

Q1)

Your company has a set of development teams that work in a variety of programming languages. They develop applications which have a lot of different application dependencies. There is a move from the company to move these development environments onto AWS.

Which of the below is the best option to make this happen?

- ☒ Use the Elastic beanstalk service and use Docker containers to host each application environment for the developer community
- ☐ Use the Cloud formation service to create docker containers for each type of application
- ☐ Launch separate EC2 Instances to host each application type for the developer community
- ☐ Use the Ops work service. create a stack and create separate layers for each application environment for the developer community

Q2)

You are a Dev ops Engineer for your company. The company has a number of Cloud formation templates in AWS. There is a concern from the IT Security department and they want to know who all use the Cloud formation stacks in the company's AWS account.

Which of the following can be done to take care of this security concern?

- ☐ Connect SQS and Cloud formation so that a message is published for each resource created in the Cloud formation stack.
- ☐ Enable Cloud watch logs for each cloud formation stack to track the resource creation events.
- ☒ Enable Cloud trail logs so that the API calls can be recorded
- ☐ Enable Cloud watch events for each cloud formation stack to track the resource creation events.

Q3)

You are a Dev ops Engineer for your company. You have been instructed to create a continuous integrated and continuous delivery model for the application in your organization.

Which of the below services could be used for this purpose. Choose 2 answers from the options given below ?

- ☐ AWS SQS
- ☒ AWS Code Pipeline
- ☒ AWS Code Deploy
- ☐ AWS IAM

Q4) Robert is system administrator at TPT Limited and has many applications and services running simultaneously in production AWS account. TPT Limited has tasked Robert to provide a good understanding of the applications that cost the most per month to operate, without expending too much initial development time. What of the following options should Robert use to meet the requirement?

- ☐ None of these
- ☒ Use AWS Cost Allocation Tagging for all resources which support it. Use the Cost Explorer to analyze costs throughout the month.
- ☐ Use the AWS Price API and constantly running resource inventory scripts to calculate total price based on multiplication of consumed resources over time.
- ☐ Create an automation script which periodically creates AWS Support tickets requesting detailed Intra.month information about your bill.
- ☐ Use custom Cloud Watch Metrics in your system, and put a metric data point whenever cost is incurred.

Q5)

You have written a Cloud Formation template that creates 1 elastic load balancer fronting 2 EC2 instances.

Which section of the template should you edit so that the DNS of the load balancer is returned upon creation of the stack?

- ☐ Resources
- ☐ Mappings
- ☐ Parameters
- ☒ Outputs

Q6)

Which of the following items are required to allow an application deployed on an EC2 instance to write data to a Dynamo DB table?

Assume that no security keys are allowed to be stored on the EC2 instance. Choose 2 answers from the options below ?

- ☒ Create an IAM Role that allows write access to the Dynamo DB table
- ☒ Add an IAM Role to a running EC2 Instance.
- ☐ Add an IAM User to a running EC2 instance.
- ☐ Create an IAM User that allows write access to the Dynamo DB table.

Q7)

You have just been assigned to take care of the Automated resources which have been setup by your company in AWS. You are looking at Integrating some of the company's chef recipes to be used for the existing Ops work stacks already setup in

**AWS.**

**By when you go to the recipes section, you cannot see the option to add any recipes. What could be the reason for this?**

- ☐ Once you create layers in the stack, you cannot assign custom recipes, this needs to be done when the layers are created.
- ☐ Once you create a stack, you cannot assign custom recipes. this needs to be done when the stack is created.
- ☒ The stacks were created without the custom cookbooks option. Just change the stack settings accordingly.
- ☐ The stack layers were created without the custom cookbooks option. Just change the layer settings accordingly.

