#### 1. What does DevOps stand for?

- o a) Development and Optimization
- o b) Development and Operations
- o c) Deployment and Services
- d) Development and Strategy

Answer: b) Development and Operations

# 2. What is a key benefit of DevOps?

- o a) Slower delivery
- o b) Improved collaboration
- c) High maintenance costs
- o d) Limited scalability

**Answer**: b) Improved collaboration

#### 3. Which is a cultural benefit of DevOps?

- o a) Continuous testing
- o b) Higher employee engagement
- o c) Automated deployment
- o d) Virtualization

Answer: b) Higher employee engagement

# 4. Which phase is considered the heart of the DevOps lifecycle?

- o a) Continuous Testing
- o b) Continuous Integration
- o c) Continuous Deployment
- o d) Continuous Monitoring

Answer: b) Continuous Integration

# 5. Which tool is NOT used for Continuous Deployment?

- o a) Chef
- o b) Puppet
- o c) Selenium
- o d) Ansible

**Answer**: c) Selenium

# 2. Introduction to AWS

#### 6. What type of cloud computing does AWS NOT provide?

- o a) SaaS
- o b) IaaS
- o c) PaaS
- o d) CaaS

Answer: d) CaaS

#### 7. What is the purpose of Amazon S3?

- o a) To provide scalable storage
- o b) To deliver content
- o c) To monitor applications
- o d) To manage DNS services

**Answer**: a) To provide scalable storage

#### 8. Which AWS service offers relational database support?

- o a) EC2
- o b) S3

- o c) RDS
- o d) VPC

Answer: c) RDS

#### 9. Which of the following is a CDN service by AWS?

- o a) S3
- o b) CloudFront
- o c) VPC
- o d) DynamoDB

**Answer**: b) CloudFront

# 10. What is an availability zone in AWS?

- a) A caching mechanism
- b) A logical data center
- c) A virtual machine
- d) A cloud database

Answer: b) A logical data center

#### 3. Introduction to GCP

#### 11. What does GCP stand for?

- a) Google Cloud Product
- b) Google Compute Platform
- c) Google Cloud Platform
- d) General Cloud Platform

Answer: c) Google Cloud Platform

#### 12. Which GCP service handles virtual machines?

- a) Cloud Storage
- b) Compute Engine
- c) BigQuery
- d) Cloud DNS

Answer: b) Compute Engine

# 13. Which service in GCP is used for DNS management?

- a) Cloud DNS
- b) Cloud AI
- c) BigQuery
- d) VPC

**Answer**: a) Cloud DNS

#### 14. Which GCP feature is used for large-scale data analytics?

- a) Cloud AI
- b) BigQuery
- c) Cloud Functions

• d) Kubernetes

**Answer**: b) BigQuery

# 15. What type of environment does GCP offer for serverless computing?

- a) VMs
- b) SaaS
- c) IaaS
- d) PaaS

Answer: d) PaaS

# 4. Introduction to Azure

#### 16. What was the former name of Microsoft Azure?

- a) Azure Cloud
- b) Windows Azure
- c) Microsoft Cloud
- d) CloudNet

**Answer**: b) Windows Azure

# 17. Which Azure service is used for file storage?

- a) Blob Storage
- b) Queue Storage
- c) File Storage
- d) Table Storage

Answer: c) File Storage

# 18. Which domain in Azure handles scalability?

- a) Networking
- b) Database
- c) Storage
- d) Compute

Answer: a) Networking

# 19. Which database service is NOT offered by Azure?

- a) MySQL
- b) PostgreSQL
- c) DynamoDB
- d) Cosmos DB

**Answer**: c) DynamoDB

#### 20. Which feature of Azure ensures cost-effectiveness?

• a) Auto Scaling

- b) Blob Storage
- c) Flexibility
- d) Strong Analytics Support

**Answer**: c) Flexibility

#### 5. Git and GitHub

#### 21. What type of version control system is Git?

- a) Centralized
- b) Distributed
- c) Local
- d) Hosted

**Answer**: b) Distributed

# 22. What is the function of the git init command?

- a) Start a new branch
- b) Clone a repository
- c) Initialize a Git repository
- d) Commit changes

