

MLOps-Container-DA-07

1. The primary goal of MLOps is to
 - (A) Reduce model accuracy
 - (B) Bridge gap between ML development and operations
 - (C) Replace DevOps entirely
 - (D) Increase model complexity

2. Which of the following is NOT a stage in the MLOps lifecycle
 - (A) Data collection
 - (B) Model deployment
 - (C) Model destruction
 - (D) Model monitoring

3. MLOps integrates concepts mainly from
 - (A) DevOps and Data Science
 - (B) Cybersecurity and Networking
 - (C) Big Data and Cloud Storage
 - (D) Blockchain and IoT

4. Which phase of MLOps focuses on real-time prediction and feedback
 - (A) Deployment
 - (B) Monitoring
 - (C) Training
 - (D) Data preprocessing

5. Model drift refers to
 - (A) Model training failure
 - (B) Change in data patterns over time causing reduced accuracy
 - (C) Container migration
 - (D) Overfitting due to noise

6. What is Docker used for?

- ☐ (A) Operating system installation
- ☐ (B) Virtual machine creation
- ☐ (C) Containerization of applications
- ☐ (D) Data visualization

7. A Docker container is:

- ☐ (A) A lightweight virtual machine
- ☐ (B) An isolated environment to run an application
- ☐ (C) A network configuration tool
- ☐ (D) A storage disk image

8. The command to list all Docker containers is:

- ☐ (A) docker list
- ☐ (B) docker ps
- ☐ (C) docker show
- ☐ (D) docker -a

9. The Dockerfile instruction FROM specifies:

- ☐ (A) The container output
- ☐ (B) The base image for the build
- ☐ (C) The port number
- ☐ (D) The execution script

10. Which component of Docker runs containers?

- ☐ (A) Docker Client
- ☐ (B) Docker Daemon
- ☐ (C) Docker Registry
- ☐ (D) Docker Hub

11. The command `docker build -t myimage .` does what?

- ☐ (A) Builds a Docker image from a Dockerfile
- ☐ (B) Runs a Docker container
- ☐ (C) Pulls an image from Docker Hub
- ☐ (D) Lists images

12. The command `docker run -p 5000:5000 myapp` means:

- ☐ (A) Runs a container on port 5000 inside and outside host
- ☐ (B) Connects two containers
- ☐ (C) Pulls a container image
- ☐ (D) Deletes a container

13. Which command removes a running container?

- ☐ (A) `docker stop`
- ☐ (B) `docker delete`
- ☐ (C) `docker halt`
- ☐ (D) `docker end`

14. A key difference between containers and virtual machines is:

- ☐ (A) Containers have their own OS kernel
- ☐ (B) Containers share the host OS kernel
- ☐ (C) Containers use more memory
- ☐ (D) Containers are hardware-based

15. To push a Docker image to Docker Hub, which command is used?

- ☐ (A) `docker upload`
- ☐ (B) `docker push`
- ☐ (C) `docker deploy`
- ☐ (D) `docker export`

16. What is meant by "deployment" in MLOps?

- ☐ (A) Building a model
- ☐ (B) Installing Python
- ☐ (C) Making an ML model available for use
- ☐ (D) Collecting data

17. Which of the following is NOT a deployment strategy?

- ☐ (A) Recreate
- ☐ (B) Blue-Green
- ☐ (C) Rolling Update
- ☐ (D) Data Augmentation

18. In a Blue-Green deployment, the main goal is to:

- ☐ (A) Run two environments to ensure zero downtime
- ☐ (B) Replace the model manually
- ☐ (C) Reduce CPU usage
- ☐ (D) Increase retraining speed

19. Canary deployment means

- ☐ (A) Deploying model to a small subset of users first
- ☐ (B) Deploying model directly to all users
- ☐ (C) Using containers for testing
- ☐ (D) Manual validation after deployment

20. Shadow deployment differs from canary deployment by

- ☐ (A) Running new version in parallel without user impact
- ☐ (B) Completely replacing the old version
- ☐ (C) Using zero containers
- ☐ (D) Deploying only on weekends