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>> MLA-C01시험대비 최신버전 공부자료 <<

시험패스 가능한 MLA-C01시험대비 최신버전 공부자료 덤프 최신자료

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Amazon MLA-C01 시험요강:

주제	소개
주제 1	Data Preparation for Machine Learning (ML): This section of the exam measures skills of Forensic Data Analysts and covers collecting, storing, and preparing data for machine learning. It focuses on understanding different data formats, ingestion methods, and AWS tools used to process and transform data. Candidates are expected to clean and engineer features, ensure data integrity, and address biases or compliance issues, which are crucial for preparing high-quality datasets in fraud analysis contexts.

주제 2	• Deployment and Orchestration of ML Workflows: This section of the exam measures skills of Forensic Data Analysts and focuses on deploying machine learning models into production environments. It covers choosing the right infrastructure, managing containers, automating scaling, and orchestrating workflows through CI • CD pipelines. Candidates must be able to build and script environments that support consistent deployment and efficient retraining cycles in real-world fraud detection systems.
주제 3	• ML Model Development: This section of the exam measures skills of Fraud Examiners and covers choosing and training machine learning models to solve business problems such as fraud detection. It includes selecting algorithms, using built-in or custom models, tuning parameters, and evaluating performance with standard metrics. The domain emphasizes refining models to avoid overfitting and maintaining version control to support ongoing investigations and audit trails.
주제 4	• ML Solution Monitoring, Maintenance, and Security: This section of the exam measures skills of Fraud Examiners and assesses the ability to monitor machine learning models, manage infrastructure costs, and apply security best practices. It includes setting up model performance tracking, detecting drift, and using AWS tools for logging and alerts. Candidates are also tested on configuring access controls, auditing environments, and maintaining compliance in sensitive data environments like financial fraud detection.

최신 AWS Certified Associate MLA-C01 무료샘플문제 (Q11-Q16):

질문 # 11

A company runs an Amazon SageMaker domain in a public subnet of a newly created VPC. The network is configured properly, and ML engineers can access the SageMaker domain.

Recently, the company discovered suspicious traffic to the domain from a specific IP address.

The company needs to block traffic from the specific IP address.

Which update to the network configuration will meet this requirement?

- A. Create a network ACL inbound rule to deny traffic from the specific IP address. Assign the rule to the default network Ad for the subnet where the domain is located.
- B. Create a security group inbound rule to deny traffic from the specific IP address. Assign the security group to the domain.
- C. Create a VPC route table to deny inbound traffic from the specific IP address. Assign the route table to the domain.
- D. Create a shadow variant for the domain. Configure SageMaker Inference Recommender to send traffic from the specific IP address to the shadow endpoint.

정답: A

질문 # 12

A medical company is using AWS to build a tool to recommend treatments for patients. The company has obtained health records and self-reported textual information in English from patients. The company needs to use this information to gain insight about the patients.

Which solution will meet this requirement with the LEAST development effort?

- A. Use the Amazon SageMaker Sequence-to-Sequence (seq2seq) algorithm to create a text summary from the data.
- B. Use Amazon Comprehend Medical to summarize the data.
- C. Use Amazon SageMaker to build a recurrent neural network (RNN) to summarize the data.
- D. Use Amazon Kendra to create a quick-search tool to query the data.

정답: B

질문 # 13

A company is building an Amazon SageMaker AI pipeline for an ML model. The pipeline uses distributed processing and distributed training.

An ML engineer needs to encrypt network communication between instances that run distributed jobs. The ML engineer configures the distributed jobs to run in a private VPC.

What should the ML engineer do to meet the encryption requirement?

- A. Configure traffic encryption by using security groups.
- **B. Enable inter-container traffic encryption.**
- C. Enable network isolation.
- D. Enable VPC flow logs.

정답: B

설명:

In Amazon SageMaker, distributed training and distributed processing jobs often involve multiple instances exchanging data over the network. By default, when these jobs run inside a VPC, network traffic remains private but is not automatically encrypted between instances. When compliance or security requirements mandate encryption of in-transit data, additional configuration is required.

The correct solution is to enable inter-container traffic encryption, which ensures that all network communication between containers running on different instances is encrypted using TLS. Amazon SageMaker provides a built-in feature for this purpose. When inter-container traffic encryption is enabled, SageMaker automatically configures secure communication channels between all nodes participating in a distributed job, including training clusters and processing jobs.