Answer: c) Initialize a Git repository

#### 23. Which of these is a feature of GitHub?

- a) Hosting Git repositories
- b) Managing cloud databases
- c) Tracking real-time analytics
- d) CI/CD automation

Answer: a) Hosting Git repositories

# 24. What does the git add command do?

- a) Stages files for commit
- b) Commits changes
- c) Deletes a file
- d) Tracks branch changes

Answer: a) Stages files for commit

# 25. Which is NOT a part of Git workflow?

- a) Untracked files
- b) Working directory
- c) Testing environment
- d) Staging area

Answer: c) Testing environment

# 6. General DevOps Tools

# 26. Which tool is used for Continuous Integration?

- a) Jenkins
- b) Docker
- c) Kubernetes
- d) Chef

Answer: a) Jenkins

# 27. What is the main focus of Continuous Monitoring in DevOps?

- a) Automating deployment
- b) Gathering operational data
- c) Building artifacts
- d) Code integration

Answer: b) Gathering operational data

#### 28. Which tool is used for container orchestration?

- a) Ansible
- b) Kubernetes
- c) Puppet
- d) Nagios

**Answer**: b) Kubernetes

#### 29. Which phase of the DevOps lifecycle uses Selenium?

- a) Continuous Testing
- b) Continuous Deployment
- c) Continuous Integration
- d) Continuous Operations

Answer: a) Continuous Testing

#### 30. What is the main goal of Continuous Feedback in DevOps?

- a) To deploy code faster
- b) To gather customer behavior insights
- c) To automate testing
- d) To configure servers

Answer: b) To gather customer behavior insights

# 1. What does Maven primarily manage?

- o a) Servers
- o b) Dependencies
- o c) User Interfaces
- o d) Network Protocols

**Answer:** b) Dependencies

# 2. Which file does Maven use for project configuration?

o a) build.xml

- o b) pom.xml
- o c) config.json
- o d) settings.xml

Answer: b) pom.xml

- 3. What is Maven based on?
  - o a) XML-RPC
  - o b) REST APIs
  - o c) Project Object Model (POM)
  - o d) YAML configuration

**Answer:** c) Project Object Model (POM)

- 4. What is the default location for Maven's local repository?
  - o a) C:/maven/repo
  - o  $b) \sim /.m2/repository$
  - o c) /usr/local/maven
  - o d)/opt/repo/maven

**Answer:** b) ~/.m2/repository

# **Maven Build Lifecycle**

- 5. Which Maven build lifecycle phase compiles the source code?
  - o a) validate
  - o b) compile
  - o c) package
  - o d) install

Answer: b) compile

- 6. What happens during the 'package' phase in Maven?
  - o a) Source code is compiled
  - o b) A JAR or WAR file is created
  - o c) Dependencies are resolved
  - o d) Code is validated

Answer: b) A JAR or WAR file is created

- 7. What is the primary function of the deploy phase in Maven?
  - o a) Deploy to the local repository
  - o b) Deploy to a remote repository
  - o c) Deploy to central repository
  - o d) Deploy to a Maven plugin

**Answer:** b) Deploy to a remote repository

#### **POM File**

- 8. What is the root element in a Maven POM file?
  - o a) <dependencies>
  - o b) o
  - o c) < build>

o d) <plugin>

**Answer:** b)

- 9. Which element in POM specifies the unique identifier for the project group?
  - o a) artifactId
  - o b) groupId
  - o c) name
  - o d) version

Answer: b) groupId

- 10. Which tag in POM defines external libraries required for the project?
- a) <plugin>
- b) <dependency>
- c) <repository>
- d) <resource>

**Answer:** b) <dependency>

# **Maven Repositories**

- 11. Where does Maven first look for dependencies?
- a) Central Repository
- b) Local Repository
- c) Remote Repository
- d) Source Repository

**Answer:** b) Local Repository

- 12. What is the URL of Maven's central repository?
- a) https://maven.repo.com
- b) https://repo.maven.apache.org/maven2
- c) https://maven.apache.com/repo
- d) https://central.maven.com

**Answer:** b) https://repo.maven.apache.org/maven2

# **Maven Plugins**

- 13. Which Maven plugin compiles Java source code?
- a) Surefire Plugin
- b) Jar Plugin
- c) Compiler Plugin
- d) Assembly Plugin

