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Question 1

Question Type: DragDrop

plan plan

step 1

Answer: optimize optimize

step 2

reduce reduce

step 3

Question 2

Question Type: MultipleChoice

manage manage

step 4

What is a benefit of Infrastructure as Code for the cloud?

step 5

Options:

- A- It groups system downtime across the infrastructure
- B- It enables the user to automate deployments
- C- It does not require configuration.

D- It is a cost effective solution for services

Answer:

B

Question 3

Question Type: MultipleChoice

What is a benefit of monitoring the CI/CD pipeline?

Options:

A- troubleshoots distributed systems performance

B- proactively deploys new servers if needed

C- analyzes network outages that affect the network and server infrastructure

D- provides insight into how efficiently the development team is operating

Answer:

D

Question 4

Question Type: MultipleChoice

As a department starts following NetDevOps principles, how should the network monitoring strategy be updated to provide more visibility into the user experience?

Options:

- A- Leverage machine learning tools to more quickly identify problems in syslog and SNMP data
- B- Update tools to pull or stream monitoring metrics from APIs instead of using legacy protocols
- C- Identify and capture the key performance indicators that describe the state of the network
- D- Identify and fix network issues faster by leveraging streaming telemetry from network devices

Answer:

C

Explanation:

Updating tools to pull or stream monitoring metrics from APIs instead of using legacy protocols is an important part of a NetDevOps strategy, as it allows for more efficient and automated data collection, as well as better visibility into the user experience. APIs for network monitoring are becoming increasingly common, as they allow for a more direct connection to the devices themselves, and can provide access to more detailed and specific metrics. Cisco's DevOps Solutions and Practices Guide recommends leveraging APIs to monitor the user experience, as they can provide access to more specific metrics and can be integrated with other monitoring tools.

Question 5

Question Type: MultipleChoice

Refer to the exhibit.

```
public class RestaurantEntity {
    private String name;
    private String address;
    private int rating;

    public RestaurantEntity(String name,
                            String address, int rating)
    {
        this.name=name;
        this.address=address;
        this.rating=rating;
    }
}
```

An application has been developed as a fileserver. To create this application as a fileserver. the class is used to store data in an SQL database.

Which two steps help minimize the risk of attack and compromise of the application? (Choose two.)

Options:

- A-** Reject string values that are greater than maximum size
- B-** Use floating point instead of integer for rating to avoid overflow

- C- Validate the content of the name and address parameters
- D- Run the application in a Docker container
- E- Compile the application using Java HotSpot

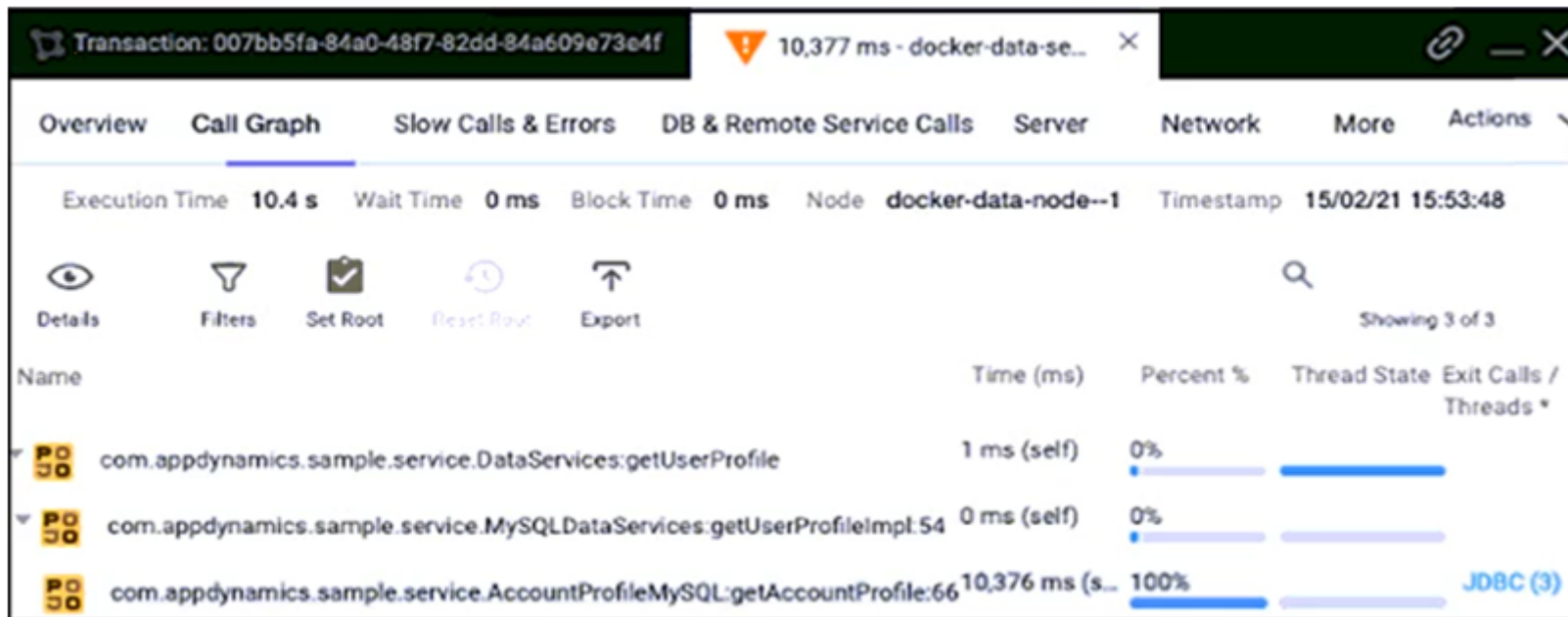
Answer:

