## Congratulations! You passed!

Grade received 100%

Latest Submission Grade 100% **To pass** 78% or higher

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<ul> <li>True or False: AWS Lake Formation is a centralized repository, such as a data lake, that stores struent unstructured data at any scale.</li> <li>True</li> </ul>	ictured and 1/1 point
Correct AWS Lake Formation is a service that automates many of the manual steps that are needed lakes. The steps include collecting, cleansing, moving, and cataloging data. The steps also securely making that data available for deriving insights. For more information, see the Internation Video in week 2.	include
<ul> <li>What is the structure of the AWS Glue Metadata Catalog?</li> <li>The AWS Glue Metadata Catalog consists of file systems or databases for any applications that granular updates and access to raw, unformatted, block-level storage.</li> <li>The AWS Glue Metadata Catalog is the storage that is associated with automated database be active database snapshots. It consists of the General Purpose SSD, Provisioned IOPS SSD, The Optimized HDD, and Cold HDD volume types.</li> <li>The AWS Glue Metadata Catalog contains buckets with different types of storage options. AW Metadata Catalog stores data as objects in these buckets.</li> <li>The AWS Glue Metadata Catalog consists of tables. Each table has a schema, which outlines to a table, including columns, data type definitions, and more. The tables are organized into log that are called databases.</li> <li>Correct</li> <li>The AWS Glue Metadata Catalog is a central repository that contains a collection of tables to organized into databases. A table in the AWS Glue Data Catalog consists of the names of columns, partition information, and other metadata about a base dataset. For more see the AWS Glue Data Catalog video in week 2.</li> </ul>	ackups and any roughput  S Glue the structure of gical groups  hat are lumns, data
<ul> <li>True or False: Customers can use Amazon API Gateway to ingest real-time data in a RESTful manner creation of an HTTP-based API, which acts as the front door or interface to ingestion logic or data the backend.</li> <li>True</li> <li>False</li> <li>Correct         <ul> <li>Amazon API Gateway is a service that customers can use to host APIs that act as the front do interface to a backend. The backend could be an application running on an Amazon Elastic Cloud (Amazon EC2) instance, an AWS Lambda function, or even another AWS service, such Kinesis. For more information, see the AWS Services Used for Data Movement video in week</li> </ul> </li> </ul>	oor or an Compute n as Amazon
<ul> <li>4. Which statement about AWS Lake Formation is true?</li> <li>AWS Lake Formation deploys, operates, and scales clusters in the AWS Cloud</li> <li>AWS Lake Formation ingests, cleanses, and transforms the structured and organized data.</li> <li>AWS Lake Formation runs big data frameworks, such as Apache Hadoop.</li> <li>AWS Lake Formation registers the Amazon Simple Storage Service (Amazon S3) buckets and the data lake will reside.</li> <li>Correct         AWS Lake Formation makes it easier for customers to build, secure, and manage data lakes information, see the <i>Introduction to AWS Lake Formation</i> reading in week 2.     </li> </ul>	
<ul> <li>Which service is commonly used for real-time data processing when Amazon Kinesis Data Streamingestion?</li> <li>Amazon EMR</li> <li>Amazon Athena</li> <li>Amazon Kinesis Data Analytics</li> <li>AWS Glue Jobs</li> <li>Correct  Amazon Kinesis Data Analytics processes data streams and generates real-time dashboards information, see the AWS Services for Analytics video.</li> </ul>	
<ul> <li>6. Apache Hadoop is an open-source framework that is used to efficiently store and process large desolutions architect is working for a company that currently uses Apache Hadoop on-premises for jobs. The company wants to use AWS for these jobs, but they also want to continue using the same Which service should the solutions architect choose for this use case?</li> <li>AWS Lambda</li> <li>Amazon OpenSearch Service</li> <li>Amazon EMR</li> <li>Amazon Kinesis Data Analytics</li> <li>Correct</li> <li>Amazon EMR is a managed cluster platform that simplifies running big data frameworks (sur Hadoop and Apache Spark) on AWS to process and analyze large amounts of data. For more see the AWS Services for Data Processing video in week 2.</li> </ul>	data processing ne technology.
<ul> <li>7. A team of machine learning (ML) experts are working for a company. The company wants to use the data lake to train an ML model that they create. The company wants the most control that they cannot and the environment that it is trained in. Which AWS ML approach should the team take?</li> <li>Create an AWS Lambda function with the training logic in the handler, and run the training be event.</li> <li>Launch an Amazon Elastic Compute Cloud (Amazon EC2) instance by using an AWS Deep Lea Machine Image (AMI) to host the application that will train the model.</li> <li>Launch an Amazon Elastic Compute Cloud (Amazon EC2) instance and run Amazon SageMake the model.</li> <li>Use a pretrained model from an AWS service, such as Amazon Rekognition.</li> <li>Correct  The team of ML experts will probably use EC2 instances for their compute power on AWS. The team of ML experts will probably use EC2 instances for their compute power on AWS. The team of ML experts will probably use EC2 instances for their compute power on AWS. The team of ML experts will probably use EC2 instances for their compute power on AWS. The team of ML experts will probably use EC2 instances for their compute power on AWS. The team of ML experts will probably use EC2 instances for their compute power on AWS. The team of ML experts will probably use EC2 instances for their compute power on AWS. The team of ML experts will probably use EC2 instances for their compute power on AWS. The team of ML experts will probably use EC2 instances for their compute power on AWS. The team of ML experts will probably use EC2 instances for their compute power on AWS. The team of ML experts will probably use EC2 instances for their compute power on AWS. The team of ML experts will probably use EC2 instances for their compute power on AWS. The team of ML experts will probably use EC2 instances for their compute power on AWS. The team of ML experts will probably use EC2 instances for their compute power on AWS. The team of ML experts will probably use EC2 instanc</li></ul>	an have over this ased on an arning Amazon aer on it to train they can launch ailding and
<ul> <li>8. A solutions architect needs to process and analyze data as it is ingested into a data lake in real tinget timely insights about the streaming data. Which service should the solutions architect use for Amazon API Gateway  Amazon EMR  Amazon Kinesis  AWS Lambda  Correct  With Amazon Kinesis, the solutions architect can collect, process, and analyze real-time, staget timely insights and react quickly to new information. For more information, see the Data reading.</li> </ul>	reaming data to
9. Which services can query data that is needed to build reports? (Choose TWO.)  ✓ Amazon Athena  ✓ Correct  Amazon Athena is an interactive query service that is designed to analyze data directly in A Storage Service (Amazon S3) by using standard Structured Query Language (SQL). For more see the EMR, Glue Jobs, Lambda, Kinesis Analytics, RedShift reading.  □ AWS Lambda □ Amazon Glue ✓ Amazon Redshift  ✓ Correct  With Amazon Redshift, companies can run high performance queries on petabytes of structured.	e information,

build powerful reports and dashboards. For more information, see the EMR, Glue Jobs, Lambda, Kinesis

Analytics, RedShift reading.

Amazon Elastic Compute Cloud