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Shared by Knowles on 29-01-2024

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Question 1

An application has been designed based on microservices. The application is deployed on Kubernetes using multiple pods that share the same IP address. Each pod is responsible for a service in the application.

Which command validates the success of the application deployment?

Options:

A- kubectl get pods -o wide -w

B- kubectl rollout status deployment

C- kubectl describe pods/

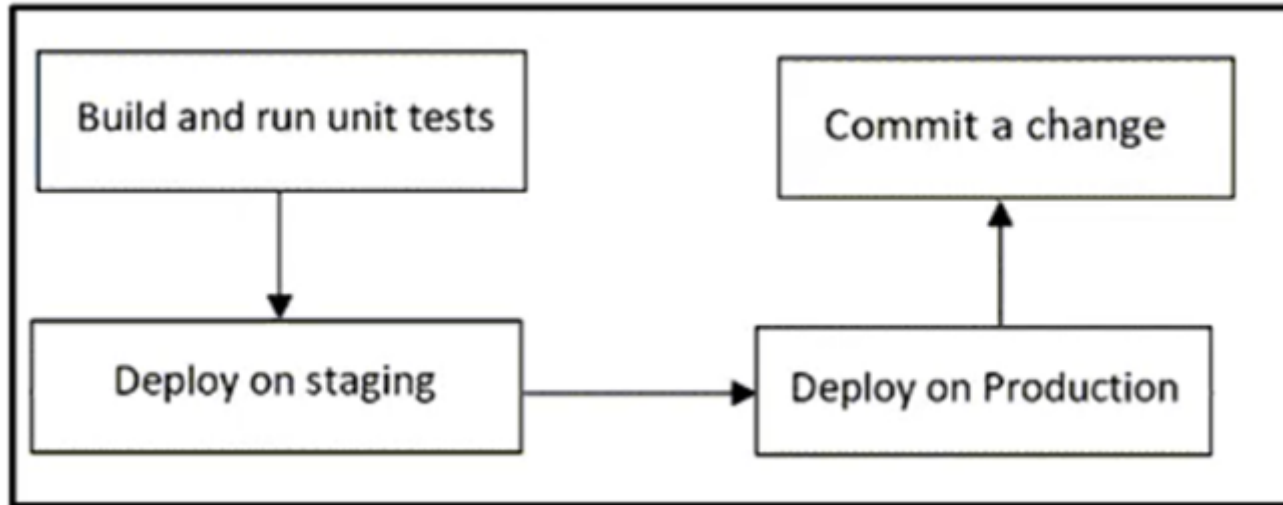**D-** kubectl rollout history deployment

Answer:

A

Question 2

Refer to the exhibit.

An organization has issues with code-based failures after implementing a CI/CD pipeline to automate the builds and deployment phases of an application.

Which action must be added to the pipeline, after the application is deployed in the staging environment to minimize failures and to ensure a successful continuous deployment?

Options:

A- Restructuring and monitoring tests must be run after it is promoted to production

B- Restructuring and monitoring tests must be run before it is promoted to production

C- Functional and nonfunctional tests must be run after it is promoted to production

D- Functional and nonfunctional tests must be run before it is promoted to production

Answer:

D

Explanation:

According to Cisco's Implementing DevOps Solutions and Practices using Cisco Platforms (DEVOPS) Study Manual, it is important to run functional and non-functional tests before promoting the application to production. This is essential in order to identify and address any issues that could cause code-based failures. Additionally, a pipeline should include automated tests that can be used to verify that processes are running correctly. By running these tests before promoting to production, you can ensure that any potential issues are identified and addressed before the application is released.

Question 3

Question Type: DragDrop

A DevOps engineer is designing a precheck validation of the network state in a CI/CD pipeline and must implement this workflow:

* Take a source Docker image named alpine

* Define two stages named build and push

* Check network connectivity before the stages run

* Fetch the latest Docker image

* Create a new Docker image and push it to the registry

* Tag the new Docker image as the latest version

Drag and drop the code snippets from the bottom onto the boxes in the GitLab CI configuration to achieve the requirements for the design. Not all options are used.

```
before_script

ping $DEFAULT_GATEWAY -c 1
                                          -ci-token

docker build

docker tag

script:
  -                                    --pull --build-arg VCS_REF=$CI_COMMIT_SHA

  --build-arg VCS_URL=$CI_PROJECT_URL --tag $CI_REGISTRY_IMAGE:$CI_COMMIT_SHA

Push:
  stage: push
  script:

  -                                    $CI_REGISTRY_IMAGE:$CI_COMMIT_SHA .

  -                                    docker push $CI_REGISTRY_IMAGE:latest

docker tag    :ATEWAY -c 1        ping $DEFAULT_GATEWAY -c 1
        telnet                           telnet
```

Question 4

Question Type: MultipleChoice

An application is being developed to be used by the HR department of a company on a global scale. The application will be used as a central repository for employee contracts. For user access, a RADIUS server will be used with authorized user groups.

Which action must be used to prevent developers from accidentally committing secrets in the code?

Options:

A- Add a unit test to block the secrets

B- Add a precommit Git hook to block the secrets

C- Add dast to the repository to block the secrets

D- Add a job in the CI build to block the secrets

Question 5

Question Type: MultipleChoice

What is an advantage of using configuration management tools to automate infrastructure services?

Options:

A- eliminates the need to run integration tests within the CI/CD pipeline

B- provides high native monitoring of services

C- eliminates the need for CI/CD tools

D- integrates with container orchestration

Answer:

D

Question 6

An organization is developing an application using Git. Each team member is assigned to work on specific parts of the application. At the end of each task, individual code parts are merged in the main build.

Which two requirements should be implemented to increase the likelihood of continuous integration? (Choose two.)

Options:

A- Changes must be scheduled to deploy at a specific time that has minimal traffic

B- Changes must include automated tests

C- Changes must be validated during deployment to the production environment

D- Smaller, individually testable changes must be merged first

E- Team members must be responsible for the code committed by any team member

Answer:

B, C

Question 7

Refer to the exhibit.

```
$ kubectl create deployment hello-app --
image=k8s.gcr.io/echoserver:1.4
deployment.apps/hello-app created

$ kubectl get pods
NAME                             READY   STATUS    RESTARTS   AGE
hello-app-857b7d747f-xg8kj       1/1     Running   0          35s

$ kubectl get services
NAME         TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)    AGE
kubernetes   ClusterIP   10.96.0.1    <none>        443/TCP    44h
```

Which action allows the development team to reach the deployed application?

Options:

A- Create an init container to initialize routes for the containers in the pod

B- Create a service to expose the logic running in the pod

C- Delete the deployment and redeploy by using a ReplicaSet.

D- Delete the deployment and redeploy by using the latest tag for the container image

Answer:

B