## OBJECTIVE : ELASTIC CONTAINER SERVICE

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|---|---|
| **Attempt** | 2 |
| **Marks Obtained** | 5 / 8 |
| **Your score is** | 62.5% |
| **Completed on** | Saturday , 12 January 2019 , 06:33 AM |
| **Time Taken** | 00 H 03 M 42 S |
| **Result** | Fail |

### Domains / Topics wise Quiz Performance Report

| S.No. | Topic | Total Questions | Correct | Incorrect | Unattempted |
|---|---|---|---|---|---|
| 1 | Other | 8 | 5 | 3 | 0 |

| **8** Questions | **5** Correct | **3** Incorrect | **0** Unattempted |
|---|---|---|---|

Show Answers

All

QUESTION 1 CORRECT

Topic - Designing highly available, cost-efficient, fault-tolerant, scalable systems

You are planning on using the microservice architecture and deploying docker in your AWS environment. Which of the following services is ideal for this scenario?

- A. DynamoDB
- B. Simple Queue Service
- C. Elastic Container Service ✔
- D. CodeCommit

**Explanation :**

Answer - C
The AWS Documentation mentions
Amazon EC2 Container Service (Amazon ECS) is a highly scalable, fast, container management service that makes it easy to run, stop, and manage Docker containers on a cluster of Amazon Elastic Compute Cloud (Amazon EC2) instances. Amazon ECS lets you launch and stop container-based applications with simple API calls, allows you to get the state of your cluster from a centralized service, and gives you access to many familiar Amazon EC2 features.
For more information on Elastic Container service , please refer to the URL:

- http://docs.aws.amazon.com/AmazonECS/latest/developerguide/Welcome.html (http://docs.aws.amazon.com/AmazonECS/latest/developerguide/Welcome.html)

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QUESTION 2 CORRECT

Topic - Implementation and Deployment

You are planning to use the Elastic Container service in AWS. You want to ensure the right docker images are used within the containers when using the ECS service. Which of the following can be used to ensure the right docker images are used?

- A. Use task definition files ✔
- B. Use IAM policies
- C. Use the docker AMI's
- D. Use docker EC2 Instances

**Explanation :**

Answer – A
The AWS Documentation mentions
A task definition is required to run Docker containers in Amazon ECS. Some of the parameters you can specify in a task definition include:

- Which Docker images to use with the containers in your task
- How much CPU and memory to use with each container
- Whether containers are linked together in a task
- The Docker networking mode to use for the containers in your task
- What (if any) ports from the container are mapped to the host container instance
- Whether the task should continue to run if the container finishes or fails
- The command the container should run when it is started
- What (if any) environment variables should be passed to the container when it starts
- Any data volumes that should be used with the containers in the task
- What (if any) IAM role your tasks should use for permissions

For more information on Elastic Container service task definition, please refer to the URL:

- http://docs.aws.amazon.com/AmazonECS/latest/developerguide/task_definitions.html (http://docs.aws.amazon.com/AmazonECS/latest/developerguide/task_definitions.html)

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QUESTION 3 CORRECT

Topic - Implementation and Deployment

You are planning to use the Elastic Container service in AWS. You need the ECS service to connect with your registries hosted on Docker Hub. Which of the following features would you use to fulfil this requirement

- A. Cluster configuration
- B. Private Registry Authentication ✔
- C. HTTP Proxy configuration
- D. Repository Manager

Explanation :

Answer - B
The AWS Documentation mentions
The Amazon ECS container agent can authenticate with private registries, including Docker Hub, using basic authentication. When you enable private registry authentication, you can use private Docker images in your task definitions.
For more information on private authentication, please refer to the URL:

- http://docs.aws.amazon.com/AmazonECS/latest/developerguide/private-auth.html (http://docs.aws.amazon.com/AmazonECS/latest/developerguide/private-auth.html)

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QUESTION 4 CORRECT

Topic - Designing highly available, cost-efficient, fault-tolerant, scalable systems

You have the requirement to monitor the Elastic Container resources in your environment. Which of the following can be used to fulfil this requirement?

- A. Use AWS Cloudtrail
- B. Use AWS Cloudwatch ✔
- C. Use the Trusted Advisor
- D. There is no service available for monitoring

**Explanation :**

Answer - B
The AWS Documentation mentions
You can monitor your Amazon ECS resources using Amazon CloudWatch, which collects and processes raw data from Amazon ECS into readable, near real-time metrics
For more information on ECS Monitoring, please refer to the URL:

- http://docs.aws.amazon.com/AmazonECS/latest/developerguide/ecs_monitoring.html (http://docs.aws.amazon.com/AmazonECS/latest/developerguide/ecs_monitoring.html)