---

**Q8)**

**Your company has an on-premise Active Directory setup in place. The company has extended their footprint on AWS, but still want to have the ability to use their on-premise Active Directory for authentication.**

**Which of the following AWS services can be used to ensure that AWS resources such as AWS Workspaces can continue to use the existing credentials stored in the on-premise Active Directory?**

- ☐ Use the Classic Link feature on AWS
- ☐ Use the AWS Simple AD service
- ☒ Use the Active Directory connector service on AWS
- ☐ Use the Active Directory service on AWS

---

**Q9)**

**You are using Jenkins as your continuous integration systems for the application hosted in AWS. The builds are then placed on newly launched EC2 Instances. You want to ensure that the overall cost of the entire continuous integration and deployment pipeline is minimized.**

**Which of the below options would meet these requirements? Choose 2 answers from the options given below Please select:**

- ☐ Ensure the Instances are created beforehand for faster turnaround time for the application builds to be placed.
- ☐ Ensure that all build tests are conducted on the newly launched EC2 Instances.
- ☒ Ensure the Instances are launched only when the build tests are completed.
- ☒ Ensure that all build tests are conducted using Jenkins before deploying the build to newly launched EC2 Instances.

---

**Q10) The AWS Code Deploy service can be used to deploy code from which of the below mentioned source repositories. Choose 3 answers from the options given below Please select:**

- ☒ Bit bucket repositories
- ☒ Git Hub repositories .-
- ☐ Subversion repositories
- ☒ S3 Buckets

---

**Q11)**

**Your company has a number of Cloud formation stacks defined in AWS. As part of the routine housekeeping activity, a number of stacks have been targeted for deletion.**

**But a few of the stacks are not getting deleted and are failing when you are trying to delete them.**

**Which of the following could be valid reasons for this? Choose 2 answers from the options given below**

- ☐ The stacks were created with the wrong template version. Since the standard template version is now higher it is preventing the deletion of the stacks. You need to contact AWS support.
- ☐ The stack has an S3 bucket defined which has objects present in it.
- ☒ The stack has a EC2 Security Group which has EC2 Instances attached to it.
- ☐ The stack consists of an EC2 resource which was created with a custom AMI.

---

**Q12)**

**You have a web application composed of an Auto Scaling group of web servers behind a load balancer, and create a new AMI for each application version for deployment. You have a new version to release, and you want to use the Blue-Green deployment technique to migrate users over in a controlled manner while the size of the fleet remains constant over a period of 6 hours, to ensure that the new version is performing well.**

**What option should you choose to enable this technique while being able to roll back easily? Choose 2 answers from the options given below. Each answer presents part of the solution**

- ☒ Create an Auto Scaling launch configuration with the new AMI to use the new launch configuration and to > register instances with the new load balancer
- ☒ Use Amazon Route53 weighted Round Robin to vary the proportion of requests sent to the load balancers.
- ☐ Create an Auto Scaling launch configuration with the new AMI to use the new launch configuration and to register instances with the existing load balancer
- ☐ Configure Elastic Load Balancing to vary the proportion of requests sent to instances running the two application versions.

---

**Q13)**

**A company is running three production web server reserved EC2 instances with EBSbacked root volumes. These instances have a consistent CPU load of 80%. Traffic is being distributed to these instances by an Elastic Load Balancer. They also have production and development Multi-AZ RDS MySQL databases.**

**What recommendation would you make to reduce cost in this environment without affecting availability of mission-critical systems? Choose the correct answer from the options given below?**

- ☐ Consider removing the Elastic Load Balancer
- ☐ Consider using on-demand instances instead of reserved EC2 instances
- ☐ Consider using spot instances instead of reserved EC2 instances
- ☒ Consider not using a Multi-AZ RDS deployment for the development database

---

**Q14) In AWS Code Deploy which of the following deployment types are available. Choose 2 answers from the options given below Please select:**

- ☒ Blue/Green deployments
- ☐ Rolling deployments
- ☒ In-place deployments
- ☐ Immutable deployments

---

**Q15)**

**You set up a web application development environment by using a third party configuration management tool to create a Docker container that is run on local developer machines.**

**What should you do to ensure that the web application and supporting network storage and security infrastructure does not impact your application after you deploy into AWS for staging and production environments?**

- ☐ Because the application is inside a Docker container, there are no infrastructure differences to be taken into account when moving from the local development environments to AWS for staging and production.
- ☐ Write a script using the AWS SDK or CLI to deploy the application code from version control to the local development environments staging and production using AWS OpsWorks.
- ☐ Define an AWS Cloud Formation template for each stage of the application deployment lifecycle - development, staging and production and have tagging in each template to define the environment.
- ☒ Define an AWS Cloud Formation template to place your infrastructure into version control and use the same template to deploy the Docker container into Elastic Beanstalk for staging and production.

