



300-910^{Q&As}

Implementing DevOps Solutions and Practices using Cisco Platforms
(DEVOPS)

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QUESTION 1

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

- 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

Correct Answer: B

QUESTION 2

How long analysis systems such as Elasticsearch, Logstash, and Kibana Stack handle ingesting unstructured logs from different devices in various formats?

- A. All devices that generate syslogs must use agents that process the local logs and transmit them in a specific format to the ELK Stack.
- B. All logs are stored in their unstructured text format, and the ELK Stack performs data analysis by intelligently parsing the logs using machine learning algorithms.
- C. All different message formats are parsed separately using custom filters, and the resulting structured data is stored for later analysis.
- D. A single, comprehensive log format is defined on the ELK Stack. All incoming logs, regardless of format, are transformed to match the comprehensive format, and only applicable fields are populated.

Correct Answer: C

The ELK Stack (Elasticsearch, Logstash, and Kibana) can handle ingesting unstructured logs from various devices in different formats by running custom filters on the logs. The filters are designed to parse the log data and extract the relevant, structured information from it, which is then stored for later analysis. This allows for faster and more accurate analysis of the data, and enables more sophisticated insights to be drawn from it.

QUESTION 3

A development team uses Kubernetes for application development. Any changes on ConfigMap are performed manually for each development, test, and production environment. The edits are performed to deploy applications. This approach causes inconsistent deployments across all environments.

Which practice improves the consistency of the deployments?

- A. Implement environment variables within the ConfigMaps and store the variable definitions separately from the master branch where the ConfigMaps are stored



- B. Generate the ConfigMaps specific to the environment by using a templating language such as Jinja2 and store the ConfigMaps in unique branches of a repository
- C. In the master branch where the ConfigMaps are stored, create a branch for each environment that contains an environment-specific ConfigMap.
- D. Create a unique repository for each environment that contains ConfigMaps for that environment to ensure that each environment can be deployed independently

Correct Answer: A

QUESTION 4

A developer is creating an application based on microservices. The application will be used as a central repository for all company's documents. One of the microservices in the application will perform image processing. This microservice must autoscale to meet the current load and avoid down time.

Which metric must be used to trigger autoscaling events?

- A. network
- B. CPU/GPU
- C. disk I/O
- D. memory

Correct Answer: B

QUESTION 5

Which two practices help make the security of an application a more integral part of the software development lifecycle? (Choose two.)

- A. Add a step to the CI/CD pipeline that runs a dynamic code analysis tool during the pipeline execution.
- B. Add a step to the CI/CD pipeline that runs a static code analysis tool during the pipeline execution.
- C. Use only software modules that are written by the internal team.
- D. Add a step to the CI/CD pipeline to modify the release plan so that updated versions of the software are made available more often.
- E. Ensure that the code repository server has enabled drive encryption and stores the keys on a Trusted Platform Module or Hardware Security Module.

Correct Answer: AB

Adding a step to the CI/CD pipeline that runs a dynamic code analysis tool and a static code analysis tool during the pipeline execution helps make the security of an application a more integral part of the software development lifecycle. Dynamic code analysis tools search for coding errors and vulnerabilities while the application is running, while static code analysis tools scan the source code for potential errors and vulnerabilities. This ensures that any security issues are identified and addressed before the application is deployed. Additionally, using automated tools helps to reduce the



amount of manual effort required for security testing and can reduce the risk of security flaws being introduced.

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