Answer: c) Compiler Plugin

14. Which plugin is used to run unit tests in Maven?

- a) Javadoc Plugin
- b) PMD Plugin
- c) Surefire Plugin
- d) War Plugin

**Answer:** c) Surefire Plugin

#### **Maven Goals**

# 15. Which goal validates the availability of necessary data for the build?

- a) validate
- b) compile
- c) package
- d) test

**Answer:** a) validate

# 16. Which command cleans up the build directory in Maven?

- a) mvn build
- b) mvn validate
- c) mvn clean
- d) mvn compile

Answer: c) mvn clean

#### **Gradle Basics**

# 17. What language is primarily used for Gradle build scripts?

- a) XML
- b) Groovy
- c) YAML
- d) JSON

Answer: b) Groovy

# 18. Which command builds a project using Gradle?

- a) gradle package
- b) gradle build
- c) gradle run
- d) gradle compile

**Answer:** b) gradle build

# 19. What is the equivalent of POM in Gradle?

- a) settings.gradle
- b) pom.gradle

- c) build.gradle
- d) gradle.xml

Answer: c) build.gradle

# **Dependency Management**

# 20. What is the main advantage of Maven dependency management?

- a) Faster IDE
- b) Manual updates
- c) Automatic version updates
- d) Reduced build size

Answer: c) Automatic version updates

# 21. What does Maven do when a dependency is not in the local repository?

- a) Searches the internet
- b) Downloads it from the central repository
- c) Ignores the dependency
- d) Logs an error

Answer: b) Downloads it from the central repository

#### Miscellaneous

#### 22. What does the term 'artifact' in Mayen refer to?

- a) A dependency
- b) A build configuration
- c) The output of the project build
- d) An XML configuration

**Answer:** c) The output of the project build

# 23. Which Maven command creates a new project?

- a) mvn create
- b) mvn init
- c) mvn archetype:generate
- d) mvn build

Answer: c) mvn archetype:generate

# 24. In Maven, what does the 'install' goal do?

- a) Deploys the project to central repository
- b) Deploys the project to a remote repository
- c) Installs the project to the local repository

• d) Installs plugins

Answer: c) Installs the project to the local repository

# 25. Which lifecycle phase is responsible for running integration tests?

• a) verify

• b) test

• c) package

• d) deploy

Answer: a) verify

# **True/False Questions**

26. Maven supports only Java projects.

**Answer:** False

27. Gradle is faster than Maven due to incremental builds.

**Answer:** True

28. The groupId is unique for every Maven project.

**Answer:** True

29. Remote repositories store dependencies locally on your system.

**Answer:** False

**The mvn deploy com** 1. Jenkins is primarily written in which programming language?

- a) Python
- b) Ruby
- c) Java
- d) C++

Answer: c) Java

- 2. What is the main purpose of Jenkins in the DevOps workflow?
  - a) Source code version control
  - b) Continuous Integration
  - c) Cloud deployment
  - d) Monitoring server health

**Answer:** b) Continuous Integration

- 3. Which of the following is NOT a feature of Jenkins?
  - a) Easy installation
  - b) Available plugins
  - c) Manual code testing
  - d) Platform independence

Answer: c) Manual code testing

- 4. Jenkins architecture is based on which model?
  - a) Peer-to-peer
  - b) Client-server
  - c) Master-slave
  - d) Monolithic

Answer: c) Master-slave

- 5. Which protocol is used for communication between Jenkins Master and Slave?
  - a) HTTP
  - b) TCP/IP
  - c) FTP
  - d) UDP

Answer: b) TCP/IP

- 6. What type of job is ideal for automating simple tasks like running tests or packaging applications?
  - a) Maven Project
  - b) Pipeline
  - c) Freestyle Project
  - d) Multi-configuration Project
     Answer: c) Freestyle Project
- 7. Where can you find the option to install plugins in Jenkins?
  - a) Manage Plugins
  - b) Manage Jobs
  - c) Job Dashboard
  - d) Source Code Management
     Answer: a) Manage Plugins
- 8. Which plugin allows Jenkins to integrate with Git repositories?
  - a) HTML Publisher Plugin
  - b) Git Plugin
  - c) Extended Choice Parameter Plugin
  - d) Copy Artifact Plugin

