

QUESTION 29

Which of the following requires a custom CloudWatch metric to monitor?

- A. Data transfer of an EC2 instance
- B. Disk usage activity of an EC2 instance
- C. Memory Utilization of an EC2 instance
- D. CPU Utilization of an EC2 instance

Correct Answer: C

Explanation:

<http://aws.amazon.com/cloudwatch/>

QUESTION 30

When an EC2 EBS-backed (EBS root) instance is stopped, what happens to the data on any ephemeral store volumes?

- A. Data will be deleted and will no longer be accessible
- B. Data is automatically saved in an EBS volume.
- C. Data is automatically saved as an EBS snapshot
- D. Data is unavailable until the instance is restarted

Correct Answer: D

QUESTION 31

The majority of your Infrastructure is on premises and you have a small footprint on AWS. Your company has decided to roll out a new application that is heavily dependent on low latency connectivity to LDAP for authentication. Your security policy requires minimal changes to the company's existing application user management processes. What option would you implement to successfully launch this application?

- A. Create a second, independent LDAP server in AWS for your application to use for authentication
- B. Establish a VPN connection so your applications can authenticate against your existing on-premises LDAP servers
- C. Establish a VPN connection between your data center and AWS, create a LDAP replica on AWS and configure your application to use the LDAP replica for authentication
- D. Create a second LDAP domain on AWS, establish a VPN connection to establish a trust relationship between your new and existing domains and use the new domain for authentication

Correct Answer: D

Explanation:

<http://msdn.microsoft.com/en-us/library/azure/jj156090.aspx>

QUESTION 32

Your organization's security policy requires that all privileged users either use frequently rotated passwords or one-time access credentials in addition to username/password. Which two of the following options would allow an organization to enforce this policy for AWS users? Choose 2 answers

- A. Configure multi-factor authentication for privileged IAM users
- B. Create IAM users for privileged accounts
- C. Implement identity federation between your organization's Identity provider leveraging the IAM

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Security Token Service

- D. Enable the 1AM single-use password policy option for privileged users

Correct Answer: CD

QUESTION 33

Your application currently leverages AWS Auto Scaling to grow and shrink as load Increases/ decreases and has been performing well Your marketing team expects a steady ramp up in traffic to follow an upcoming campaign that will result in a 20x growth in traffic over 4 weeks Your forecast for the approximate number of Amazon EC2 instances necessary to meet the peak demand is 175. What should you do to avoid potential service disruptions during the ramp up in traffic?

- A. Ensure that you have pre-allocated 175 Elastic IP addresses so that each server will be able to obtain one as it launches
- B. Check the service limits in Trusted Advisor and adjust as necessary so the forecasted count remains within limits.
- C. Change your Auto Scaling configuration to set a desired capacity of 175 prior to the launch of the marketing campaign
- D. Pre-warm your Elastic Load Balancer to match the requests per second anticipated during peak demand prior to the marketing campaign

Correct Answer: D

QUESTION 34

Which of the following are characteristics of Amazon VPC subnets? Choose 2 answers

- A. Each subnet maps to a single Availability Zone
- B. A CIDR block mask of /25 is the smallest range supported
- C. Instances in a private subnet can communicate with the internet only if they have an Elastic IP.
- D. By default, all subnets can route between each other, whether they are private or public
- E. V Each subnet spans at least 2 Availability zones to provide a high-availability environment

Correct Answer: CE

QUESTION 35

You have two Elastic Compute Cloud (EC2) instances inside a Virtual Private Cloud (VPC) in the same Availability Zone (AZ) but in different subnets. One instance is running a database and the other instance an application that will interface with the database. You want to confirm that they can talk to each other for your application to work properly. Which two things do we need to confirm in the VPC settings so that these EC2 instances can communicate inside the VPC? Choose 2 answers

- A. A network ACL that allows communication between the two subnets.
- B. Both instances are the same instance class and using the same Key-pair.
- C. That the default route is set to a NAT instance or internet Gateway (IGW) for them to communicate.
- D. Security groups are set to allow the application host to talk to the database on the right port/protocol.

Correct Answer: AD

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QUESTION 36

You are creating an Auto Scaling group whose Instances need to insert a custom metric into CloudWatch. Which method would be the best way to authenticate your CloudWatch PUT request?

- A. Create an IAM role with the Put MetricData permission and modify the Auto Scaling launch configuration to launch instances in that role
- B. Create an IAM user with the PutMetricData permission and modify the Auto Scaling launch configuration to inject the userscredentials into the instance User Data
- C. Modify the appropriate Cloud Watch metric policies to allow the Put MetricData permission to instances from the Auto Scaling group
- D. Create an IAM user with the PutMetricData permission and put the credentials in a private repository and have applications on the server pull the credentials as needed

Correct Answer: A

QUESTION 37

When an EC2 instance that is backed by an S3-based AMI is terminated, what happens to the data on the root volume?

- A. Data is automatically saved as an EBS volume.
- B. Data is automatically saved as an EBS snapshot.
- C. Data is automatically deleted.
- D. Data is unavailable until the instance is restarted.

