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Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q78-Q83):

NEW QUESTION # 78

A Machine Learning Specialist is configuring Amazon SageMaker so multiple Data Scientists can access notebooks, train models, and deploy endpoints. To ensure the best operational performance, the Specialist needs to be able to track how often the Scientists are deploying models, GPU and CPU utilization on the deployed SageMaker endpoints, and all errors that are generated when an endpoint is invoked.

Which services are integrated with Amazon SageMaker to track this information? (Select TWO.)

- A. AWS Health
- B. AWS CloudTrail
- C. Amazon CloudWatch
- D. AWS Config
- E. AWS Trusted Advisor

Answer: B,C

Explanation:

Explanation

The services that are integrated with Amazon SageMaker to track the information that the Machine Learning Specialist needs are AWS CloudTrail and Amazon CloudWatch. AWS CloudTrail is a service that records the API calls and events for AWS services, including Amazon SageMaker. AWS CloudTrail can track the actions performed by the Data Scientists, such as creating notebooks, training models, and deploying endpoints. AWS CloudTrail can also provide information such as the identity of the user, the time of the action, the parameters used, and the response elements returned. AWS CloudTrail can help the Machine Learning Specialist to monitor the usage and activity of Amazon SageMaker, as well as to audit and troubleshoot any issues1 Amazon CloudWatch is a service that collects and analyzes the metrics and logs for AWS services, including Amazon SageMaker. Amazon CloudWatch can track the performance and utilization of the Amazon SageMaker endpoints, such as the CPU and GPU utilization, the inference latency, the number of invocations, etc. Amazon CloudWatch can also track the errors and alarms that are generated when an endpoint is invoked, such as the model errors, the throttling errors, the HTTP errors, etc. Amazon CloudWatch can help the Machine Learning Specialist to optimize the operational performance and reliability of Amazon SageMaker, as well as to set up notifications and actions based on the metrics and logs

NEW QUESTION # 79

A data scientist stores financial datasets in Amazon S3. The data scientist uses Amazon Athena to query the datasets by using SQL. The data scientist uses Amazon SageMaker to deploy a machine learning (ML) model. The data scientist wants to obtain inferences from the model at the SageMaker endpoint. However, when the data ntist attempts to invoke the SageMaker endpoint, the data scientist receives SOL statement failures. The data scientist's 1AM user is currently unable to invoke the SageMaker endpoint. Which combination of actions will give the data scientist's 1AM user the ability to invoke the SageMaker endpoint? (Select THREE.)

- A. Include an inline policy for the data scientist's 1AM user that allows SageMaker to read S3 objects
- B. Include a policy statement for the data scientist's 1AM user that allows the 1AM user to perform the sagemaker:InvokeEndpoint action,
- C. Perform a user remapping in SageMaker to map the 1AM user to another 1AM user that is on the hosted endpoint.
- D. Include a policy statement for the data scientist's 1AM user that allows the 1AM user to perform the sagemakerGetRecord action.
- E. Include the SQL statement "USING EXTERNAL FUNCTION ml_function_name" in the Athena SQL query.
- F. Attach the AmazonAthenaFullAccess AWS managed policy to the user identity.

Answer: A,B,E

Explanation:

The correct combination of actions to enable the data scientist's IAM user to invoke the SageMaker endpoint is B, C, and E, because they ensure that the IAM user has the necessary permissions, access, and syntax to query the ML model from Athena. These actions have the following benefits:

* B: Including a policy statement for the IAM user that allows the sagemaker:InvokeEndpoint action grants the IAM user the permission to call the SageMaker Runtime InvokeEndpoint API, which is used to get inferences from the model hosted at the endpoint1.

* C: Including an inline policy for the IAM user that allows SageMaker to read S3 objects enables the IAM user to access the data stored in S3, which is the source of the Athena queries2.

* E: Including the SQL statement "USING EXTERNAL FUNCTION ml_function_name" in the Athena SQL query allows the IAM user to invoke the ML model as an external function from Athena, which is a feature that enables querying ML models from SQL statements3.

The other options are not correct or necessary, because they have the following drawbacks:

* A: Attaching the AmazonAthenaFullAccess AWS managed policy to the user identity is not sufficient, because it does not grant the IAM user the permission to invoke the SageMaker endpoint, which is required to query the ML model4.

