Bonus questions

Graded Quiz • 1h

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	received 100% Grade 100% higher 1. A company will host a static website within an Amazon S3 bucket. The website will serve millions of users gand the company wants to minimize data transfer costs. What should a solutions architect do to ensure costs.		
	kept to a minimum? Implement an AWS Auto Scaling group for the website to ensure it grows with use. Use Cross-Region Replication to copy the website to an additional S3 bucket in a different AWS Region. Move the website to large compute-optimized Amazon EC2 instances with on-demand pricing. Create an Amazon CloudFront distribution, with the S3 bucket as the origin server.		
	Correct The use of CloudFront can be more cost-effective if your users access your objects frequently. At high usage, the cost for CloudFront data transfer to the internet is lower than the cost for Amazon S3 data transfer to the internet. In addition, downloads are faster with CloudFront than with Amazon S3 alon because your objects are stored closer to your users. For more information about how to use CloudFront Amazon S3, see	e	
	Using Various Origins with CloudFront Distributions. A solutions architect needs to design a secure environment for AWS resources that are being deployed to A EC2 instances in a VPC. The solution should support a three-tier architecture that consists of web servers, application servers, and a database cluster. The VPC needs to allow resources in the web tier to be accessible.	ole from	
	the internet with only the HTTPS protocol. Which combination of actions would meet these requirements? TWO.) Attach Amazon API Gateway to the VPC. Create private subnets for the web, application, and database. Attach an internet gateway to the VPC. Create public subnets for the web tier. Create private subnets for application and database tiers.	tiers.	
	 ✓ Correct Only the web tier needs to be in public subnets. The application and database tiers should be in private subnets. For more information about public and private subnets, see How Amazon VPC Works.		
	 □ Create a web server security group that allows all traffic from the internet. Create an application server security group that allows requests from only the Amazon API Gateway on the application port. Create database cluster security group that allows TCP connections from the application security group on the database port only. ✓ Create a web server security group that allows HTTPS requests from the internet. Create an application server security group that allows requests from the web security group only. Create a database cluster 	e a ne	
	Security group that allows TCP connections from the application security group on the database port of the content of the c	traffic tal	
	Control Traffic to Resources Using Security Groups. A solutions architect notices an abnormal amount of network traffic coming from an Amazon EC2 instance. traffic is determined to be malicious, and the destination needs to be determined. What tool can the solution architect use to identify the destination of the malicious network traffic?		
	 Turn on AWS CloudTrail and filter the logs Turn on VPC Flow Logs and filter the logs Consult the AWS Health Dashboard Filter the logs from Amazon CloudWatch 		
	✓ Correct VPC Flow Logs is a feature that gives you the ability to capture information about the IP traffic that go and from network interfaces in a VPC. For more information about VPC Flow Logs basics, see Logging IP Traffic Using VPC Flow Logs. ∠²	oes to	
	 A SysOps administrator wants to automate the deployment of new SSL/TLS certificates to web servers. The administrator wants a centralized way to keep track and manage the deployed certificates. Which AWS serve the administrator use to meet these requirements? AWS Key Management Service (AWS KMS) Run Command, a capability of AWS Systems Manager 	-, -, -, -, -, -, -, -, -, -, -, -, -, -	
	 AWS Certificate Manager (ACM) Parameter Store, a capability of AWS Systems Manager Correct ACM is a service that gives you the ability to provision, manage, and deploy public and private SSL/TL certificates for use with AWS services and your internal connected resources. SSL/TLS certificates are to secure network communications and establish the identity of websites over the internet and resour private networks. ACM removes the time-consuming manual process of purchasing, uploading, and 	used urces	
	renewing SSL/TLS certificates. For more information about ACM, see AWS Certificate Manager.		
