⬚ EASY (10 Questions)

Q1. Git is a:

A. Cloud platform
B. Continuous integration tool
C. Distributed Version Control System
D. Container orchestration tool

Q2. Infrastructure as Code (IaC) enables:

A. Manual server configuration
B. Automated and consistent infrastructure provisioning
C. Monitoring system logs
D. Container networking

Q3. Docker primarily provides:

A. Full virtual machines
B. OS-level containerization
C. CI/CD pipeline automation
D. Network monitoring

Q4. Kubernetes is used for:

A. Version control
B. Container orchestration and scaling
C. Monitoring S3 buckets
D. Running Ansible playbooks

Q5. Ansible playbooks are written in:

A. JSON
B. YAML
C. Bash
D. Python only

Q6. Microservices architecture is characterized by:

A. Monolithic deployment
B. Independent deployable services
C. Single database only
D. Fixed server configuration

Q7. Docker Swarm is:

A. A Terraform module
B. A Docker-native orchestration tool
C. A YAML parser
D. Ansible inventory manager

Q8. Ansible inventory defines:

A. Container images
B. Hosts and groups for automation
C. Terraform modules
D. CI/CD pipeline steps

Q9. A key advantage of IaC is:

A. Manual server patching
B. Infrastructure versioning and reproducibility
C. Container networking only
D. Monitoring system logs

Q10. Kubernetes pods are:

A. Single or multiple containers deployed together
B. Physical servers
C. IaC modules
D. Ansible playbooks

☐ MEDIUM (15 Questions)

Q11. Which Git command is used to fetch updates from a remote repository?

A. git push
B. git merge
C. git fetch
D. git init

Q12. In Docker, a Dockerfile is used to:

A. Launch virtual machines
B. Define container image build instructions
C. Create Kubernetes services
D. Configure Ansible roles

Q13. Kubernetes Deployment objects are used to:

A. Deploy and manage container replicas
B. Version control code
C. Run Ansible tasks
D. Provision Terraform modules

Q14. In Ansible, `hosts: all` in a playbook means:

A. Execute tasks on all hosts defined in inventory
B. Execute tasks on localhost only
C. Ignore inventory
D. Execute tasks on master node only

Q15. Docker Compose is used for:

A. Running single containers
B. Defining and running multi-container applications
C. Kubernetes cluster management
D. Ansible configuration

Q16. Scenario: You want multiple EC2 instances provisioned consistently. Which IaC tool is suitable?

A. Docker
B. Terraform
C. Git
D. Kubernetes

Q17. Ansible roles are used for:

A. CI/CD pipelines
B. Organizing reusable automation tasks and playbooks
C. Container orchestration
D. Deploying EC2 only

Q18. Kubernetes Service object is used to:

A. Run pods
B. Expose pods to other pods or external clients
C. Define Terraform modules
D. Launch Docker containers

Q19. Docker container volumes provide:

A. Networking only
B. Persistent storage for containers
C. IAM access
D. CI/CD automation

Q20. Scenario: You need to configure multiple hosts in Ansible. Which file defines host groups?

A. Playbook
B. Inventory file
C. Dockerfile
D. Kubernetes deployment

Q21. Git `commit` is used to:

A. Push code to remote
B. Save changes to local repository
C. Fetch remote changes
D. Delete repository

Q22. Kubernetes Horizontal Pod Autoscaler helps in:

A. Scaling nodes manually
B. Automatically scaling pods based on metrics
C. Launching containers manually
D. Building Docker images

Q23. Docker images are:

A. Immutable and portable container templates
B. Running containers only
C. YAML files
D. Ansible roles

Q24. Ansible `tasks` section in a playbook contains:

A. Host definitions
B. Steps to be executed on target hosts
C. Terraform modules
D. Docker network configurations

Q25. Scenario: You need isolated container networks in Docker Swarm. Which feature is used?

A. Overlay networks
B. IAM roles
C. Kubernetes ConfigMap
D. Ansible facts

◍ HARD (15 Questions)

Q26. Scenario: You want to deploy 3 replicas of a microservice in Kubernetes. Which object should you define?

A. Pod
B. Deployment
C. Service
D. ConfigMap

Q27. Ansible variable files are used to:

A. Store hostnames only
B. Store reusable configuration parameters for playbooks
C. Launch Docker containers
D. Provision Terraform modules

Q28. Scenario: Multiple Terraform developers work on the same environment. What ensures consistent state?

A. Local state file only
B. Remote backend (S3, Terraform Cloud)
C. Docker volumes
D. Ansible inventory

Q29. Kubernetes ConfigMaps are used for:

A. Storing container images
B. Managing configuration separately from code
C. CI/CD pipelines
D. Scaling pods

Q30. Docker `docker run -d` option:

A. Runs container in detached mode
B. Builds image
C. Deletes container
D. Exposes network

Q31. Ansible `include_role` or `import_role` is used to:

A. Launch EC2 instances
B. Reuse existing roles in playbooks
C. Build Docker images
D. Provision Kubernetes modules

Q32. Scenario: You want a CI/CD pipeline to build and deploy Docker containers automatically. Which combination is correct?

A. Git + Docker + Jenkins
B. Ansible only
C. Kubernetes only
D. Terraform only

Q33. Kubernetes namespaces are used to:

A. Isolate resources and manage multi-tenant clusters
B. Deploy single container
C. Store Terraform state
D. Monitor Ansible execution

Q34. Docker Swarm manager nodes are responsible for:

A. Running containers only
B. Scheduling tasks and maintaining cluster state
C. Container storage
D. Ansible roles

Q35. Scenario: Ansible task fails and you want to continue execution for other tasks. Which keyword is used?

A. ignore_errors: yes
B. continue: true
C. fail: no
D. stop: false

Q36. Docker `ENTRYPOINT` is used to:

A. Define default command for container
B. Delete images
C. Build networks
D. Run Ansible playbooks

Q37. Scenario: You need to maintain multiple host environment configurations in Ansible. Best practice:

A. Separate inventory files per environment
B. Single playbook only
C. Docker volumes
D. Kubernetes ConfigMaps

Q38. Ansible facts are:

A. Automatically gathered system variables for hosts
B. Static configuration files
C. Docker images
D. Terraform modules

Q39. Scenario: You want a rolling update of Kubernetes pods with zero downtime. Which strategy is recommended?

A. Recreate
B. RollingUpdate
C. BlueGreen in Docker
D. Terraform apply

Q40. Kubernetes Secrets are used to:

A. Store sensitive information such as passwords and API keys
B. Deploy pods
C. Run containers
D. Define Ansible roles