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Amazon DOP-C02 Exam Dumps

Designing and Implementing a Amazon Azure AI Solution



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To prepare for the DOP-C02 Exam, candidates should have a solid understanding of DevOps principles and practices, as well as experience working with AWS services and tools. Amazon recommends that candidates have at least two years of experience in a DevOps role and a strong understanding of programming languages and scripting. Candidates can also take advantage of AWS training and certification resources, including online courses, practice exams, and instructor-led training, to prepare for the exam and enhance their skills and knowledge in DevOps and AWS.

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The AWS Certified DevOps Engineer – Professional certification is a high-level certification that requires a thorough understanding

of the AWS platform and DevOps practices. DOP-C02 exam tests the candidate's ability to design, manage, and implement AWS solutions using various DevOps tools and practices. DOP-C02 exam is designed to validate the candidate's skills in areas such as continuous integration and delivery, monitoring and logging, infrastructure as code, and automation.

Amazon DOP-C02 or AWS Certified DevOps Engineer - Professional Exam is a certification exam offered by Amazon Web Services (AWS) for experienced DevOps professionals. DOP-C02 exam is designed to validate the candidate's technical expertise in managing, provisioning, and operating AWS environments using DevOps practices and principles. DOP-C02 exam is intended for professionals who have a minimum of two years of experience in DevOps and have experience working with AWS.

Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q223-Q228):

NEW QUESTION # 223

A company has a mission-critical application on AWS that uses automatic scaling. The company wants the deployment lifecycle to meet the following parameters.

- * The application must be deployed one instance at a time to ensure the remaining fleet continues to serve traffic
- * The application is CPU intensive and must be closely monitored
- * The deployment must automatically roll back if the CPU utilization of the deployment instance exceeds 85%.

Which solution will meet these requirements?

- A. Use AWS Elastic Beanstalk for load balancing and AWS Auto Scaling. Configure an alarm tied to the CPU utilization metric. Configure rolling deployments with a fixed batch size of one instance. Enable enhanced health to monitor the status of the deployment and roll back based on the alarm previously created.
- B. Use AWS CloudFormation to create an AWS Step Functions state machine and Auto Scaling lifecycle hooks to move to one instance at a time into a wait state. Use AWS Systems Manager automation to deploy the update to each instance and move it back into the Auto Scaling group using the heartbeat timeout.
- C. Use AWS Systems Manager to perform a blue/green deployment with Amazon EC2 Auto Scaling. Configure an alarm tied to the CPU utilization metric. Deploy updates one at a time. Configure automatic rollbacks within the Auto Scaling group to roll back the deployment if the alarm thresholds are breached.
- **D. Use AWS CodeDeploy with Amazon EC2 Auto Scaling. Configure an alarm tied to the CPU utilization metric. Use the CodeDeployDefault OneAtATime configuration as a deployment strategy. Configure automatic rollbacks within the deployment group to roll back the deployment if the alarm thresholds are breached.**

Answer: D

Explanation:

<https://aws.amazon.com/about-aws/whats-new/2016/09/aws-codedeploy-introduces-deployment-monitoring-with-amazon-cloudwatch-alarms-and-automatic-deployment-rollback/>

NEW QUESTION # 224

A company uses containers for its applications. The company learns that some container images are missing required security configurations. A DevOps engineer needs to implement a solution to create a standard base image. The solution must publish the base image weekly to the us-west-2 Region, us-east-2 Region, and eu-central-1 Region.

Which solution will meet these requirements?

- **A. Create an EC2 Image Builder pipeline that uses a container recipe to build the image. Configure the pipeline to distribute the image to Amazon Elastic Container Registry (Amazon ECR) repositories in all three Regions. Configure the pipeline to run weekly.**
- B. Create an AWS CodePipeline pipeline that uses an AWS CodeBuild project to build the image. Use AWS CodeDeploy to publish the image to an Amazon Elastic Container Registry (Amazon ECR) repository in us-west-2. Configure ECR replication from us-west-2 to us-east-2 and from us-east-2 to eu-central-1. Configure the pipeline to run weekly.
- C. Create an AWS CodePipeline pipeline that uses an AWS CodeBuild project to build the image. Use AWS CodeDeploy to publish the image to Amazon Elastic Container Registry (Amazon ECR) repositories in all three Regions. Configure the pipeline to run weekly.
- D. Create an EC2 Image Builder pipeline that uses a container recipe to build the image. Configure the pipeline to distribute the image to an Amazon Elastic Container Registry (Amazon ECR) repository in us-west-2. Configure ECR replication from us-west-2 to us-east-2 and from us-east-2 to eu-central-1. Configure the pipeline to run weekly.

Answer: A

Explanation:

Create an EC2 Image Builder Pipeline that Uses a Container Recipe to Build the Image:

EC2 Image Builder simplifies the creation, maintenance, validation, and sharing of container images.

By using a container recipe, you can define the base image, components, and validation tests for your container image.

Configure the Pipeline to Distribute the Image to Amazon Elastic Container Registry (Amazon ECR) Repositories in All Three Regions:

Amazon ECR provides a secure, scalable, and reliable container registry.

Configuring the pipeline to distribute the image to ECR repositories in us-west-2, us-east-2, and eu-central-1 ensures that the image is available in all required regions.

Configure the Pipeline to Run Weekly:

Setting the pipeline to run on a weekly schedule ensures that the base image is regularly updated and published, incorporating any new security configurations or updates.