Correct Answer: C

Explanation:

<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ComponentsAMIs.html>

QUESTION 38

If you want to launch Amazon Elastic Compute Cloud (EC2) Instances and assign each Instance a predetermined private IP address you should:

- A. Assign a group or sequential Elastic IP address to the instances
- B. Launch the instances in a Placement Group
- C. Launch the instances in the Amazon virtual Private Cloud (VPC).
- D. Use standard EC2 instances since each instance gets a private Domain Name Service (DNS) already
- E. Launch the Instance from a private Amazon Machine image (AMI)

Correct Answer: C

Explanation:

<http://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/vpc-ip-addressing.html>

QUESTION 39

You have an Auto Scaling group associated with an Elastic Load Balancer (ELB). You have noticed that instances launched via the Auto Scaling group are being marked unhealthy due to an ELB health check, but these unhealthy instances are not being terminated. What do you need to do to ensure that instances marked unhealthy by the ELB will be terminated and replaced?

- A. Change the thresholds set on the Auto Scaling group health check

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- B. Add an Elastic Load Balancing health check to your Auto Scaling group
- C. Increase the value for the Health check interval set on the Elastic Load Balancer
- D. Change the health check set on the Elastic Load Balancer to use TCP rather than HTTP checks

Correct Answer: B

Explanation:

<http://docs.aws.amazon.com/AutoScaling/latest/DeveloperGuide/as-add-elb-healthcheck.html>

Add an Elastic Load Balancing Health Check to your Auto Scaling Group

By default, an Auto Scaling group periodically reviews the results of EC2 instance status to determine the health state of each instance. However, if you have associated your Auto Scaling group with an Elastic Load Balancing load balancer, you can choose to use the Elastic Load Balancing health check. In this case, Auto Scaling determines the health status of your instances by checking the results of both the EC2 instance status check and the Elastic Load Balancing instance health check.

For information about EC2 instance status checks, see Monitor Instances With Status Checks in the Amazon EC2 User Guide for Linux Instances. For information about Elastic Load Balancing health checks, see Health Check in the Elastic Load Balancing Developer Guide.

This topic shows you how to add an Elastic Load Balancing health check to your Auto Scaling group, assuming that you have created a load balancer and have registered the load balancer with your Auto Scaling group. If you have not registered the load balancer with your Auto Scaling group, see Set Up a Scaled and Load-Balanced Application.

Auto Scaling marks an instance unhealthy if the calls to the Amazon EC2 action DescribeInstanceStatus return any state other than running, the system status shows impaired, or the calls to Elastic Load Balancing action DescribeInstanceHealth returns OutOfService in the instance state field.

If there are multiple load balancers associated with your Auto Scaling group, Auto Scaling checks the health state of your EC2 instances by making health check calls to each load balancer. For each call, if the Elastic Load Balancing action returns any state other than InService, the instance is marked as unhealthy. After Auto Scaling marks an instance as unhealthy, it remains in that state, even if subsequent calls from other load balancers return an InService state for the same instance.

QUESTION 40

Your company is moving towards tracking web page users with a small tracking. Image loaded on each page. Currently you are serving this image out of US-East, but are starting to get concerned about the time it takes to load the image for users on the west coast. What are the two best ways to speed up serving this image? Choose 2 answers

- A. Use Route 53's Latency Based Routing and serve the image out of US-West-2 as well as US-East-1
- B. Serve the image out through CloudFront
- C. Serve the image out of S3 so that it isn't being served off of your web application tier
- D. Use EBS PIOPs to serve the image faster out of your EC2 instances

Correct Answer: AD

QUESTION 41

You receive a frantic call from a new DBA who accidentally dropped a table containing all your

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customers. Which Amazon RDS feature will allow you to reliably restore your database to within 5 minutes of when the mistake was made?

- A. Multi-AZ RDS
- B. RDS snapshots
- C. RDS read replicas
- D. RDS automated backup

Correct Answer: D

Explanation:

<http://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Overview.BackingUpAndRestoringAmazonRDSInstances.html>

QUESTION 42

You have started a new job and are reviewing your company's infrastructure on AWS. You notice one web application where they have an Elastic Load Balancer (ELB) in front of web instances in an Auto Scaling Group. When you check the metrics for the ELB in CloudWatch, you see four healthy instances in Availability Zone (AZ) A and zero in AZ B. There are zero unhealthy instances. What do you need to fix to balance the instances across AZs?

- A. Set the ELB to only be attached to another AZ
- B. Make sure Auto Scaling is configured to launch in both AZs
- C. Make sure your AMI is available in both AZs
- D. Make sure the maximum size of the Auto Scaling Group is greater than 4

Correct Answer: B

QUESTION 43

You have identified network throughput as a bottleneck on your m1.small EC2 instance when uploading data into Amazon S3 in the same region. How do you remedy this situation?

- A. Add an additional ENI
- B. Change to a larger Instance
- C. Use DirectConnect between EC2 and S3
- D. Use EBS PIOPS on the local volume

Correct Answer: B

Explanation:

https://media.amazonwebservices.com/AWS_Amazon_EMR_Best_Practices.pdf

QUESTION 44

Which two AWS services provide out-of-the-box user configurable automatic backup-as-a-service and backup rotation options? Choose 2 answers.

- A. Amazon S3
- B. Amazon RDS
- C. Amazon EBS
- D. Amazon Redshift

Correct Answer: BD