Answer: b) Git Plugin

- 9. What is a cron expression used for in Jenkins?
  - a) Defining a plugin update schedule
  - b) Specifying build frequency
  - c) Triggering webhooks
  - d) Creating backup jobs

Answer: b) Specifying build frequency

#### 10. In Jenkins, what does the 'Build Now' button do?

- a) Configures the job
- b) Schedules a build
- c) Starts the job immediately
- d) Restarts Jenkins

Answer: c) Starts the job immediately

#### 11. Jenkins workspace is used for:

- a) Storing configuration files
- b) Hosting web applications
- c) Performing build operations
- d) Running scheduled backups

**Answer:** c) Performing build operations

#### 12. Which Jenkins build trigger listens for changes in a Git repository?

- a) Scheduled Trigger
- b) GitHub hook trigger
- c) Poll SCM
- d) Manual Trigger

Answer: b) GitHub hook trigger

#### 13. What command is used to install a plugin using Jenkins CLI?

- a) install-cli-plugin
- b) install-plugin
- c) add-plugin
- d) jenkins-plugin-install
   Answer: b) install-plugin

#### 14. Which of the following is a disadvantage of Jenkins?

- a) Free to use
- b) Maintenance overhead
- c) Rich plugin ecosystem
- d) Platform independence

Answer: b) Maintenance overhead

#### 15. How can sensitive data be handled in Jenkins builds?

- a) Using secret text(s) or file(s)
- b) Encrypting the Jenkins workspace
- c) Restricting user roles
- d) Using pipeline scripts

**Answer:** a) Using secret text(s) or file(s)

- 16. Which field in a cron expression represents months?
  - a) 1st field
  - b) 2nd field
  - c) 4th field
  - d) 5th field

Answer: c) 4th field

- 17. What is Jenkins' default port?
  - a) 80
  - b) 443
  - c) 8080
  - d) 8888

**Answer:** c) 8080

- 18. Jenkins supports integration with which source code management system by default?
  - a) Git
  - b) SVN
  - c) Mercurial
  - d) All of the above

Answer: d) All of the above

- 19. Which option in Jenkins allows the execution of post-build actions?
  - a) Source Code Management
  - b) Build Environment
  - c) Post-build Actions
  - d) Build Steps

Answer: c) Post-build Actions

- 20. What does the 'Quiet Period' setting in Jenkins do?
  - a) Delays build execution
  - b) Reduces console output
  - c) Suspends user logins
  - d) Silences notifications

**Answer:** a) Delays build execution

- 21. Which plugin is used to publish HTML reports in Jenkins?
  - a) HTML Publisher Plugin
  - b) Git Plugin
  - c) Parameter Plugin
  - d) Extended Choice Parameter Plugin

Answer: a) HTML Publisher Plugin

- 22. What is the primary function of a Jenkins Slave?
  - a) Managing plugins
  - b) Scheduling jobs
  - c) Executing builds
  - d) Archiving artifacts

Answer: c) Executing builds

- 23. The process of checking a repository for changes at regular intervals in Jenkins is called:
  - a) Poll SCM
  - b) Git push
  - c) Repository polling
  - d) Webhook polling
     Anguage a) Ball SCM

Answer: a) Poll SCM

- 24. Which field in the Jenkins job configuration allows you to define dependencies on other jobs?
  - a) Source Code Management
  - b) Build Triggers
  - c) Build Steps
  - d) Post-build Actions

Answer: b) Build Triggers

- 25. How can Jenkins administrators restrict where a project can run?
  - a) Using Master-only mode
  - b) Restrict where this project can be run
  - c) Setting up firewall rules
  - d) Disabling certain jobs

Answer: b) Restrict where this project can be run

- 26. Jenkins is widely used because it:
  - a) Reduces manual testing
  - b) Supports only Java applications
  - c) Requires no plugins
  - d) Runs exclusively on Linux

