

Question #31

Topic 1

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: D

Consolidate your accounts so you have a single bill for all accounts and projects (Consolidation will not help limit per account)

Set up auto scaling with CloudWatch alarms using SNS to notify you when you are running too many Instances in a given account (many instances do not directly map to cost and would not give exact cost).

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. (as each project already has an account, no need for resource tagging).

Question #32

Topic 1

When creation of an EBS snapshot is initiated but not completed the EBS volume?

- A. Cannot be detached or attached to an EC2 instance until the snapshot completes
- B. Can be used in read-only mode while the snapshot is in progress
- C. Can be used while the snapshot is in progress
- D. Cannot be used until the snapshot completes

Correct Answer: C

Reference:

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

You are using ElastiCache Memcached to store session state and cache database queries in your infrastructure. You notice in CloudWatch that Evictions and GetMisses are both very high. What two actions could you take to rectify this? (Choose two.)

- ☒ A. Increase the number of nodes in your cluster
- ☐ B. Tweak the max_item_size parameter
- ☐ C. Shrink the number of nodes in your cluster
- ☒ D. Increase the size of the nodes in the cluster

Correct Answer: AD

<https://docs.aws.amazon.com/AmazonElastiCache/latest/UserGuide/CacheMetrics.WhichShouldIMonitor.html>

Community vote distribution

AD (100%)

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 two.)

- ☐ A. Move to an SSD backed instance
- ☒ B. Move the database to an EBS-Optimized Instance
- ☒ C. Use Provisioned IOPS EBS
- ☐ D. Use the ephemeral storage on an m2.xlarge Instance Instead

Correct Answer: BC

Your EC2-Based Multi-tier application includes a monitoring instance that periodically makes application -level read only requests of various application components and if any of those fail more than three times 30 seconds calls CloudWatch to fire an alarm, and the alarm notifies your operations team by email and

SMS of a possible application health problem. However, you also need to watch the watcher -the monitoring instance itself - and be notified if it becomes unhealthy.

Which of the following is a simple way to achieve that goal?

A. Run another monitoring instance that pings the monitoring instance and fires a CloudWatch alarm that notifies your operations team should the primary monitoring instance become unhealthy.

B. Set a CloudWatch alarm based on EC2 system and instance status checks and have the alarm notify your operations team of any detected problem with the monitoring instance.

C. Set a CloudWatch alarm based on the CPU utilization of the monitoring instance and have the alarm notify your operations team if the CPU usage exceeds 50% for more than one minute; then have your monitoring application go into a CPU-bound loop should it detect any application problems.

D. Have the monitoring instances post messages to an SQS queue and then dequeue those messages on another instance should the queue cease to have new messages, the second instance should first terminate the original monitoring instance start another backup monitoring instance and assume the role of the previous monitoring instance and begin adding messages to the SQS queue.

Correct Answer: B

Community vote distribution

B (100%)

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

Reference:

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

You are attempting to connect to an instance in Amazon VPC without success. You have already verified that the VPC has an Internet Gateway (IGW) the instance has an associated Elastic IP (EIP) and correct security group rules are in place. Which VPC component should you evaluate next?

- A. The configuration of a NAT instance
- B. The configuration of the Routing Table
- C. The configuration of the internet Gateway (IGW)
- D. The configuration of SRC/DST checking

Correct Answer: B

Reference:

<http://docs.aws.amazon.com/ElasticLoadBalancing/latest/DeveloperGuide/UserScenariosForVPC.html>

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 AML 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: A

OpsWorks has integrated support for Chef and lifecycle events.

Reference:

<http://docs.aws.amazon.com/opsworks/latest/userguide/workingcookbook.html>

You have been asked to automate many routine systems administrator backup and recovery activities. Your current plan is to leverage AWS-managed solutions as much as possible and automate the rest with the AWS CLI and scripts. Which task would be best accomplished with a script?

- A. Creating daily EBS snapshots with a monthly rotation of snapshots
- B. Creating daily RDS snapshots with a monthly rotation of snapshots
- C. Automatically detect and stop unused or underutilized EC2 instances
- D. Automatically add Auto Scaled EC2 instances to an Amazon Elastic Load Balancer

Correct Answer: A

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 two.)

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 Security Token Service

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

Correct Answer: AB

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