Started on	Tuesday, 18 November 2025, 12:04 PM
State	Finished
Completed on	Tuesday, 18 November 2025, 12:13 PM
Time taken	8 mins 47 secs
Marks	8.00/10.00
Grade	**80.00** out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

A developer claims: "I updated my Docker container and pushed it to Docker Hub." What is the most correct clarification?

- a. You cannot push images to Docker Hub at all
- b. Containers and images are the same; pushing a running container is valid
- c. Docker Hub only stores volumes, not images
- d. You must commit the running container to an image, then push that image

Question 2

Complete

Mark 1.00 out of 1.00

A DevOps team is using Terraform to manage AWS infrastructure. Multiple engineers are running terraform apply from their laptops against the same environment. Sometimes their changes overwrite each other. What is the most appropriate fix?

- a. Disable state locking for more freedom
- b. Move the state to a remote backend with state locking (e.g., S3 + DynamoDB lock)
- c. Make everyone run terraform plan twice before apply
- d. Ask team members to manually edit the .tfstate file before each apply

Question 3

Complete

Mark 1.00 out of 1.00

A team migrates from SVN to Git. They are confused that each developer has the "full history" locally. What is the key conceptual difference between Git and SVN?

- a. SVN is distributed and Git is centralized
- b. Both are centralized; the difference is only in commands
- c. Git is distributed; each clone is a full repository with complete history
- d. Git does not support branching while SVN does

Question 4

Complete

Mark 1.00 out of 1.00

You are choosing between Kubernetes and AWS ECS for a new microservices platform. The team wants portability across multiple clouds (AWS today, maybe GCP or Azure later). Which statement is most accurate?

a. ECS is part of the Kubernetes project
b. ECS is cloud-agnostic and runs natively on all major cloud providers
c. Kubernetes only runs on Google Cloud
d. Kubernetes is a standardized, cloud-agnostic orchestrator; GKE/AKS/EKS are its managed offerings

Question 5

Complete

Mark 1.00 out of 1.00

You are running an application on AWS EC2 inside a private subnet. The app needs to read objects from an S3 bucket. According to best practices and the shared responsibility model, how should you grant access?

a. Use OS-level users and groups instead of IAM to control S3 access
b. Attach an IAM role to the EC2 instance with a policy allowing access to that S3 bucket
c. Make the S3 bucket public-read so the instance can access it without credentials
d. Store AWS access keys in a config file on the EC2 instance

Question 6

Complete

Mark 1.00 out of 1.00

You have automation scripts that install packages with yum on CentOS 7. Your organization is migrating those workloads to modern RHEL-based systems. Which is the most accurate statement?

a. All RHEL-based systems now use only apt, so scripts must be fully rewritten
b. Ubuntu also supports yum by default
c. Modern RHEL and CentOS Stream use dnf, but yum is often a compatible wrapper
d. Amazon Linux doesn't support yum at all

Question 7

Complete

Mark 1.00 out of 1.00

You need to parse a large log file on a Linux server, extract lines matching a regex, and generate a summary report. You want rich text-processing capabilities and already have the tool installed on most Unix-like systems. Which language is most appropriate?

- a. Perl
- b. C++
- c. Java
- d. PowerShell

Question 8

Not answered

Marked out of 1.00

You need to quickly configure 10 Ubuntu servers in a lab environment with no central config server. You want minimal setup and no agents on the nodes. Which tool is the best fit?

- a. Ansible from a control node over SSH
- b. Chef with fully installed agents and run lists
- c. Chef with Chef Server
- d. Puppet with Puppet Master

Question 9

Complete

Mark 0.00 out of 1.00

You want to preview changes to an existing AWS stack before applying them. Which pair correctly matches the tool and its “preview changes” feature?

- a. Terraform → Drift Detection
- b. CloudFormation → terraform plan
- c. Terraform → StackSets
- d. CloudFormation → Change Sets

Question 10

Complete

Mark 1.00 out of 1.00

Your DevOps team uses Git for managing IaC (Terraform, Ansible, Kubernetes manifests). They want to improve safety and traceability. Which practice is the best?

a. Commit directly to the main branch to move faster; skip PRs
b. Force-push to main regularly to keep history clean
c. Disable commit messages to avoid cluttering history
d. Use feature branches, open Pull Requests, and require code reviews before merging into main