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problems returning requests within the SLA as defined by your business. The application maintains its state in a DynamoDB table, but the data tier is properly provisioned and responses are consistently fast. How can you best resolve the issue of the application responses not meeting your SLA?

- A. Add another cc2 8xlarge application instance, and put both behind an Elastic Load Balancer
- B. Move the cc2 8xlarge to the same Availability Zone as the DynamoDB table
- C. Cache the database responses in ElastiCache for more rapid access
- D. Move the database from DynamoDB to RDS MySQL in scale-out read-replica configuration

Correct Answer: B

Explanation:

<http://aws.amazon.com/elasticmapreduce/faqs/>

QUESTION 13

You need to design a VPC for a web-application consisting of an Elastic Load Balancer (ELB), a fleet of web/application servers, and an RDS database. The entire Infrastructure must be distributed over 2 availability zones. Which VPC configuration works while assuring the database is not available from the Internet?

- A. One public subnet for ELB, one public subnet for the web-servers, and one private subnet for the database
- B. One public subnet for ELB, two private subnets for the web-servers, two private subnets for RDS
- C. Two public subnets for ELB, two private subnets for the web-servers, and two private subnets for RDS
- D. Two public subnets for ELB, two public subnets for the web-servers, and two public subnets for RDS

Correct Answer: A

QUESTION 14

You have a server with a 500GB Amazon EBS data volume. The volume is 80% full. You need to back up the volume at regular intervals and be able to re-create the volume in a new Availability Zone in the shortest time possible. All applications using the volume can be paused for a period of a few minutes with no discernible user impact. Which of the following backup methods will best fulfill your requirements?

- A. Take periodic snapshots of the EBS volume
- B. Use a third party Incremental backup application to back up to Amazon Glacier
- C. Periodically back up all data to a single compressed archive and archive to Amazon S3 using a parallelized multi-part upload
- D. Create another EBS volume in the second Availability Zone, attach it to the Amazon EC2 instance, and use a disk manager to mirror the two disks

Correct Answer: D

Explanation:

<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-creating-snapshot.html>

QUESTION 15

You are managing a legacy application inside VPC with hard-coded IP addresses in its configuration. Which two mechanisms will allow the application to failover to new instances without the need for reconfiguration? Choose 2 answers

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- A. Create an ELB to reroute traffic to a failover instance
- B. Create a secondary ENI that can be moved to a failover instance
- C. Use Route53 health checks to fail traffic over to a failover instance
- D. Assign a secondary private IP address to the primary ENI that can be moved to a failover instance

Correct Answer: AD

QUESTION 16

You have decided to change the Instance type for instances running in your application tier that are using Auto Scaling. In which area below would you change the instance type definition?

- A. Auto Scaling launch configuration
- B. Auto Scaling group
- C. Auto Scaling policy
- D. Auto Scaling tags

Correct Answer: A

Explanation:

<http://docs.aws.amazon.com/AutoScaling/latest/DeveloperGuide/WhatIsAutoScaling.html>

QUESTION 17

You are designing a system that has a Bastion host. This component needs to be highly available without human intervention. Which of the following approaches would you select?

- A. Run the bastion on two instances one in each AZ
- B. Run the bastion on an active Instance in one AZ and have an AMI ready to boot up in the event of failure
- C. Configure the bastion instance in an Auto Scaling group Specify the Auto Scaling group to include multiple AZs but have a min-size of 1 and max-size of 1
- D. Configure an ELB in front of the bastion instance

Correct Answer: C

QUESTION 18

You have set up Individual AWS accounts for each project. You have been asked to make sure your AWS Infrastructure costs do not exceed the budget set per project for each month. Which of the following approaches can help ensure that you do not exceed the budget each month?

- A. Consolidate your accounts so you have a single bill for all accounts and projects.
- B. Set up auto scaling with CloudWatch alarms using SNS to notify you when you are running too many Instances in a given account.
- C. Set up CloudWatch billing alerts for all AWS resources used by each project, with a notification occurring when the amount for each resource tagged to a particular project matches the budget allocated to the project.
- D. Set up CloudWatch billing alerts for all AWS resources used by each account, with email notifications when it hits 50%, 80% and 90% of its budgeted monthly spend.

Correct Answer: C

QUESTION 19

Your entire AWS infrastructure lives inside of one Amazon VPC You have an Infrastructure

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monitoring application running on an Amazon instance in Availability Zone (AZ) A of the region, and another application instance running in AZ B. The monitoring application needs to make use of ICMP ping to confirm network reachability of the instance hosting the application. Can you configure the security groups for these instances to only allow the ICMP ping to pass from the monitoring instance to the application instance and nothing else" If so how?

- A. No Two instances in two different AZ's can't talk directly to each other via ICMP ping as that protocol is not allowed across subnet (iebroadcast) boundaries
- B. Yes Both the monitoring instance and the application instance have to be a part of the same security group, and that security group needs to allow inbound ICMP
- C. Yes, The security group for the monitoring instance needs to allow outbound ICMP and the application instance's security group needs to allow Inbound ICMP
- D. Yes, Both the monitoring instance's security group and the application instance's security group need to allow both inbound and outbound ICMP ping packets since ICMP is not a connection-oriented protocol

Correct Answer: D

QUESTION 20

You are running a web-application on AWS consisting of the following components an Elastic Load Balancer (ELB) an Auto-Scaling Group of EC2 instances running Linux/PHP/Apache, and Relational DataBase Service (RDS) MySQL. Which security measures fall into AWS's responsibility?