A, C

Question 6

Question Type: MultipleChoice

Refer to the exhibit.



A distributed application contains data services that connect to databases via JDBC and to other remote services via HTTP. The overall response time is too long, and AppDynamics is used to investigate the root cause. From the application flow map, a specific data service running on Docker has been identified whose response time is over 10 seconds.

Which action resolves the issue?

Options:

- A-** Change from a JDBC call to a HTTP call to retrieve data faster
- B-** Run the AccountProfileMySQL service in Kubernetes

- C- Explore the JDBC queries looking for optimization opportunities
- D- Verify if the Docker container running MySQL is limiting CPU utilization

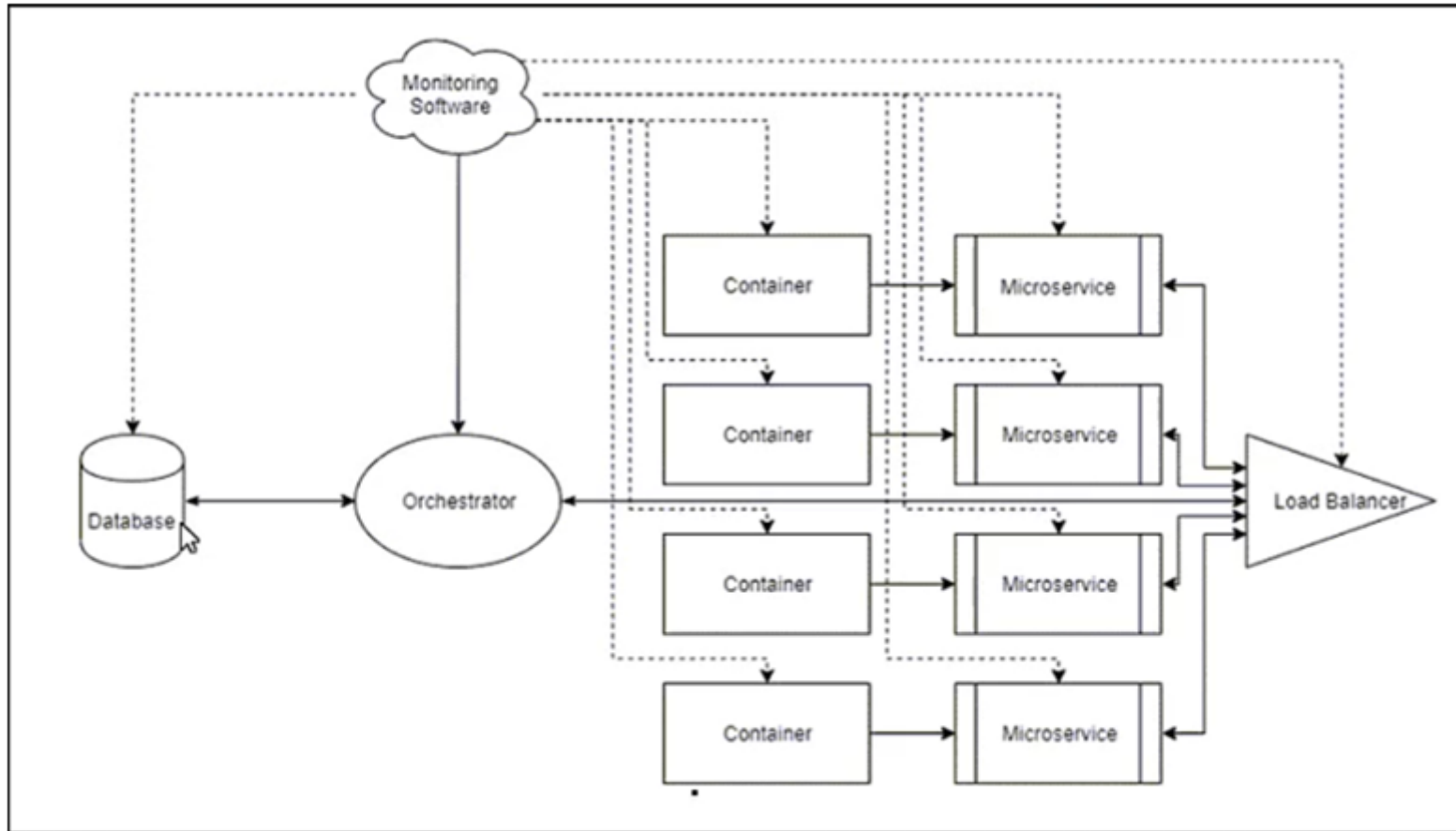
Answer:

C

Question 7

Question Type: MultipleChoice

Refer to the exhibit.



How does the architecture respond to a usage spike?

Options:

- A- The monitoring software instructs the Orchestrator to increase the count of containers and to configure the load balancer accordingly
- B- The database prioritizes quick and immediate queries over complicated ones to reduce the request queue
- C- The Orchestrator increases the resources assigned to containers to increase performance
- D- The load balancer interacts with the Orchestrator to optimize the balancing algorithm to match the incoming flow of requests

Answer:

A

Question 8

Question Type: MultipleChoice

A precheck validation is being designed for the network state in a CI/CD pipeline This design requires:

- * the CI/CD pipeline to spin up test instances.
- * instances must be used to validate changes.
- * changes must be validated prior to a continuous deployment workflow, and
- * then push the changes to production

How should the pipeline target the required environment?

Options:

- A- Use separate CI servers for each environment
- B- Use different pipelines for each environment
- C- Use separate Git repositories for each environment
- D- Use different inventory files for each environment

Answer:

D

Question 9

Question Type: MultipleChoice

What is a practice of infrastructure as code?

Options:

- A- Use multiple version control systems
- B- Document as much as possible
- C- Configure the deployment consistently
- D- Test, integrate, and deploy once a day

Answer:

C

Question 10

Question Type: MultipleChoice

An application for storing and categorizing has been developed. The application uses dual-factor authentication for user access. After authentication, users can upload sensitive data

a. The application has been hacked through system exploits and most of the saved data has been lost.

Which action prevents new security threats in the environment?

Options:

- A- Use self-developed algorithms for encryption
- B- Install virtual firewalls
- C- Actively change the ISP provider
- D- Apply all the latest patches and updates

Answer:

D

Question 11

Question Type: MultipleChoice

A company has a CI/CD pipeline implemented to automate application deployment. An urgent change is required in the production environment. A developer produces and tests the required change in the company's environment, but the pipeline fails when pushed.

Which action conforms to the rules of a CI/CD pipeline and enables the pipeline to pass?

Options:

- A- Remove the failing test.
- B- Manually deploy the change into the production environment
- C- Use a backup pipeline
- D- Replicate the production environment in the pipeline before applying

Answer:

D

Explanation:

This ensures that the change is applied in the same environment that it was tested in, and that the pipeline will pass. This is in accordance with the rule of a CI/CD pipeline that states that the same environment should be used for testing and deploying code into production. As stated in the Cisco Implementing DevOps Solutions and Practices using Cisco Platforms (DEVOPS) Study Manual, "the same environment should be used for testing and deploying code into production, or the pipeline will fail."

Question 12

Question Type: DragDrop

A developer must create a GitLab CI/CD pipeline with these requirements:

- * builds an on-demand test environment

- * deploys configurations

- * verifies the results

Drag and drop the code from the bottom onto the box where the code is missing to complete the GitLab CI/CD pipeline. Not all options are used.

Answer

```
stages:
- [redacted]
- [redacted]
  deploy_to_prod_env

deploy_to_test_env:
  image: devs/ansible:ubuntu1604
  stage: deploy_to_test_env
  script:
    - cd /project/build env/
    - [redacted] apply -auto-approve
    - cd /project/conf/
    - [redacted] -i hosts routers.yml
  environment:
    name: test
  only:
    - test

check_test_environment:
  image: ciscotestautomation/pyats:latest-robot
  stage: check_test_environment
  environment:
    name: test
  only:
    - test
  script:
    - cd project
    - robot --noncritical noncritical --variable testdata:./testdata.yml
test_checks.robot
...
```

ansible	ybook ment	ansible	check_test_environment
deploy form	t_envenv	terraform	deploy

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