---

**Q16)**

**You are in charge of designing a Cloud formation template which deploys a LAMP stack. After deploying a stack, you see that the status of the stack is showing as CREATE\_COMPLETE, but the apache server is still not up and running and is experiencing issues while starting up.**

**You want to ensure that the stack creation only shows the status of CREATE\_COMPLETE after all resources defined in the stack are up and running.**

**How can you achieve this? Choose 2 answers from the options given below.**

- ☒ Use the Creation Policy to ensure it is associated with the EC2 instance resource. .,
- ☐ Define a stack policy which defines that all underlying resources should be up and running before showing status of CREATE\_COMPLETE
- ☒ Use the CFN helper scripts to signal once the resource configuration is complete.
- ☐ Use lifecycle hooks to mark the completion of the creation and configuration of the underlying resource.

---

**Q17)**

**You are a Dev ops Engineer and are designing an Ops work stack in AWS. The company has some custom recipes that are part of their on-premise Chef configuration.**

**These same recipes need to be run whenever an instance is launched in Ops works.**

**Which of the following steps need to be carried out to ensure this requirement gets fulfilled. Choose 2 answers from the options given below**

- ☐ Ensure the custom cookbooks option is set in Ops work layer.
- ☒ Ensure the recipe is placed as part of the Setup Lifecycle event as part of the Layer setting.
- ☐ Ensure the recipe is placed as part of the Setup Lifecycle event as part of the Stack setting.
- ☒ Ensure the custom cookbooks option is set in Ops work stack.

---

**Q18)**

**You have a set of applications hosted in AWS. There is a requirement to store the logs from this application onto durable storage. After a period of 3 months, the logs can be placed in archival storage.**

**Which of the following steps would you carry out to achieve this requirement. Choose 2 answers from the options given below**

- ☒ Store the log files as they emitted from the application on to Amazon Simple Storage service
- ☐ Use Lifecycle policies to move the data onto Amazon Simple Storage service after a period of 3 months
- ☒ Use Lifecycle policies to move the data onto Amazon Glacier after a period of 3 months
- ☐ Store the log files as they emitted from the application on to Amazon Glacier

---

**Q19)**

**As part of your deployment process, you are configuring your continuous integration (CI) system to build AMIs. You want to build them in an automated manner that is also cost-efficient.**

**Which method should you use?**

- ☒ Have the CI system launch a new spot instance bootstrap the code and apps onto the instance and create an AMI out of it.
- ☐ Upload all contents of the image to Amazon S3 launch the base instance, download all of the contents from Amazon S3 and create the AMI.
- ☐ Have the CI system launch a new instance, bootstrap the code and apps onto the instance and create an AMI out of it.
- ☐ Attach an Amazon EBS volume to your CI instance, build the root file system of your image on the volume, and use the CreateImage API call to create an AMI out of this volume.

---

**Q20)**

**You are a Dev ops engineer for your company. The company hosts a web application that is hosted on a single EC2 Instance. The end users are complaining of slow response times for the application.**

**Which of the following can be used to effectively scale the application?**

- ☐ Use Auto scaling launch configurations to launch multiple instances and place them behind an ELB.
- ☐ Use Amazon RDS with the Multi-AZ feature.
- ☐ Use CloudFormation to deploy the app again with an Amazon RDS with the Multi-AZ feature.
- ☒ Use Auto scaling Groups to launch multiple instances and place them behind an ELB.

---

**Q21)**

**Your company is planning on using the available services in AWS to completely automate their integration, build and deployment process. They are planning on using AWS Code Build to build their artifacts.**

**When using Code Build, which of the following files specifies a collection of build commands that can be used by the service during the build process?**

- ☐ Appspec.json
- ☐ appspec.yml
- ☒ buildspec.yml
- ☐ buildspec.xml

---

**Q22)**

**You have decided you need to change the instance type of your instances in production which are running as part of an Auto scaling Group. We have used CloudFormation Template to launch our architecture and have currently 4 instances in production.**