	sizes. The data must be highly available and protected from being accidentally deleted. What solution meer requirements and is the MOST cost-effective? Deploy an Amazon S3 bucket and activate Cross-Region Replication. Deploy an Amazon DynamoDB table and activate global tables. Deploy a database by using Amazon RDS and configure a Multi-AZ deployment for that database.	ets the	
	 Deploy an Amazon S3 bucket and enable object versioning. Correct Versioning-enabled buckets can help you recover objects from accidental deletion or overwrite. For example, if you delete an object, Amazon S3 inserts a delete marker instead of removing the object permanently. The delete marker becomes the current object version. If you overwrite an object, you new object version in the bucket. You can restore the previous version. For more information about oversioning in Amazon S3, see 		
	versioning in Amazon S3, see Using Versioning in S3 Buckets. 6. A company is migrating its on-premises application to AWS and refactoring the application's design. The definition of the following the same of the following	ne	
	requests, and a message-queuing service that addresses decoupling the application. A solutions architect I been informed that a key aspect of the application is that requests are processed in the order in which they received. Which AWS service should the solutions architect use to decouple the application? Amazon Simple Queue Service (Amazon SQS) FIFO queue Amazon Simple Queue Service (Amazon SQS) standard queue Amazon Simple Notification Service (Amazon SNS)	has	
	 Amazon Simple Notification Service (Amazon SNS) Amazon Kinesis ✓ correct Amazon SQS FIFO queues process messages in the order they are received. For more information about Amazon SQS queue types, see Amazon SQS Features.	out	
	7. A gaming company is experiencing exponential growth. On multiple occasions, customers have been unab access resources. To keep up with the increased demand, management is considering deploying a cloud-based solution. The company wants a solution that can match on-premises resilience of multiple data centers are robust enough to withstand the increased growth activity. Which configuration should a solutions architect.	ased d	
	 implement to meet these requirements? A VPC that is configured with an Elastic Load Balancing (ELB) Network Load Balancer that targets an Amazon EC2 Auto Scaling group consisting of Amazon EC2 instances that span two Availability Zones. A VPC that is configured with an Elastic Load Balancing (ELB) Application Load Balancer that targets an Amazon EC2 Auto Scaling group consisting of Amazon EC2 instances in one Availability Zone. Multiple Amazon EC2 instances that are configured within peered VPCs across two Availability Zones. 		
	 Multiple Amazon EC2 instances that are configured within peered VPCs across two Availability Zones. A VPC that is configured with an Elastic Load Balancing (ELB) Application Load Balancer that targets are Amazon EC2 Auto Scaling group consisting of Amazon EC2 instances that span two AWS Regions. Correct The ELB Network Load Balancer is capable of handling millions of requests per second while maintain ultra-low latency. Combined with an Auto Scaling group, the network ELB can handle volatile traffic patterns. Setting the Auto Scaling group targets across multiple AZs will make this solution highly 		
	patterns. Setting the Auto Scaling group targets across multiple AZs will make this solution highly available. For more information about Auto Scaling, see Attach a Load Balancer to Your Auto Scaling Group. For more information about planning your netwo topology for high availability, see REL02-BP01 Use Highly Available Network Connectivity for Your Workload Public Endpoints.	ork	
	 A company is deploying a production portal application on AWS. The database tier runs on a MySQL database company requires a highly available database solution that maximizes ease of management. How can the company meet these requirements? Deploy the database on multiple Amazon EC2 instances that are backed by Amazon Elastic Block Store (Amazon EBS) across multiple Availability Zones. Schedule periodic EBS snapshots. 		
	 Use Amazon RDS with a Single-AZ deployment. Schedule periodic database snapshots. Use Amazon RDS with a Multi-AZ deployment. Schedule periodic database snapshots. Use Amazon DynamoDB with a DynamoDB Accelerator (DAX) cluster. Create periodic on-demand backs Correct Amazon RDS with a Multi-AZ deployment provides automatic failover with minimum manual intervent 		
	and is highly available. For more information about Multi-AZ deployment, see Multi-AZ Deployments for High Availability. Multi-AZ Deployments for High Availability. A company requires operating system permission on a relational database server. What should a solutions architect suggest as a configuration for a highly available database architecture?	1/1 point	
	 Multiple Amazon EC2 instances in a database replication configuration that uses two Availability Zones A database installed on a single Amazon EC2 instance in an Availability Zone Amazon RDS in a Multi-AZ configuration with Provisioned IOPS Multiple Amazon EC2 instances in a replication configuration that uses a placement group 	S	
	 Correct EC2 instances will allow operating system access, and spanning two Availability Zones ensures high availability. For more information on database best practices, see Web Application Hosting in the AWS Cloud.		
	10. A solutions architect must create a disaster recovery (DR) solution for a company's business-critical application. The DR site must reside in a different AWS Region than the primary site. The solution requires a recovery post-objective (RPO) in seconds and a recovery time objective (RTO) in minutes. The solution also requires the deployment of a completely functional but scaled-down version of the applications. Which DR strategy will these requirements? Multi-site active-active	pint	
	 Backup and restore Pilot light Warm standby Correct With warm standby fully working at low capacity, all components run at a low capacity. The RPO is in secon 		
	ds, and the RTO is in minutes. For more information about the various DR strategies, see Plan for Disaster Recovery (DR). 11. A financial services company is migrating its multi-tier web application to AWS. The application architectur consists of a fleet of web servers, application servers, and an Oracle database. The company must have full	, .	