Answer: a) Reduces manual testing

- 27. How can you specify credentials for a private Git repository in Jenkins?
  - a) In Source Code Management settings
  - b) In the Jenkins workspace
  - c) Using an API key
  - d) Adding a webhook

**Answer:** a) In Source Code Management settings

28. Which plugin allows Jenkins to deploy applications to Amazon EC2?

- a) Git Plugin
- b) EC2 Plugin
- c) HTML Publisher Plugin
- d) AWS Tools Plugin

Answer: b) EC2 Plugin

29. What type of job is used for complex build configurations with multiple environments?

- a) Pipeline
- b) Multi-configuration project
- c) Freestyle project
- d) Maven project

Answer: b) Multi-configuration project

30. Which feature of Jenkins allows scheduling a build to run at a specific time?

- a) GitHub hook trigger
- b) Poll SCM
- c) Build periodically
- d) Parameterized builds

Answer: c) Build periodically

- Here are 30 multiple-choice questions (MCQs) based on **Unit 4 Configuration Management Using Ansible** with answers provided:
- 1. What is Ansible primarily used for?
- a) Web development
  - b) IT automation
  - c) Data analysis
  - d) Software testing

**Answer:** b) IT automation

- 2. What is the default communication protocol used by Ansible to connect to nodes?
- a) FTP
  - b) HTTP
  - c) SSH
  - d) TCP

Answer: c) SSH

- 3. Which file format does Ansible use for playbooks?
- a) JSON
  - b) XML
  - c) YAML
  - d) INI

**Answer:** c) YAML

• 4. What does YAML stand for?

- a) Yet Another Markup Language
  - b) YAML Ain't Markup Language
  - c) Both a and b
  - d) None of the above

**Answer:** c) Both a and b

# • 5. Which of the following is a key characteristic of Ansible?

- a) Agentless architecture
  - b) Requires a dedicated database
  - c) Uses JSON playbooks
  - d) Only works on Linux

Answer: a) Agentless architecture

# • 6. How does Ansible manage nodes?

- a) By installing permanent agents on them
  - b) By pushing small programs called modules to them
  - c) By running SQL commands on them
  - d) Through FTP communication

Answer: b) By pushing small programs called modules to them

# • 7. What is the purpose of an inventory file in Ansible?

- a) To store playbook logs
  - b) To list managed nodes
  - c) To track Ansible versions
  - d) To define Ansible modules

**Answer:** b) To list managed nodes

# • 8. Which of the following is not a common module in Ansible?

- a) Command
  - b) Copy
  - c) Package
  - d) Connect

Answer: d) Connect

# 9. What symbol is used for comments in YAML?

- a) //
  - b) #
  - c) <!-- -->

d);

Answer: b) #

# 10. In YAML, how do you define a list?

- a) Using curly braces {}
  - b) Using square brackets []
  - c) Using dashes -
  - d) Using colons:

Answer: c) Using dashes -

11. Which of these is a valid YAML key-value pair?

- a) key:value b) key = value c) key -> value d) key::value Answer: a) key: value 12. Which Ansible command is used to check connectivity to nodes? • a) ansible all -m ping b) ansible --check c) ansible all --connect d) ansible-playbook -check Answer: a) ansible all -m ping • 13. What is the file extension for YAML files? • a) .yaml b) .yml c) Both a and b d) .ansible **Answer:** c) Both a and b 14. Which Ansible module is used to install a package? a) Shell b) Service c) Package d) Copy Answer: c) Package 15. What does state=present indicate in a playbook? • a) The module should be skipped b) The resource should be created or installed c) The resource should be removed d) The task is complete **Answer:** b) The resource should be created or installed 16. How does Ansible handle multi-line values in YAML? a) Using | b) Using > c) Using both a and b d) Using # **Answer:** c) Using both a and b • 17. Which component in Ansible defines the target hosts? a) Variables b) Modules c) Inventory d) Handlers **Answer:** c) Inventory
- 18. What is the command to execute an Ansible playbook?