By using EC2 Image Builder to automate the creation and distribution of the container image, the solution ensures that the base image is consistently maintained and available across multiple regions with minimal management overhead.

Reference:

EC2 Image Builder

Amazon ECR

Setting Up EC2 Image Builder Pipelines

NEW QUESTION # 225

An ecommerce company has chosen AWS to host its new platform. The company's DevOps team has started building an AWS Control Tower landing zone. The DevOps team has set the identity store within AWS IAM Identity Center (AWS Single Sign-On) to external identity provider (IdP) and has configured SAML 2.0.

The DevOps team wants a robust permission model that applies the principle of least privilege. The model must allow the team to build and manage only the team's own resources.

Which combination of steps will meet these requirements? (Choose three.)

- A. Create a group in the IdP. Place users in the group. Assign the group to OUs and IAM policies.
- B. Create permission sets. Attach an inline policy that includes the required permissions and uses the aws:PrincipalTag condition key to scope the permissions.
- C. Enable attributes for access control in IAM Identity Center. Map attributes from the IdP as key-value pairs.
- D. Enable attributes for access control in IAM Identity Center. Apply tags to users. Map the tags as key-value pairs.
- E. Create IAM policies that include the required permissions. Include the aws:PrincipalTag condition key.
- F. Create a group in the IdP. Place users in the group. Assign the group to accounts and the permission sets in IAM Identity Center.

Answer: B,C,F

Explanation:

Using the principalTag in the Permission Set inline policy a logged in user belonging to a specific AD group in the IDP can be permitted access to perform operations on certain resources if their group matches the group used in the PrincipleTag. Basically you are narrowing the scope of privileges assigned via Permission policies conditionally based on whether the logged in user belongs to a specific AD Group in IDP. The mapping of the AD group to the request attributes can be done using SSO attributes where we can pass other attributes like the SAML token as well.

<https://docs.aws.amazon.com/singlesignon/latest/userguide/abac.html>

NEW QUESTION # 226

A company's DevOps engineer uses AWS Systems Manager to perform maintenance tasks during maintenance windows. The company has a few Amazon EC2 instances that require a restart after notifications from AWS Health. The DevOps engineer needs to implement an automated solution to remediate these notifications. The DevOps engineer creates an Amazon EventBridge rule. How should the DevOps engineer configure the EventBridge rule to meet these requirements?

- A. Configure an event source of AWS Health, a service of EC2, and an event type that indicates instance maintenance. Target a Systems Manager document to restart the EC2 instance.
- B. Configure an event source of EC2 and an event type that indicates instance maintenance. Target a newly created AWS Lambda function that registers an automation task to restart the EC2 instance during a maintenance window.
- C. Configure an event source of AWS Health, a service of EC2, and an event type that indicates instance maintenance. Target a newly created AWS Lambda function that registers an automation task to restart the EC2 instance during a

maintenance window.

- D. Configure an event source of Systems Manager and an event type that indicates a maintenance window. Target a Systems Manager document to restart the EC2 instance.

Answer: A

NEW QUESTION # 227

A company has an application that runs on Amazon EC2 instances behind an Application Load Balancer (ALB). The EC2 instances are in multiple Availability Zones. The application was misconfigured in a single Availability Zone, which caused a partial outage of the application.

A DevOps engineer made changes to ensure that the unhealthy EC2 instances in one Availability Zone do not affect the healthy EC2 instances in the other Availability Zones. The DevOps engineer needs to test the application's failover and shift where the ALB sends traffic. During failover, the ALB must avoid sending traffic to the Availability Zone where the failure has occurred.

Which solution will meet these requirements?

- A. Create an Amazon Route 53 Application Recovery Controller resource set that uses the DNS hostname of the ALB. Start a zonal shift for the resource set away from the Availability Zone.
- **B. Turn off cross-zone load balancing on the ALB's target group. Use Amazon Route 53 Application Recovery Controller to start a zonal shift away from the Availability Zone.**
- C. Create an Amazon Route 53 Application Recovery Controller resource set that uses the ARN of the ALB's target group. Create a readiness check that uses the `ElbV2TargetGroupsCanServeTraffic` rule.
- D. Turn off cross-zone load balancing on the ALB. Use Amazon Route 53 Application Recovery Controller to start a zonal shift away from the Availability Zone.

Answer: B

Explanation:

* Turn off cross-zone load balancing on the ALB's target group:

Cross-zone load balancing distributes traffic evenly across all registered targets in all enabled Availability Zones. Turning this off will ensure that each target group only handles requests from its respective Availability Zone.

To disable cross-zone load balancing:

Go to the Amazon EC2 console.

Navigate to Load Balancers and select the ALB.

Choose the Target Groups tab, select the target group, and then select the Group details tab.

Click on Edit and turn off Cross-zone load balancing.

* Use Amazon Route 53 Application Recovery Controller to start a zonal shift away from the Availability Zone:

Amazon Route 53 Application Recovery Controller provides the ability to control traffic flow to ensure high availability and disaster recovery.

By using Route 53 Application Recovery Controller, you can perform a zonal shift to redirect traffic away from the unhealthy Availability Zone.

To start a zonal shift:

Configure Route 53 Application Recovery Controller by creating a cluster and control panel.

Create routing controls to manage traffic shifts between Availability Zones.

Use the routing control to shift traffic away from the affected Availability Zone.

Reference:

Disabling cross-zone load balancing

Route 53 Application Recovery Controller

NEW QUESTION # 228

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