- A. Protect the EC2 instances against unsolicited access by enforcing the principle of least- privilege access
- B. Protect against IP spoofing or packet sniffing
- C. Assure all communication between EC2 instances and ELB is encrypted
- D. Install latest security patches on ELB, RDS and EC2 instances

Correct Answer: B

QUESTION 21

When assessing an organization s use of AWS API access credentials which of the following three credentials should be evaluated? Choose 3 answers

- A. Key pairs
- B. Console passwords
- C. Access keys
- D. Signing certificates
- E. Security Group memberships

Correct Answer: ACD

Explanation:

http://media.amazonwebservices.com/AWS_Operational_Checklists.pdf

QUESTION 22

You run a web application where web servers on EC2 Instances are In an Auto Scaling group Monitoring over the last 6 months shows that 6 web servers are necessary to handle the minimum load During the day up to 12 servers are needed Five to six days per year, the number of web servers required might go up to 15. What would you recommend to minimize costs while being able to provide hill availability?

- A. 6 Reserved instances (heavy utilization). 6 Reserved instances {medium utilization), rest covered

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by On-Demand instances

- B. 6 Reserved instances (heavy utilization). 6 On-Demand instances, rest covered by Spot Instances
- C. 6 Reserved instances (heavy utilization) 6 Spot instances, rest covered by On-Demand instances
- D. 6 Reserved instances (heavy utilization) 6 Reserved instances (medium utilization) rest covered by Spot instances

Correct Answer: B

QUESTION 23

You have a web application leveraging an Elastic Load Balancer (ELB) In front of the web servers deployed using an Auto Scaling Group Your database is running on Relational Database Service (RDS) The application serves out technical articles and responses to them in general there are more views of an article than there are responses to the article. On occasion, an article on the site becomes extremely popular resulting in significant traffic Increases that causes the site to go down. What could you do to help alleviate the pressure on the infrastructure while maintaining availability during these events? Choose 3 answers

- A. Leverage CloudFront for the delivery of the articles.
- B. Add RDS read-replicas for the read traffic going to your relational database.
- C. Leverage ElastiCache for caching the most frequently used data.
- D. Use SQS to queue up the requests for the technical posts and deliver them out of the queue.
- E. Use Route53 health checks to fail over to an S3 bucket for an error page.

Correct Answer: ACE

QUESTION 24

You are tasked with the migration of a highly trafficked Node JS application to AWS In order to comply with organizational standards Chef recipes must be used to configure the application servers that host this application and to support application lifecycle events. Which deployment option meets these requirements while minimizing administrative burden?

- A. Create a new stack within Opsworks add the appropriate layers to the stack and deploy the application
- B. Create a new application within Elastic Beanstalk and deploy this application to a new environment
- C. Launch a Node JS server from a community AMI and manually deploy the application to the launched EC2 instance
- D. Launch and configure Chef Server on an EC2 instance and leverage the AWS CLI to launch application servers and configure those instances using Chef.

Correct Answer: B

Explanation:

<http://docs.aws.amazon.com/elasticbeanstalk/latest/dg/using-features.deployment.html>

QUESTION 25

You are running a database on an EC2 instance, with the data stored on Elastic Block Store (EBS) for persistence At times throughout the day, you are seeing large variance in the response times of the database queries Looking into the instance with the `iostat` command you see a lot of wait time on the disk volume that the database's data is stored on. What two ways can you improve the performance of the database's storage while maintaining the current persistence of the data? Choose 2 answers

- A. Move to an SSD backed instance
- B. Move the database to an EBS-Optimized Instance

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- C. T Use Provisioned IOPs EBS
- D. Use the ephemeral storage on an m2 4xlarge Instance Instead

Correct Answer: AB

QUESTION 26

What is a placement group?

- A. A collection of Auto Scaling groups in the same Region
- B. Feature that enables EC2 instances to interact with each other via high bandwidth, low latency connections
- C. A collection of Elastic Load Balancers in the same Region or Availability Zone
- D. A collection of authorized Cloud Front edge locations for a distribution

Correct Answer: B

Explanation:

<http://aws.amazon.com/ec2/faqs/>

QUESTION 27

An application that you are managing has EC2 instances & DynamoDB tables deployed to several AWS Regions. In order to monitor the performance of the application globally, you would like to see two graphs: 1) Avg CPU Utilization across all EC2 instances and 2) Number of Throttled Requests for all DynamoDB tables. How can you accomplish this?

- A. Tag your resources with the application name, and select the tag name as the dimension in the CloudWatch Management console to view the respective graphs
- B. Use the CloudWatch CLI tools to pull the respective metrics from each regional endpoint. Aggregate the data offline & store it for graphing in CloudWatch.
- C. Add SNMP traps to each instance and DynamoDB table. Leverage a central monitoring server to capture data from each instance and table. Put the aggregate data into CloudWatch for graphing.
- D. Add a CloudWatch agent to each instance and attach one to each DynamoDB table. When configuring the agent, set the appropriate application name & view the graphs in CloudWatch.

Correct Answer: C

QUESTION 28

You are currently hosting multiple applications in a VPC and have logged numerous port scans coming in from a specific IP address block. Your security team has requested that all access from the offending IP address block be denied for the next 24 hours. Which of the following is the best method to quickly and temporarily deny access from the specified IP address block?

- A. Create an AD policy to modify Windows Firewall settings on all hosts in the VPC to deny access from the IP address block.
- B. Modify the Network ACLs associated with all public subnets in the VPC to deny access from the IP address block.
- C. Add a rule to all of the VPC's Security Groups to deny access from the IP address block.
- D. Modify the Windows Firewall settings on all Amazon Machine Images (AMIs) that your organization uses in that VPC to deny access from the IP address block.

Correct Answer: B

Explanation:

http://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/VPC_SecurityGroups.html

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