

Test Your Knowledge – Integrating Jenkins with Container-based Delivery

1. Which of the following is NOT a benefit of container-based delivery?
 - Portability
 - Consistency
 - Isolation
 - **Direct access to hardware**
2. What is the purpose of using Docker agents in Jenkins?
 - To replace Jenkins entirely
 - **To run Jenkins jobs in isolated and reproducible environments**
 - To eliminate the need for version control systems
 - To deploy applications directly to production
3. What is the purpose of continuous deployment in the context of container-based delivery?
 - To manually deploy applications to production
 - To store container images in a registry
 - **To automatically deploy applications to production on every successful build and test**
 - To replace the need for Jenkins pipelines
4. What is the purpose of Kubernetes deployment manifests?
 - **To define the desired state of an application in Kubernetes**
 - To store container images in a registry
 - To replace Jenkins pipelines
 - To manage user authentication in Kubernetes
5. Which of the following is NOT a step in deploying applications to Kubernetes using Jenkins pipelines?
 - Preparing Kubernetes deployment manifests
 - Configuring Kubernetes credentials in Jenkins
 - Updating Jenkins pipelines to deploy to Kubernetes
 - **Manually logging into Kubernetes nodes to deploy applications**
6. Which of the following is an example of container orchestration platforms?
 - Docker
 - **Kubernetes**
 - Jenkins

- Git
7. Which command is used to build Docker images in Jenkins pipelines?
- docker run
 - docker push
 - **docker build**
 - docker pull
8. What is the role of Kubernetes in container orchestration?
- It provides a graphical user interface for managing containers
 - It replaces the need for Jenkins in CI/CD pipelines
 - **It enables the deployment, scaling, and management of containerized applications**
 - It is a version control system for storing container images
9. What is the benefit of using rolling updates in Kubernetes?
- To perform full application restarts during deployments
 - **To update applications without any downtime**
 - To eliminate the need for Jenkins pipelines
 - To store container images in a registry
10. Which Jenkins plugin is used to integrate with Kubernetes?
- Docker plugin
 - **Kubernetes plugin**
 - Container orchestration plugin
 - Pipeline plugin