**You cannot have any interruption in service and need to ensure 2 Instances are always running during the update.**

**Which of the options listed below can be chosen for this?**

- ☐ Auto Scaling Scheduled Action
- ☐ Auto Scaling integration Update
- ☐ Auto Scaling Replacing Update
- ☒ Auto Scaling Rolling Update

---

**Q23) When you add lifecycle hooks to an Auto scaling Group, what are the wait states that occur during the scale in and scale out process. Choose 2 answers from the options given below Please select:**

- ☒ Terminating: Wait
- ☐ Launching: Wait
- ☒ Exiting: Wait
- ☐ Pending: Wait

---

**Q24)**

**Your public website uses a load balancer and an Auto Scaling group in a virtual private cloud. Your chief security officer has asked you to set up a monitoring system that quickly detects and alerts your team when a large sudden traffic increase occurs.**

**How should you set this up?**

- ☐ Use an Amazon EMR job to run every thirty minutes, analyze the Elastic Load Balancing access logs in a batch manner to detect a sharp increase in traffic and then use the Amazon Simple Email Service to alert your team
- ☐ Use an Amazon EMR job to run every thirty minutes analyze the CloudWatch logs from your application Amazon EC2 instances in a batch manner to detect a sharp increase in traffic and then use the Amazon SNS SMS notification to alert your team
- ☒ Set up an Amazon CloudWatch alarm for the Amazon EC2 Network in metric for the Auto Scaling group and then use Amazon SNS to alert your team.
- ☐ Set up a cron job to actively monitor the AWS Cloud Trail logs for increased traffic and use Amazon SNS to

---

**Q25)**

**You need to grant a vendor access to your AWS account. They need to be able to read protected messages in a private S3 bucket at their leisure. They also use AWS.**

**What is the best way to accomplish this? Please select:**

- ☐ Create an IAM User with API Access Keys. Grant the User permissions to access the bucket. Give the vendor the AWS Access Key ID and AWS Secret Access Key for the User.

- ☐ Generate a signed S3 PUT URL and a signed S3 GET URL both with wildcard values and 2 year durations. Pass the URLs to the vendor.
- ☐ Create an EC2 Instance Profile on your account. Grant the associated IAM role full access to the bucket. Start.... an EC2 instance with this Profile and give SSH access to the instance to the vendor.
- ☒ Create a cross-account IAM Role with permission to access the bucket, and grant permission to use the Role, to the vendor AWS account.

**Q26)**

**You are building an application based on the Go programming language for internal, nonproduction use which uses MySQL as a database. You want developers without very much AWS experience to be able to deploy new code with a single command line push. You also want to set this up as simply as possible.**

**Which Sh tool is ideal for this setup? Please select:**

- ☒ AWS ELB+EC2
- ☐ AWS ELB+EC2
- ☐ AWS Ops Works
- ☐ AWS Cloud Formation

**Q27)**

**You have instances running on your VPC. You have both production and development based instances running in the VPC. You want to ensure that people who are responsible for the development instances don't have the access to work on the production instances to ensure better security.**

**Using policies, which of the following would be the best way to accomplish this? Choose the correct answer from the options given below ?**

- ☒ Define the tags on the test and production servers and add a condition to the IAM policy which allows access to specific tags
- ☐ Launch the test and production instances in different Availability Zones and use Multi Factor Authentication
- ☐ Launch the test and production Instances in separate VPC's and use VPC peering
- ☐ Create an IAM policy with a condition which allows access to only instances that are used for production or development

**Q28)**

**Your development team is developing a mobile application that access resources in AWS. The users accessing this application will be logging in via Facebook and Google.**

**Which of the following AWS mechanisms would you use to authenticate users for the application that needs to access AWS resources Please select:**

- ☐ Use separate IAM users that correspond to each Facebook and Google user
- ☐ Use AWS Policies to authenticate the users
- ☒ Use Web identity federation to authenticate the users
- ☐ Use separate IAM Roles that correspond to each Facebook and Google user

**Q29) Which of the following logging solution are reliable as well as durable for tracking any change made to the AWS resources?**

