SPAIC
• SINCE 2019 •
• SCHOLARS •

Enhance your Cloud-Native Fundamentals SuperPower

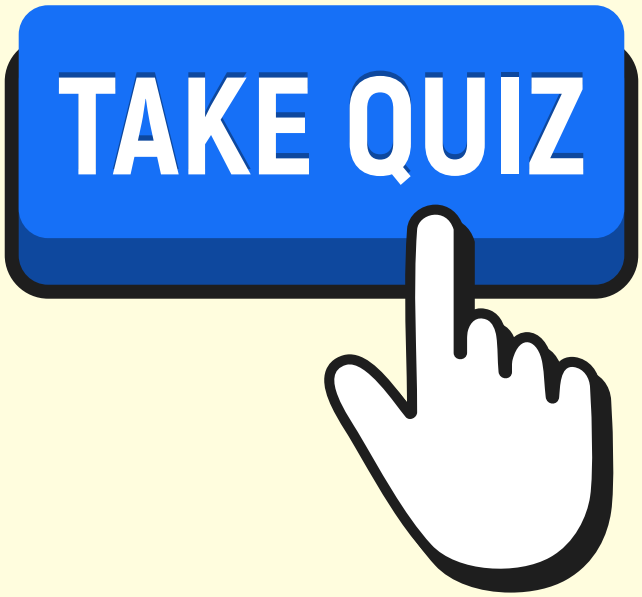
Weekly **Quiz**

Lesson - 3

What we have to cover in this quiz?

This week's quiz focused on Lesson: 3 (Container Orchestration with Kubernetes)

- Docker for Application packaging
- Container Orchestration with Kubernetes
- Kubernetes Resources
- Declarative Kubernetes Manifests



Q1. In the context of Kubernetes, what is a container?

a) An application environment installed on software that imitates dedicated hardware

b) A package that relies on virtual isolation technology to deploy and run applications that access a shared OS kernel

c) A large metal box that is used to hold or transport something

d) A unit that stores data on a computer's memory drive

Q2. What is a pod in Kubernetes and what does it do?

a) A collection of physical IT components that supports a group of containers

b) A collection of logic circuitry that evaluates a computer's operational code

c) Where you find peas

d) One or more containers grouped together to share resources and run as a unit

Q3. What is the function of a node?

a) To communicate with hosts on a network

b) To communicate with hosts on a network

c) To run pods according to master components

d) To channel incoming data from multiple input ports to a specific port

Q4. Generally, what is a proxy service used for?

a) To supplant an authentic webpage in a search engine's index and search page results

b) To connect external parties and route data between internal and external containers

c) To act as an intermediary between an endpoint device and another server

d) To relay connection requests for inbound network traffic

Q5. Which one is used to store non-confidential data in the container orchestration mechanism?

a) Secrets

b) Namespaces

c) API server

d) None of the above

Q6. The application context is associated with?

a) Secrets
b) Namespaces
c) Replicas
d) None

Q7. The application in Kubernetes is scaled by pods?

a) True
b) False

Q8. Which is considered as "node agent" that runs on each node. From a business perspective, what does not represent the adoption of cloud-native tooling?

a) Kubelet
b) Kube scheduler
c) kubeconfig
d) None of the above

Q9. How do you list only running containers?

a) ps
b) docker ps -a
c) docker ps
d) None of Above

Q10. How do you mount a host’s fi les system onto thecontainer’s filesystem?

a) using -v flag with the run command
b) docker mount
c) docker run -m
d) none of above

Q11. How to access the interactive bash terminal of a running container?

a) docker run -it <image_name> bash
b) docker exec -it <container_name> bash
c) docker run <container_name> bash
d) docker run <image_name> bash

Q12. Mark all the commands which created layers while buildingan Image?

a) COPY
b) RUN
c) CMD
d) ADD

Q13. What is the purpose of using Dockerfile?

a) Set of instructions to create a docker image
b) A read-only template that is used to spinup containers
c) To install project dependencies
d) None of the above

Q14. What is the mission of the control plane?

a) To manage clusters of pods
b) To regulate communication between Kubernetes and clusters
c) To move workloads from one host to another
d) To control nodes

Q15. What is the function of labels?

a) Deprecated feature
b) To tag containers and link them together in groups
c) To assign functions to pods
d) To be ignored by millennials

Answer Key

1. b	5. d	9. c	13. a
2. d	6. b	10. a	14. b
3. c	7. a	11. b	15. b
4. c	8. a	12. a,b,d	

Result:

Link: https://drive.google.com/file/d/1rBM-l6otVJVcxPgLvYQyLHkmVfcUsl7h/view?usp=sharing

Thank you!