- a) ansible --playbook
  - b) ansible-playbook
  - c) run-playbook
  - d) execute-ansible

Answer: b) ansible-playbook

# • 19. In Ansible, what are roles primarily used for?

- a) Debugging playbooks
  - b) Organizing and reusing tasks
  - c) Connecting to hosts
  - d) Storing logs

Answer: b) Organizing and reusing tasks

# 20. Where does Ansible look for the default inventory file?

- a) /etc/ansible/hosts
  - b) /usr/ansible/hosts
  - c) /var/ansible/inventory
  - d) /home/ansible/hosts

**Answer:** a) /etc/ansible/hosts

# • 21. Which YAML data type is supported?

- a) Strings
  - b) Numbers
  - c) Booleans
  - d) All of the above

**Answer:** d) All of the above

# • 22. What is the primary advantage of YAML in Ansible?

- a) Complex syntax
  - b) Machine-readable only
  - c) Human-readable and simple
  - d) Requires strict indentation rules

Answer: c) Human-readable and simple

# • 23. What does the gather\_facts option in a playbook do?

- a) Runs all tasks
  - b) Collects information about remote hosts
  - c) Installs Ansible on remote hosts
  - d) Deletes temporary modules

**Answer:** b) Collects information about remote hosts

# • 24. Which option is used to specify a module in an ad-hoc Ansible command?

- a) -a
  - **b**) -m
  - c) -t
  - d) -c

Answer: b) -m

- 25. What does the ansible-galaxy command manage?
- a) Roles
  - b) Playbooks
  - c) Modules
  - d) Inventory

Answer: a) Roles

•

- 26. What is the main feature of Ansible's agentless design?
- a) Faster execution
  - b) No dependency on agents installed on nodes
  - c) Improved security
  - d) Built-in databases

Answer: b) No dependency on agents installed on nodes

•

### • 27. What is an Ansible module?

- a) A type of inventory
  - b) A reusable script for a specific task
  - c) A playbook file
  - d) A type of role

Answer: b) A reusable script for a specific task

•

- 28. Which directive is used in playbooks to execute tasks with elevated privileges?
- a) elevate: yes
  - b) privilege: true
  - c) become: yes
  - d) sudo: enable

**Answer:** c) become: yes

•

# • 29. What is the key advantage of Ansible roles?

- a) High performance
  - b) Simplified task organization and reuse
  - c) Automatic error resolution
  - d) Agent-based architecture

Answer: b) Simplified task organization and reuse

•

# • 30. What is the significance of vars in a playbook?

- a) Defines inventory files
  - b) Stores reusable values for tasks
  - c) Connects to remote hosts
  - d) Specifies playbook execution order

**Answer:** b) Stores reusable values for tasks

# 1. What is Docker?

- A) A virtual machine
- B) A cloud storage service
- C) An open-source containerization platform

• D) A programming language

Answer: C) An open-source containerization platform

# 2. What is a key benefit of Docker containers?

- A) They are heavyweight like virtual machines
- B) They depend on specific OS versions
- C) They provide application portability across environments
- D) They do not support scalability

Answer: C) They provide application portability across environments

# 3. What does the Docker daemon (dockerd) do?

- A) Acts as the Docker CLI
- B) Manages containers and images in the background
- C) Hosts the Docker registry
- D) Builds applications from scratch

Answer: B) Manages containers and images in the background

# 4. What is the purpose of a Dockerfile?

- A) To configure Docker networks
- B) To manage Docker images
- C) To define instructions for building a Docker image
- D) To monitor container performance

Answer: C) To define instructions for building a Docker image

#### 5. What is Docker Hub?

- A) A command-line tool for managing containers
- B) A cloud-based registry for Docker images
- C) A component of the Docker daemon
- D) A tool for creating Dockerfiles

**Answer:** B) A cloud-based registry for Docker images

#### 6. Which Docker network driver is the default?

- A) Host
- B) Bridge

- C) Overlay
- D) Macvlan

Answer: B) Bridge

#### 7. Which command lists all Docker networks?

- A) docker network create
- B) docker network inspect
- C) docker network ls
- ullet D) docker network rm

Answer: C) docker network ls

# 8. What is a Docker image?

- A) A running instance of a container
- B) A read-only template for creating containers
- C) A network configuration file
- D) A persistent storage unit

**Answer:** B) A read-only template for creating containers

# 9. What does the docker-compose.yml file do?

- A) Provides persistent storage for containers
- B) Defines multi-container applications
- C) Manages Docker registries
- D) Lists available networks