- ☐ None of these
- ☐ Create a new Cloud Trail with one new S3 bucket to store the logs. Configure SNS to send log file delivery notifications to your management system. Use IAM roles and S3 bucket policies on the S3 bucket that stores your logs.
- ☐ Create three new Cloud Trail trails with three new S3 buckets to store the logs one for the AWS Management console, one for AWS SDK5 and one for command line tools. Use IAM roles and S3 bucket policies on the S3 buckets that store your logs.
- ☐ Create a new Cloud Trail with an existing S3 bucket to store the logs and with the global services option selected. Use S3 ACL5 and Multi Factor Authentication (MFA) Delete on the S3 bucket that stores your logs.
- ☒ Create a new Cloud Trail with one new S3 bucket to store the logs and with the global services option selected. Use IAM roles S3 bucket policies and Multi Factor Authentication (MFA) Delete on the S3 bucket that stores your logs.

**Q30) Which of the following services can be used to detect the application health in a Blue Green deployment in AWS?**

- ☐ AWS Code Commit
- ☐ AWS Code Pipeline
- ☐ AWS Cloud Trail
- ☒ AWS Cloud watch

**Q31) When storing sensitive data on the cloud which of the below options should be carried out on AWS. Choose 3 answers from the options given below?**

- ☒ Enable EBS Encryption
- ☒ Enable S3 Encryption
- ☒ Encrypt the file system on an EBS volume using Linux tools
- ☐ With AWS you do not need to worry about encryption

**Q32)**

**Your team is responsible for an AWS Elastic Beanstalk application. The business requires that you move to a continuous deployment model, releasing updates to the application multiple times per day with zero downtime,**

**What should you do to enable this and still be able to roll back almost immediately in an emergency to the previous version?**

- Develop the application to poll for a new application version in your code repository; download and install to each running Elastic Beanstalk instance.
- ✔ Create a second Elastic Beanstalk environment running the new application version, and swap the environment CNAMEs.
- Create a second Elastic Beanstalk environment with the new application version, and configure the old environment to redirect clients. using the HTTP 301 response code, to the new environment.
- Enable rolling updates in the Elastic Beanstalk environment, setting an appropriate pause time for application startup.

**Q33) When using EC2 instances with the Code Deploy service, which of the following are some of the prerequisites to ensure that the EC2 Instances can work with Code Deploy. Choose 2 answers from the options given below ?**

- Ensure the EC2 Instance is placed in the default VPC
- Ensure the EC2 Instance is configured with Enhanced Networking
- ✔ Ensure that the Code Deploy agent is installed on the EC2 Instance
- ✔ Ensure an IAM role is attached to the instance so that it can work with the Code Deploy Service.

**Q34) Which of the following is a reliable and durable logging solution to track changes made to your AWS resources?**

- Create three new Cloud Trail trails with three new S3 buckets to store the logs one for the AWS Management console, one for AWS SDKs and one for command line tools. Use IAM roles and S3 bucket policies on the S3 buckets that store your logs.
- Create a new Cloud Trail with one new S3 bucket to store the logs. Configure SNS to send log file delivery notifications to your management system. Use IAM roles and S3 bucket policies on the S3 bucket that stores your logs.
- ✔ Create a new Cloud Trail with one new S3 bucket to store the logs and with the global services option selected. Use IAM roles S3 bucket policies and Multi Factor Authentication (MFA) Delete on the S3 bucket that stores your logs.
- Create a new Cloud Trail trail with an existing S3 bucket to store the logs and with the global services option selected. Use S3 ACLs and Multi Factor Authentication (MFA) Delete on the S3 bucket that stores your logs.

**Q35)**

**Your current log analysis application takes more than four hours to generate a report of the top 10 users of your web application.**

**You have been asked to implement a system that can report this information in real time, ensure that the report is always up to date, and handle increases in the number of requests to your web application. Choose the option that is cost-effective and can fulfill the requirements. Please select:**

- Publish your log data to an Amazon S3 bucket. Use AWS CloudFormation to create an Auto Scaling group to scale your post-processing application which is configured to pull down your log files stored in Amazon S3.
- Publish your data to CloudWatch Logs. and configure your application to auto scale to handle the load on demand.
- ✔ Post your log data to an Amazon Kinesis data stream, and subscribe your log-processing application so that is configured to process your logging data.
- Create a multi-AZ Amazon RDS MySQL cluster, post the logging data to MySQL and run a map reduce job to retrieve the required information on user counts.