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QUESTION 5 INCORRECT

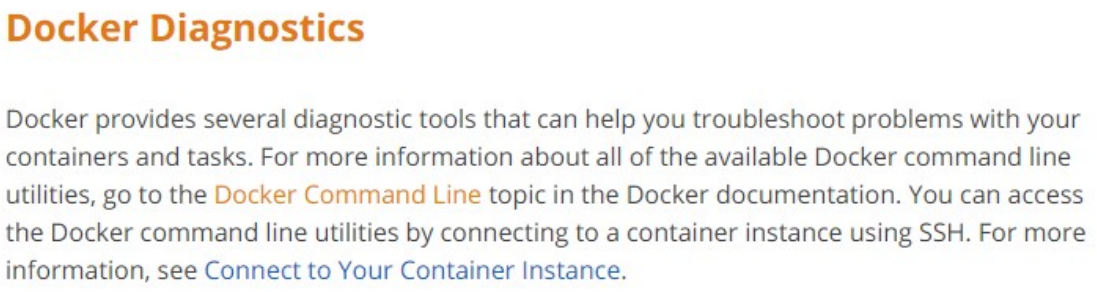
Topic - Troubleshooting

You are using docker containers on the Elastic Container service in AWS. You are experiencing some issues with the docker containers. Which of the following would be ideal to diagnose the errors with the docker containers?

- A. Use AWS Cloudtrail ✖
- B. Use AWS Cloudwatch
- C. Use the Trusted Advisor
- D. Use Docker Diagnostic Tools ✔

**Explanation :**

Answer - D
The AWS Documentation mentions
Docker provides several diagnostic tools that can help you troubleshoot problems with your containers and tasks




For more information on Docker diagnostics, please refer to the URL:

- http://docs.aws.amazon.com/AmazonECS/latest/developerguide/docker-diags.html (http://docs.aws.amazon.com/AmazonECS/latest/developerguide/docker-diags.html)

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QUESTION 6 CORRECT

Topic - Designing highly available, cost-efficient, fault-tolerant, scalable systems

Which of the following scenarios is ideal for using the Elastic Container

Service. Choose 3 answers from the options given below

- [x] **A.** For Continuous Integration ✔
- [x] **B.** For Continuous Deployment ✔
- [x] **C.** Microservices ✔
- [ ] **D.** Data Analysis

**Explanation :**

Answer - A,B and C
The AWS Documentation mentions
Continuous integration and continuous deployment (CICD) is a common process for microservice architectures that are based on Docker containers. You can create a pipeline that takes the following actions:
1) Monitors changes to a source code repository
2) Builds a new Docker image from that source
3) Pushes the image to an image repository such as Amazon ECR or Docker Hub
4) Updates your Amazon ECS services to use the new image in your application
For more information on ECS use cases, please refer to the URL:

- http://docs.aws.amazon.com/AmazonECS/latest/developerguide/common_use_cases.html (http://docs.aws.amazon.com/AmazonECS/latest/developerguide/common_use_cases.html)

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QUESTION 7 INCORRECT

Topic - Designing highly available, cost-efficient, fault-tolerant, scalable systems

Which of the following is not an advantage of using Dynamic port mapping for the Elastic container service

- A. Ability to assigned an unused port to a container on an EC2 Instance ✖
- B. An ELB can also be shared amongst multiple services using path-based routing
- C. There is a one to one mapping between ECS services and ELBs ✔
- D. One can create an environment variable with the service's ELB DNS name, supporting service discovery.

### Explanation :

Answer - C
The one to one mapping between ECS services and ELBs is actually a limitation which makes dynamic port mapping an advantage with all other options.
For more information on ECS dynamic port mapping, please refer to the URL:

- https://aws.amazon.com/about-aws/whats-new/2016/08/amazon-ec2-container-service-now-integrated-with-application-load-balancer-to-support-dynamic-ports-and-path-based-routing/ (https://aws.amazon.com/about-aws/whats-new/2016/08/amazon-ec2-container-service-now-integrated-with-application-load-balancer-to-support-dynamic-ports-and-path-based-routing/)

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QUESTION 8 INCORRECT

Topic - Implementation and Deployment

What is the main purpose of port mappings in the Elastic container service

- A. Ability to send traffic to the host container ✔
- B. Ability to expand in the cluster based on the number of ports
- C. Ability to use docker containers specifically ✖

○ **D.** Ability to send traffic on the physical host

### Explanation :

Answer - A
The AWS documentation mentions
Port mappings allow containers to access ports on the host container instance to send or receive traffic. Port mappings are specified as part of the container definition
For more information on Port mappings, please refer to the URL:

- http://docs.aws.amazon.com/AmazonECS/latest/APIReference/API_PortMapping.html (http://docs.aws.amazon.com/AmazonECS/latest/APIReference/API_PortMapping.html)

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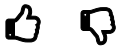

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