**Answer:** B) Defines multi-container applications

# 10. What is the main feature of the Docker Host network driver?

- A) Low latency by sharing the host's network stack
- B) Complete isolation from external systems
- C) Compatibility with multiple hosts
- D) Provides persistent storage

**Answer:** A) Low latency by sharing the host's network stack

# 11. Which command builds a Docker image?

• A) docker pull

- $\bullet$  B) docker push
- $\bullet$  C) docker build
- D) docker run

Answer: C) docker build

# 12. What is the command to push a Docker image to Docker Hub?

- A) docker pull
- $\bullet$  B) docker push
- C) docker build
- D) docker login

Answer: B) docker push

# 13. Which component stores Docker images?

- A) Docker CLI
- B) Docker Daemon
- C) Docker Registry
- D) Docker Volume

Answer: C) Docker Registry

# 14. Which is NOT a type of Docker network driver?

- A) Host
- B) Overlay
- C) Standalone
- D) None

Answer: C) Standalone

# 15. Which Docker command stops a running container?

- A) docker stop
- B) docker rm
- C) docker exec
- D) docker pause

Answer: A) docker stop

# 16. What is the use of Docker Volumes?

- A) To manage container memory
- B) To provide persistent storage for containers
- C) To scale container instances
- D) To bridge network connections

**Answer:** B) To provide persistent storage for containers

#### 17. What is a Docker container?

- A) A Docker image template
- B) A running instance of a Docker image
- C) A storage unit for Docker images
- D) A networking driver

**Answer:** B) A running instance of a Docker image

# 18. Which command is used to inspect a Docker network?

- A) docker network create
- $\bullet$  B) docker network ls
- C) docker network inspect
- D) docker network disconnect

Answer: C) docker network inspect

# 19. What is a key feature of the Macvlan network driver?

- A) Isolates containers from external systems
- B) Allows containers to appear as physical devices
- C) Provides persistent storage
- D) Enables communication across multiple hosts

**Answer:** B) Allows containers to appear as physical devices

# 20. How do you log in to Docker Hub using the CLI?

- A) docker login <username>
- $\bullet$  B) docker login
- C) docker connect
- D) docker init

Answer: B) docker login

#### 21. What does docker run do?

- A) Builds a Docker image
- B) Starts a new container from an image
- C) Pushes an image to Docker Hub
- D) Removes a Docker container

**Answer:** B) Starts a new container from an image

# 22. What does the overlay network driver enable?

- A) Low-latency communication
- B) Multi-host networking
- C) Disabling all container networking
- D) Sharing the host's IP

Answer: B) Multi-host networking

# 23. How do you delete a Docker network?

- A) docker network ls
- B) docker network delete
- C) docker network rm
- D) docker network drop

Answer: C) docker network rm

# 24. Which component is the CLI interface for Docker?

- A) Docker Client
- B) Docker Registry
- C) Docker Daemon
- D) Docker Container

**Answer:** A) Docker Client

# 25. Which network type disables all container networking?

- A) None
- B) Host
- C) Bridge
- D) Overlay

Answer: A) None

# 26. What does the docker network connect command do?

- A) Creates a new network
- B) Removes a network
- C) Connects a container to a network
- D) Inspects a network

**Answer:** C) Connects a container to a network

# 27. What is required to sign up for AWS?

- A) A credit or debit card for billing verification
- B) A registered GitHub account
- C) A valid Docker ID
- D) Administrator permissions

**Answer:** A) A credit or debit card for billing verification

# 28. What does the docker-compose up --build command do?

- A) Lists all networks
- B) Runs and builds services in the Docker Compose file
- C) Stops a running container
- D) Pulls an image from Docker Hub

**Answer:** B) Runs and builds services in the Docker Compose file

# 29. What is the primary purpose of Docker Hub's webhooks?

- A) To manage containers
- B) To trigger actions after an image push
- C) To build images from Dockerfiles
- D) To store Docker volumes

**Answer:** B) To trigger actions after an image push

# 30. Which command creates a new Docker network?

- A) docker network init
- B) docker network create
- C) docker network config
- D) docker network add

Answer: B) docker network create