
C. Distributed training	
D. Premium dedicated support	
Answer: A	
Explanation:	
Question No: 12	
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 8 NVIDIA A too GPUs and 0 NVIDIA A too	th only Z









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 tor 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 tor servers or each type			
Answer:D			
Explanation:			
Question No: 13			
Compared to Asynchronous Successive Halving Algorithm (ASHA), what is an advantage of Adaptive ASHA?			
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 higherperforming 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 oy running multiple Instances of ASHA.			
Answer: D			
Explanation:			
Explanation: Question No: 14			
What is a benefit of HPE Machine Learning Development Environment mat tends to resonate with executives?			
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:			
Question No: 15			
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 tor the best checkpoint created during you do?	the experiment. What can		
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 I" 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, refere	encing your experiment ID.	
Answer: B		
Explanation:		
Question No: 16		
What is a reason to use the best tit policy on an HPE Machine Learning D	Development Environment resource pool?	
A. Ensuring that all experiments receive their fair share of resources		
B. Minimizing costs in a cloud environment		
C. Equally distributing utilization across multiple agents		
D. Ensuring that the highest priority experiments obtain access to more	resources	
Answer: B		
Explanation:		
Question No: 17		
What is one of the responsibilities of the conductor of an HPE Machine L	earning Development Environment cluster?	
A. it downloads datasets for training.		
B. It uploads model checkpoints.		
C. It validates trained models.		
D. It ensures experiment metadata is stored.		
Answer: B		
Explanation:		
Question No: 18		
What type of interconnect does HPE Machine learning Development System use for high-speed, agent-to-agent communications?		
A. Remote Direct Memory Access (RDMA) overconverged Ethernet (RoCE)		
B. Slingshot		
C. InfiniBand		
D. Data Center Bridging (OCB)-enabled Ethernet		
Answer: D		
Explanation:		









Question No: 19

An ML engineer is running experiments on HPE Machine Learning Development Environment. The engineer notices all of the checkpoints for a trial except one disappear after the trial ends. The engineer wants to Keep more of these checkpoints. What can you recommend?

A. Adjusting how many of the latest and best checkpoints are saved in the experiment config's checkpoint storage settings.

- B. Monitoring ongoing trials In the WebUI and clicking checkpoint nags to auto-save the desired checkpoints.
- C. Double-checking that the checkpoint storage location is operating under 90% of total capacity.
- D. Adjusting the checkpoint storage settings to save checkpoints to a shared file system instead of cloud storage.

Answer: D

Explanation:

Question No: 20

The 10 agents in "my-compute-poor nave 8 GPUs each, you want to change an experiment config to run on multiple GPUs at once. What Is a valid setting tor "resources_per_trial?

A. 10

B. 24

C. 12 D. 20

Answer: A

Explanation:

Question No: 21

You are meeting with a customer, and MUDL engineers express frustration about losing work flue to hardware failures. What should you explain about how HPE Machine Learning Development Environment addresses this pain point?

- A. The solution automatically mirrors the training process on redundant agents, which take over If an issue occurs.
- B. The solution continuously monitors agent hardware and sends out proactive alerts before failed hardware causes training to tail.
- C. The conductor and each of the agents ate deployed in an active-standby model, which protects in case of hardware issues.
- D. The solution can take periodic checkpoints during the training process and automatically restart failed training from the latest checkpoint.

Answer: A

Explanation:

Question No: 22

At what FQDN (or IP address) do users access the WebUI Tor an HPE Machine Learning Development cluster?