	control over the database's underlying operating system. The database must be highly available. Which appendix should a solutions architect use for the database tier to meet these requirements? Migrate the database to an Amazon RDS for Oracle DB Single-AZ DB instance. Migrate the database to an Amazon RDS for Oracle Multi-AZ DB instance. Migrate to Amazon EC2 instances in two Availability Zones. Install Oracle and configure the instances to	proach	
	 operate as a cluster. Migrate to Amazon EC2 instances in a single Availability Zone. Install Oracle and configure the instance operate as a cluster. Correct This solution provides the company with full control of the database operating system. The solution provides high availability. For more information about high availability, see 		
	Amazon EC2 for Oracle. 12. A company used Amazon EC2 Spot Instances for a demonstration that is now complete. A solutions architect remove the Spot Instances to stop them from incurring cost. What should the solutions architect do to mee requirement?	, - , - , - , - , - , - , - , - , - , -	
	 Cancel the Spot request. Terminate the Spot Instances. Cancel the Spot request only. Terminate the Spot Instances only. Terminate the Spot Instances. Cancel the Spot request. Correct		
	To remove the Spot Instances, the appropriate steps are to cancel the Spot request and then to termi the Spot Instances. For more information about the termination of Spot Instances, see Terminate a Spot Instance.		
	 13. A company is deploying an environment for a new data processing application. The application will be freq accessed by 20 different departments across the globe seeking to run analytics. The company plans to char each department for the cost of that department's access. Which solution will meet these requirements wit LEAST effort? Amazon Aurora with global databases. Each department will query a database in a different Region, an Region is tagged in the billing console. Amazon RDS for PostgreSOL, with read replicas for each department. Each department will query the results of the partment of the partment of the partment of the partment will query the results of the partment. 	rge th the nd the	
	 Amazon RDS for PostgreSQL, with read replicas for each department. Each department will query the replica tagged for their department in the billing console. Amazon Redshift, with clusters set up for each department. Each department will query the cluster tag for their department in the billing console. Amazon Athena with workgroups set up for each department. Each department will query through the workgroup tagged for their department in the billing console. 	gged	
	Athena gives you the ability to make data queries in Amazon S3. Workgroups are purpose-built for co allocation. For more information about Athena workgroups, see <u>Using Workgroups to Control Query Access and Costs.</u>		
	14. After reviewing the cost optimization checks in AWS Trusted Advisor, a team finds that it has 10,000 Amazor Elastic Block Store (Amazon EBS) snapshots in its account that are more than 30 days old. The team has determined that it needs to implement better governance for the lifecycle of its resources. Which actions shall the team take to automate the lifecycle management of the EBS snapshots with the LEAST effort? (Select T Create and schedule a backup plan with AWS Backup. ○ Correct	hould	
	Correct. The team wants to automate the lifecycle management of EBS snapshots. AWS Backup is a centralized backup service that automates backup processes for application data across AWS service the AWS Cloud, helping you meet business and regulatory backup compliance requirements. AWS Baprovides a central place where you can configure and audit the AWS resources you want to back up, automate backup scheduling, set retention policies, and monitor all recent backup and restore activities For more information about AWS Backup, see What Is AWS Backup?	ackup	
	 Copy the EBS snapshots to Amazon S3, and then create lifecycle configurations in the S3 bucket. ✓ Use Amazon Data Lifecycle Manager. ✓ Correct Correct. With Amazon Data Lifecycle Manager, you can manage the lifecycle of your AWS resources through lifecycle policies. Lifecycle policies automate operations on specified resources. The team 		
	requires lifecycle management for EBS snapshots. Amazon Data Lifecycle Manager supports EBS voluand snapshots. For more information about Amazon Data Lifecycle Manager, see Amazon Data Lifecycle Manager. Use a scheduled event in Amazon EventBridge and invoke AWS Step Functions to manage the snapsho Schedule and run backups in AWS Systems Manager.		
	15. A company is using an Amazon S3 bucket to store archived data for audits. The company needs long-term s for the data. The data is rarely accessed and must be available for retrieval the next business day. After a quereview, the company wants to reduce the storage cost for the S3 bucket. A solutions architect must recommand the most cost-effective solution to store the archived data. Which solution will meet these requirements? Store the data on an Amazon EC2 instance that uses Amazon Elastic Block Store (Amazon EBS).	uarterly	
	 Store the data on an Amazon EC2 instance that uses Amazon Elastic Block Store (Amazon EBS). Store the data in S3 Glacier Flexible Retrieval. Use an S3 Lifecycle configuration rule to move the data to S3 Standard-Infrequent Access (S3 Standard Store the data in another S3 bucket in a different AWS Region. Correct Of these options, S3 Glacier Flexible Retrieval is the most cost-effective solution. S3 Glacier Flexible 	I-IA).	