**Q36)**

**You are a DevOps Engineer for your company. There is a requirement to log each time an instance is scaled in or scaled out from an existing Auto scaling Group.**

**Which of the following steps can be implemented to fulfil this requirement. Each step forms part of the solution?**

- ✔ Create a CloudWatch event which will trigger the Lambda function.
- Create a CloudWatch event which will trigger the SQS queue.
- ✔ Create a Lambda function which will write the event to CloudWatch logs
- Create an SQS queue which will write the event to CloudWatch logs

**Q37)**

**You have a requirement to automate the creation of EBS Snapshots.**

**Which of the following can be used to achieve this in the best way possible?**

- ✔ Use CloudWatch Events to trigger the snapshots of EBS Volumes
- Create a PowerShell script which uses the AWS CLI to get the volumes and then run the script as a cron job.
- Use the AWS CodeDeploy service to create a snapshot of the AWS Volumes
- Use the AWS Config service to create a snapshot of the AWS Volumes

**Q38)**

**You've created a CloudFormation template as per your team's request which is required for testing an application. By there is a request that when the stack is deleted, that the database is preserved for future reference.**

**How can you achieve this using CloudFormation?**

- ✔ In the AWS CloudFormation template, set the Deletion Policy of the AWS::RDS::DB instance's Deletion Policy property to Retain
- In the AWS CloudFormation template. set the Wait Policy of the AWS::RDS::DB instances Wait Policy property to Retain.
- Ensure that the RDS is created with Read Replica's so that the Read Replica remains after the stack is torn down.
- In the AWS CloudFormation template. set the AWS::RDS::DB instances DB instance Class property to be read-only.

**Q39) Robert is system administrator at TPT Limited. He has been asked to build out a layer in a software stack on AWS which should be able to quickly scale as per the demand. Select the application code deployment method Robert should use in case the code is running on EC2 Instances in an Auto Scaling Group behind an ELB.**

- ☐ None of these
- ☐ Create a new Auto Scaling Launch Configuration with User Data scripts configured to pull the latest code at all times.
- ☐ Create a Docker file when preparing to deploy a new version to production and publish it to S3. Use User Data in the Auto Scaling Launch configuration to pull down the Docker file from S3 and run it when new instances launch.
- ☐ SSH into new instances that come online, and deploy new code onto the system by pulling it from an S3 bucket, which is populated by code that you refresh from source control on new pushes.
- ☒ Bake an AMI when deploying new versions of code, and use that AMI for the Auto Scaling Launch Configuration.

---

**Q40)**

**Your company currently has a set of EC2 Instances running a web application which sits behind an Elastic Load Balancer. You also have an Amazon RDS instance which is used by the web application.**

**You have been asked to ensure that this architecture is self healing in nature and cost effective.**

**Which of the following would fulfill this requirement. Choose 2 answers from the option given below?**

- ☒ Utilize the Multi-AZ feature for the Amazon RDS layer
- ☒ Use Cloud watch metrics to check the utilization of the web layer. Use Auto scaling Group to scale the web instances accordingly based on the cloud watch metrics.
- ☐ Utilize the Read Replica feature for the Amazon RDS layer
- ☐ Use Cloud watch metrics to check the utilization of the databases servers. Use Auto scaling Group to scale database instances accordingly based on the cloud watch metrics.

---

**Q41)**

**Your company has an application sitting on EC2 Instances behind an Elastic Load balancer.**

**The EC2 Instances are being launched as part of an Auto scaling Group.**

**Which of the following is an example of Blue Green Deployments In AWS?**

- ☐ Use the Elastic beanstalk service to deploy your resources. Use 2 Elastic beanstalk environments. Use Roller deployments to switch between the environments.
- ☐ Use a Cloud formation stack to deploy your resources. Use 2 Cloud formation stacks. Whenever you want to switch over, deploy and use the resources in the second Cloud formation stack.
- ☐ Use the Ops works service to deploy your resources. Use 2 Opswork layers to deploy 2 versions of your application. When the time comes for the switch, change to the alternate layer in the Opswork stack
- ☒ Re-deploy your application behind a load balancer that uses Auto Scaling groups, create a new identical Auto Scaling group. and associate it to the load balancer. During deployment, set the desired number of instances on the old Auto Scaling group to zero. and when all instances have terminated, delete the old Auto Scaling group.