A. Any of the agent's in a compute pool









B. A virtual one assigned to the cluster
C. The conductor's
D. Any of the agent's in an aux pool
Answer: D
Explanation:
Question No: 23
What is the role of a hidden layer in an artificial neural network (ANN)?
A. It is responsible for passively reformatting data for use in the ANN.
B. It is responsible for making the final decision about how to label a record, based on weighted input from preceding layers.
C. It receives and weighs inputs from the preceding layer and produces outputs for the next layer.
D. It does not play a role during the forward pass of data through the ANN, but it helps to optimize during the backward pass.
Answer: D
Explanation:
Question No: 24 A trial is running on a GPU slot within a resource pool on HPE Machine Learning Development Environment. That GPU fails. What happens next?
A trial is running on a GPU slot within a resource pool on HPE Machine Learning Development Environment. That GPU fails. What happens next?
A. The trial tails, and the ML engineer must restart it manually by re-running the experiment.
B. The concluded reschedules the trial on another available GPU in the pool, and the trial restarts from the state of the latest training workload.
C. The conductor reschedules the trial on another available GPU in the pool, and the trial restarts from the latest checkpoint.
D. The trial fails, and the ML engineer must manually restart it from the latest checkpoint using the WebUI.
Answer: C
Explanation:
Question No: 25
You are in a directory on your machine with your experiment config file and your model code. You enter this command: det experiment create myfile.yaml You receive this error: det experiment create: error: the following arguments are required: model_def What should you do?
A. Re-enter the command with "-m" in which is the code filename.
B. Make sure that the myfile.yaml tile includes code tor a PyTorchTrial or TFKerasTrial class.
C. Re-enter the command with a period (.) at the end.
D. Make sure that you have already logged into the cluster with the "det login" command.









Answer: B		
Explanation:		
Question No: 26		
You are proposing an HPE Machine Learning Development Environment solution for a customer. On what do you base the license count?		
A. The number of servers in the cluster		
B. The number of agent GPUs		
C. The number of processor cores on agents		
D. The number of processor cores on all servers in the cluster		
Answer: B		
Explanation:		
Question No: 27		
You want to open the conversation about HPE Machine Learning Development Environment with an IT contact at a customer. What can be a good discovery question?		
A. How long does it currently take for a DL training to run the backward pass?		
B. How much do you understand about building ML and DL models?		
B. How much do you understand about building ML and DL models? C. How much time do you spend managing the ML infrastructure?		
D. What frustrations do you have with existing ML deployment and differencing solutions?		
Answer: A		
Explanation:		
Question No: 28		
What role do HPE ProLiant DL325 servers play in HPE Machine Learning Development System?		
A. They run validation and checkpoint workloads.		
B. They run training workloads that do not require GPUs.		
C. They host management software such as the conductor and HPCM.		
D. They run non-distributed training workloads.		
Answer: C		
Explanation:		
Question No: 29		









what is one key target vertical (or HFE Machine Learning Development solutions:	
A. Hospitality	
B. K-12education	
C. Retail	
D. Manufacturing	
Answer: D	
Explanation:	
Question No: 30	
You are meeting with a customer how has several DL models deployed. Out wants to expand the projects.	
The ML/DL team is growing from 5 members to 7 members. To support the growing team, the customer has assigned 2 dedicated IT start. The customer is trying to put together an on-prem GPU cluster with at least 14 CPUs.	
What should you determine about this customer?	
A. The customer is not ready for an HPE Machine Learning Development solution, but you could recommend open-source Determined Al.	
B. The customer is not ready for an HPE Machine Learning Development solution. Out you could recommend an educational HPE Pointnext ASPS workshop.	
C. The customer is a key target for HPE Machine Learning Development Environment, but not HPE Machine Learning Development System.	
D. The customer is a key target for an HPE Machine Learning Development solution, and you should continue the discussion.	
Answer: A	
Explanation:	
Question No: 31	
Where does TensorFlow fit in the ML/DL Lifecycle?	
A. it helps engineers use a language like Python to code and trail DL models.	
B. it provides pipelines to manage the complete lifecycle.	
C. It is primarily used to transport trained models to a deployment environment.	
D. It adds system and GPU monitoring to the training process.	
Answer: A	
Explanation:	
Question No: 32	
You want to set up a simple demo Ouster tor HPE Machine learning Development Environment for the open source Determined AI) on a local machine. You plan to use "del deploy" to set up the cluster. What software must be installed on the machine before you run that command?	