* D: Including a policy statement for the IAM user that allows the IAM user to perform the sagemaker:

GetRecord action is not relevant, because this action is used to retrieve a single record from a feature group, which is not the case in this scenario5.

* F: Performing a user remapping in SageMaker to map the IAM user to another IAM user that is on the hosted endpoint is not applicable, because this feature is only available for multi-model endpoints, which are not used in this scenario.

References:

* 1: InvokeEndpoint - Amazon SageMaker

* 2: Querying Data in Amazon S3 from Amazon Athena - Amazon Athena

* 3: Querying machine learning models from Amazon Athena using Amazon SageMaker | AWS Machine Learning Blog

* 4: AmazonAthenaFullAccess - AWS Identity and Access Management

* 5: GetRecord - Amazon SageMaker Feature Store Runtime

* : [Invoke a Multi-Model Endpoint - Amazon SageMaker]

NEW QUESTION # 80

A machine learning (ML) engineer is using Amazon SageMaker automatic model tuning (AMT) to optimize a model's hyperparameters. The ML engineer notices that the tuning jobs take a long time to run. The tuning jobs continue even when the jobs are not significantly improving against the objective metric.

The ML engineer needs the training jobs to optimize the hyperparameters more quickly. How should the ML engineer configure the SageMaker AMT data types to meet these requirements?

- A. Set ParameterRanges to the narrow range inferred from previous hyperparameter jobs.
- B. Set RetryStrategy to a value of 1.
- C. Set Strategy to the Bayesian value.
- D. Set TrainingJobEarlyStoppingType to the AUTO value.

Answer: D

Explanation:

SageMaker's TrainingJobEarlyStoppingType set to AUTO stops training jobs early when they no longer improve the objective metric, significantly reducing tuning job durations.

From AWS documentation:

"You can use early stopping to terminate training jobs that are unlikely to result in a better objective metric than previously completed jobs. This can reduce tuning costs and duration."

- AWS SageMaker Automatic Model Tuning documentation

NEW QUESTION # 81

A retail company wants to update its customer support system. The company wants to implement automatic routing of customer claims to different queues to prioritize the claims by category.

Currently, an operator manually performs the category assignment and routing. After the operator classifies and routes the claim, the company stores the claim's record in a central database. The claim's record includes the claim's category.

The company has no data science team or experience in the field of machine learning (ML). The company's small development team needs a solution that requires no ML expertise.

Which solution meets these requirements?

- A. Export the database to a .csv file with two columns: claim_label and claim_text. Use Amazon Comprehend custom classification and the .csv file to train the custom classifier. Develop a service in the application to use the Amazon Comprehend API to process incoming claims, predict the labels, and route the claims to the appropriate queue.
- B. Use Amazon Textract to process the database and automatically detect two columns: claim_label and claim_text. Use Amazon Comprehend custom classification and the extracted information to train the custom classifier. Develop a service in the application to use the Amazon Comprehend API to process incoming claims, predict the labels, and route the claims to the appropriate queue.
- C. Export the database to a .csv file with two columns: claim_label and claim_text. Use the Amazon SageMaker Object2Vec

algorithm and the .csv file to train a model. Use SageMaker to deploy the model to an inference endpoint. Develop a service in the application to use the inference endpoint to process incoming claims, predict the labels, and route the claims to the appropriate queue.

- D. Export the database to a .csv file with one column: claim_text. Use the Amazon SageMaker Latent Dirichlet Allocation (LDA) algorithm and the .csv file to train a model. Use the LDA algorithm to detect labels automatically. Use SageMaker to deploy the model to an inference endpoint. Develop a service in the application to use the inference endpoint to process incoming claims, predict the labels, and route the claims to the appropriate queue.

Answer: A

NEW QUESTION # 82

A Machine Learning Specialist has completed a proof of concept for a company using a small data sample, and now the Specialist is ready to implement an end-to-end solution in AWS using Amazon SageMaker. The historical training data is stored in Amazon RDS.

Which approach should the Specialist use for training a model using that data?

- A. Move the data to Amazon ElastiCache using AWS DMS and set up a connection within the notebook to pull data in for fast access.
- B. Move the data to Amazon DynamoDB and set up a connection to DynamoDB within the notebook to pull data in.
- C. Push the data from Microsoft SQL Server to Amazon S3 using an AWS Data Pipeline and provide the S3 location within the notebook.
- D. Write a direct connection to the SQL database within the notebook and pull data in

Answer: C

NEW QUESTION # 83

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