	Of these options, S3 Glacier Flexible Retrieval is the most cost-effective solution. S3 Glacier Flexible Retrieval is an ideal fit for archival data that does not need to be frequently accessed or modified. For more information about S3 Glacier Flexible Retrieval, see What Is Amazon S3 Glacier? For more information about S3 Glacier retrieval options, see Retrieving S3 Glacier Archives.	r	
	16. A prediction process requires access to a trained model that is stored in an Amazon S3 bucket. The process few seconds to process an image and make a prediction. The process is not overly resource-intensive, does require any specialized hardware, and takes less than 512 MB of memory to run. What is the MOST cost-effection compute solution for this use case?	s not	
	 Amazon Elastic Container Service (Amazon ECS) Amazon EC2 Spot Instances AWS Elastic Beanstalk AWS Lambda functions ✓ Correct 		
	With Lambda functions, you can run code without provisioning or managing servers. You pay only for compute time that you consume. There is no charge when your code is not running. Therefore, Lamb the most cost-effective solution for this use case. For more information about Lambda, see What Is AWS Lambda? □		
	17. A hospital is migrating from another cloud provider to AWS and wants to modernize as they migrate. The has containerized applications that run on tablets. During spikes caused by increases in patient visits, the communications from the applications to the central database occasionally fail. As a result, the hospital cu has the applications try to write to the central database once. If that write fails, the application writes to a dedicated application PostgreSQL database run by the hospital IT team on premises. Each of the PostgreSQ databases then sends batch information to the central database. The hospital is asking for recommendation migrating or refactoring the database write process to lower operational overhead. What should the solutions.	orrently QL ons on	
	architect recommend? (Select TWO.) ☐ Migrate the containerized applications to AWS Fargate. ☑ Migrate the local databases to Amazon Aurora Serverless PostgreSQL-Compatible Edition. ☑ Correct Correct. You can use PostgreSQL as a kind of messaging service (holding all of the data until the batch	h job	
	runs), even though you can handle that task better with a queuing service. Moving to Aurora Serverle will lower overhead for running the database and is a valid solution. For more information about Auro Serverless, see Amazon Aurora Serverless. Migrate the PostgreSQL databases to an Amazon RDS instance with a read replica that replaces each of local databases.	ess ora	
	Refactor the applications to use Amazon Simple Queue Service (Amazon SQS) and eliminate the local PostgreSQL databases. Correct Correct. The hospital can decouple the messaging aspect of the application and eliminate the databate (which are effectively a workaround messaging service). For more information about how Amazon SQ works, see		
	Create a Queue (Console). C Refactor the central database to add an Amazon ElastiCache lazy loading cache in front of the database 18. A company uses Amazon EC2 instances in a test environment. The company has optimized the instances for	or their 1/1 point	
	 18. A company uses Amazon EC2 instances in a test environment. The company has optimized the instances for current workload. The company uses the instances only during business hours. The company uses Comput Savings Plans and Spot Instances. The company must retain control over the compute resources. A solution architect must recommend a solution to reduce costs associated with the EC2 instances in the test environe Which solution will meet these requirements? Use AWS Compute Optimizer and change the instance type or size based on the recommendations. Create a time-based Amazon CloudWatch alarm action to start and stop the instances. 	te ns	
	 Create a time-based Amazon CloudWatch alarm action to start and stop the instances. Use Reserved Instances in addition to the Compute Savings Plan and Spot Instances. Switch from EC2 instances to AWS Lambda functions to optimize the runtime environment. Correct A CloudWatch alarm action would give the company the ability to reduce the costs by turning off the instances during evenings and weekends. For more information about CloudWatch alarm actions, see 		
	Create Alarms to Stop, Terminate, Reboot, or Recover an EC2 Instance. 19. A company is running its application in a single Region on Amazon EC2 with Amazon Elastic Block Store (Ar EBS) and Amazon S3 as part of the storage design. What should be done to reduce data transfer costs?		
	 Create a copy of the compute environment in another AWS Region. Convert the application to run on Lambda@Edge. Create an Amazon CloudFront distribution with Amazon S3 as the origin. Replicate Amazon S3 data to buckets in AWS Regions closer to the requester. Correct		
	The charges for data transfer from CloudFront to the internet are lower than charges for data transfer Amazon S3 to the internet. Additionally, there is no charge for data transfer from an AWS origin such Amazon S3 to any CloudFront edge location. Therefore, this solution would reduce data transfer cost more information about CloudFront pricing, see Amazon CloudFront Pricing.	as	