A. Kubernetes	
B. PyTorch	
C. Terralorm	
D. Docker	
Answer: A	
Explanation:	
Question No: 33	
An HPE Machine Learning Development Environment cluster has this re	esource pool:
Name: pool 1	
Location: On-prem	
Agents: 2	
Aux containers per agent: 100	
Total slots: 0	
Which type of workload can run In pool I?	
A. Training	
B. GPU Jupyter Notebook	
C. Validation	
D. CPU-only Jupyter Notebook	
Answer: D	
Explanation:	
Question No: 34	
Question No: 34 What common challenge do ML teams lace in implementing hyperpara	meter optimization (HPO)?
What common challenge do ML teams lace in implementing hyperpara	ntegration with the IT team.
What common challenge do ML teams lace in implementing hyperpara A. HPO is a joint ml and IT Ops effort, and engineers lack deep enough i	ove their models to a new framework.
What common challenge do ML teams lace in implementing hyperpara A. HPO is a joint ml and IT Ops effort, and engineers lack deep enough i B. They cannot implement HPO on TensorFlow models, so they must m	ntegration with the IT team. ove their models to a new framework. great deal of expertise.









What happens?
A. Trial I is allowed to finish. Then Trial 3 is scheduled.
B. Trial 2 is scheduled on 8 of the slots. Then, alter Trial 1 has finished, it receives 16 more slots.
C. Trial 1 is allowed to finish. Then Trial 2 is scheduled.
D. Trial 3 is scheduled on 8 of the slots. Then, after Trial 1 has finished, it receives 16 more slots.
Answer: A
Explanation:
Question No: 36
ML engineers are defining a convolutional neural network (CNN) model bur they are not sure how many filters to use in each convolutional layer. What can help them address this concern?
A. Using hyperparameter optimization (HPO)
B. Distributing the training across multiple CPUs
C. Using a variable learning late
D. Training the model on multiple epochs
Answer: D
Explanation:
Question No: 37
A company has recently expanded its ml engineering resources from 5 CPUs 1012 GPUs.
What challenge is likely to continue to stand in the way of accelerating deep learning (DU training?
A. A lack of understanding of the DL model architecture by the NL engineering team
B. The complexity of adjusting model code to distribute the training process across multiple GPUs
C. A lack of adequate power and cooling for the GPU-enabled servers
D. The requirement that the ML team must wait for the IT team to initiate each new training process
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An HPE Machine Learning Development Environment resource pool uses priority scheduling with preemption disabled. Currently Experiment 1 Trial I is using 32 of the pool's 40 total slots; it has priority 42. Users then run two more



Explanation:

experiments:

• Experiment 2:1 trial (Trial 2) that needs 24 slots; priority 50

• Experiment 3; I trial (Trial 3) that needs 24 slots; priority I

Question No: 35





Answer: A		
Explanation:		
Question No: 38		
What distinguishes deep learning (DL) from other forms of machine learning (ML)?		
A. Models based on neural networks with interconnected layers of nodes, including multiple hidden layers		
B. Models defined with Apache Spark rather than MapReduce		
C. Models that are trained through unsupervised, rather than supervised, training		
D. Models trained through multiple training processes implemented by different team members		
Answer: C		
Explanation:		
Question No: 39		
What are the mechanics of now a model trains?		
A. Decides which algorithm can best meet the use case for the application in question		
B. Adjusts the model's parameter weights such that the model can Better perform its tasks		
B. Adjusts the model's parameter weights such that the model can Better perform its tasks C. Tests how accurately the model performs on a wide array of real world data		
D. Detects Data drift of content drift that might compromise the ML model's performance		
Answer: A		
Explanation:		
Question No: 40		
A customer mentions that the ML team wants to avoid overfitting models. What does this mean?		
A. The team wants to avoid wasting resources on training models with poorly selected hyperparameters.		
B. The team wants to spend less time on creating the code tor models and more time training models.		
C. The team wants to avoid training models to the point where they perform less well on new data.		
D. The team wants to spend less time figuring out which CPUs are available for training models.		
Answer: D		
Explanation:		