Option A (Network isolation) is incorrect because network isolation prevents containers from making outbound network calls and accessing the internet. It does not encrypt traffic between instances.

Option B (Security groups) is incorrect because security groups control network access and traffic flow, not encryption. They can restrict which instances can communicate, but they do not provide data-in-transit encryption.

Option D (VPC flow logs) is incorrect because VPC flow logs are used for monitoring and auditing network traffic, not for encrypting it.

AWS documentation explicitly states that enabling inter-container traffic encryption is the recommended and supported approach for encrypting data exchanged between instances during distributed SageMaker jobs. This feature aligns with enterprise security best practices and regulatory requirements for protecting sensitive ML training data in transit.

Therefore, Option C is the only solution that directly fulfills the encryption requirement for distributed SageMaker workloads.

질문 # 14

A company is building a web-based AI application by using Amazon SageMaker. The application will provide the following capabilities and features: ML experimentation, training, a central model registry, model deployment, and model monitoring.

The application must ensure secure and isolated use of training data during the ML lifecycle. The training data is stored in Amazon S3.

The company is experimenting with consecutive training jobs.

How can the company MINIMIZE infrastructure startup times for these jobs?

- A. Use Managed Spot Training.
- B. Use the SageMaker distributed data parallelism (SMDDP) library.
- C. Use SageMaker Training Compiler.
- **D. Use SageMaker managed warm pools.**

정답: D

설명:

When running consecutive training jobs in Amazon SageMaker, infrastructure provisioning can introduce latency, as each job typically requires the allocation and setup of compute resources. To minimize this startup time and enhance efficiency, Amazon SageMaker offers Managed Warm Pools.

Key Features of Managed Warm Pools:

* Reduced Latency: Reusing existing infrastructure significantly reduces startup time for training jobs.

* Configurable Retention Period: Allows retention of resources after training jobs complete, defined by the `KeepAlivePeriodInSeconds` parameter.

* Automatic Matching: Subsequent jobs with matching configurations (e.g., instance type) can reuse retained infrastructure.

Implementation Steps:

* Request Warm Pool Quota Increase: Increase the default resource quota for warm pools through AWS Service Quotas.

* Configure Training Jobs:

* Set `KeepAlivePeriodInSeconds` for the first training job to retain resources.

* Ensure subsequent jobs match the retained pool's configuration to enable reuse.

* Monitor Warm Pool Usage: Track warm pool status through the SageMaker console or API to confirm resource reuse.

Considerations:

* Billing: Resources in warm pools are billable during the retention period.

* Matching Requirements: Jobs must have consistent configurations to use warm pools effectively.

Alternative Options:

- * Managed Spot Training: Reduces costs by using spare capacity but doesn't address startup latency.
- * SageMaker Training Compiler: Optimizes training time but not infrastructure setup.
- * SageMaker Distributed Data Parallelism Library: Enhances training efficiency but doesn't reduce setup time.

By using Managed Warm Pools, the company can significantly reduce startup latency for consecutive training jobs, ensuring faster experimentation cycles with minimal operational overhead.

AWS Documentation: Managed Warm Pools

AWS Blog: Reduce ML Model Training Job Startup Time

질문 # 15

An ML engineer trained an ML model on Amazon SageMaker to detect automobile accidents from doted- circuit TV footage. The ML engineer used SageMaker Data Wrangler to create a training dataset of images of accidents and non-accidents.

The model performed well during training and validation. However, the model is underperforming in production because of variations in the quality of the images from various cameras.

Which solution will improve the model's accuracy in the LEAST amount of time?

- A. Collect more images from all the cameras. Use Data Wrangler to prepare a new training dataset.
- **B. Recreate the training dataset by using the Data Wrangler corrupt image transform. Specify the impulse noise option.**
- C. Recreate the training dataset by using the Data Wrangler enhance image contrast transform. Specify the Gamma contrast option.
- D. Recreate the training dataset by using the Data Wrangler resize image transform. Crop all images to the same size.

정답: B

설명:

The model is underperforming in production due to variations in image quality from different cameras. Using the corrupt image transform with the impulse noise option in SageMaker Data Wrangler simulates real-world noise and variations in the training dataset. This approach helps the model become more robust to inconsistencies in image quality, improving its accuracy in production without the need to collect and process new data, thereby saving time.

질문 # 16

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