---

**Q42)**

**Your company has a set of resources hosted in AWS. Your IT Supervisor is concerned with the costs being incurred with the current set of AWS resources and wants to monitor the cost usage.**

**Which of the following mechanisms can be used to monitor the costs of the AWS resources and also look at the possibility of cost optimization. Choose 3 answers from the options given below Please select:**

- ☒ Create budgets in billing section so that budgets are set beforehand
- ☐ Send all logs to Cloud watch logs and inspect the logs for billing details
- ☒ Use the Cost Explorer to see the costs of AWS resources
- ☒ Consider using the Trusted Advisor

---

**Q43)**

**You have decided you need to change the instance type of your instances in production which are running as part of an Auto scaling Group. You currently have 4 instances in production.**

**You cannot have any interruption in service and need to ensure 2 instances are always running during the update.**

**Which of the below options can be chosen for this?**

- ☒ Auto Scaling Rolling update
- ☐ Auto Scaling Scheduled Action
- ☐ Auto Scaling Replacing update
- ☐ Auto Scaling integration update

---

**Q44)**

**You have an application running in us-west-2 that requires 6 EC2 instances running at all times.**

**With 3 AZ available in that region, which of the following deployments provides 100% fault tolerance if any single AZ in us-west-2 becomes unavailable. Choose 2 answers from the options below Please select:**

- ☐ us-west-2a with 4 instances, us-west-2b with 2 instances, us-west-2c with 2 instances



- us-west-2a with 2 instances. us-west-2b with 2 instances, us-west-2c with 2 instances
- ✓ us-west-2a with 3 instances. us-west-2b with 3 instances, us-west-2c with 3 instances
- ✓ us-west-2a with 6 instances. us-west-2b with 6 instances. us-west-2c with 0 instances

**Q45)**

**Your application uses Amazon SQS and Auto Scaling to process background jobs. The Auto Scaling policy is based on the number of messages in the queue, with a maximum instance count of 100. Since the application was launched, the group has never scaled above 50. The Auto scaling group has now scaled to 100, the queue size is increasing and very few jobs are being completed.**

**The number of messages being sent to the queue is at normal levels.**

**What should you do to identify why the queue size is unusually high and to reduce it?**

- Temporarily increase the Auto Scaling groups desired value to 200. When the queue size has been reduced reduce it to 50.
- Analyze Cloud Trail logs for Amazon SQS to ensure that the instances Amazon EC2 role has permission to receive messages from the queue.
- ✓ Analyze the application logs to identify possible reasons for message processing failure and resolve the cause for failures.
- Create additional Auto Scaling groups enabling the processing of the queue to be performed in parallel.

**Q46) Which of the following services allows you to easily run and manage Docker-enabled applications across a cluster of Amazon EC2 Instances ?**

- Elastic beanstalk
- Cloud watch
- Ops work
- ✓ Elastic Container service

**Q47) Which of the following services from AWS can be integrated with the Jenkins continuous integration tool?**

- ✓ All of the above
- Amazon ECS
- Amazon Elastic beanstalk
- Amazon EC2

**Q48)**

**You need to deploy a Node.js application and do not have any experience with AWS.**

**Which deployment method will be the simplest for you to deploy?**

- AWSSEC2
- AWS Ops Works
- ✓ AWS Elastic Beanstalk
- AWS Cloud Formation

**Q49) Which of these is not an intrinsic function in AWS Cloud Formation?**

- Fn::Not
- Fn::Equals
- ✓ Fn::Parse
- . Fn::If

**Q50) Your CTO thinks your AWS account was hacked. What is the only way to know for certain if there was unauthorized access and what they did, assuming your hackers are very sophisticated AWS engineers and doing everything they can to cover their tracks?**

- Use AWS Config Timeline forensics.
- Use AWS Config SNS Subscriptions and process events in real time.
- ✓ Use Cloud Trail Log File Integrity Validation
- Use Cloud Trail backed up to AWS S3 and Glacier