Started on	Monday, 17 November 2025, 11:48 AM
State	Finished
Completed on	Monday, 17 November 2025, 12:00 PM
Time taken	11 mins 29 secs
Marks	18.00/22.00
Grade	**81.82** out of 100.00

Question 1
Complete
Mark 0.00 out of 1.00

A key characteristic of idempotent automation (e.g., Ansible tasks) is:

- ○ a.   It can only be run on Linux
- ○ b.   Running it multiple times leads to the same final state
- ◉ c.   Running it multiple times leads to different results each time
- ○ d.   It executes only once

Question 2
Complete
Mark 1.00 out of 1.00

Amazon Linux is best described as:

- ○ a.   A Windows-based OS for EC2
- ◉ b.   A lightweight Linux distribution optimized for AWS environments
- ○ c.   A desktop Linux distribution for end users
- ○ d.   A real-time OS

Question 3
Complete
Mark 1.00 out of 1.00

AWS CloudFormation templates are usually written in:

- ○ a.   HCL
- ○ b.   Bash
- ○ c.   CSV
- ◉ d.   JSON or YAML

Question 4

Complete

Mark 1.00 out of 1.00

Chef uses which concepts for defining server configurations?

○ a.   Charts and Releases

○ b.   Manifests and Catalogs

◉ c.   Cookbooks and Recipes

○ d.   Playbooks and Roles

Question 5

Complete

Mark 1.00 out of 1.00

Compared to manually configuring servers, using IaC (Terraform, CloudFormation, etc.) mainly improves:

○ a.   GUI usability

○ b.   CPU speed

○ c.   Hardware lifespan

◉ d.   Reproducibility, versioning, and automated provisioning

Question 6

Complete

Mark 0.00 out of 1.00

In a typical Linux shell script, the first line #!/bin/bash is called:

○ a.   Shebang (hashbang)

○ b.   Prompt command

◉ c.   Execution directive

○ d.   Comment line

Question 7

Complete

Mark 1.00 out of 1.00

In Linux, to modify a file's permissions you would use:

○ a.   ping

○ b.   grep

◉ c.   chmod

○ d.   cp

Question 8

Complete

Mark 1.00 out of 1.00

In Puppet, configurations are typically written in:

- ○ a.   HTML
- ⦿ b.   Puppet's declarative manifest language
- ○ c.   Java
- ○ d.   Pure Bash scripts

Question 9

Complete

Mark 1.00 out of 1.00

On a Linux server, you want a script to run every day at 2:00 AM automatically. Which facility would you typically use?

- ○ a.   ps
- ○ b.   ping
- ⦿ c.   cron
- ○ d.   scp

Question 10

Complete

Mark 1.00 out of 1.00

On Ubuntu, which command is primarily used for installing packages?

- ⦿ a.   apt or apt-get
- ○ b.   dnf
- ○ c.   zypper
- ○ d.   yum

Question 11

Complete

Mark 1.00 out of 1.00

Terraform configuration files are typically written in:

- ○ a.   JSON only
- ○ b.   XML
- ⦿ c.   HCL (HashiCorp Configuration Language)
- ○ d.   YAML only

Question 12

Complete

Mark 1.00 out of 1.00

Terraform uses a state file primarily to:

- ○ a.   Replace version control
- ● b.   Track the mapping between real infrastructure resources and configuration
- ○ c.   Store user passwords
- ○ d.   Store Terraform's source code

Question 13

Complete

Mark 1.00 out of 1.00

The Nix shell (within the Nix ecosystem) is primarily used to:

- ○ a.   Format JSON files
- ○ b.   Run Windows-only applications
- ● c.   Create reproducible, isolated development environments
- ○ d.   Replace the Linux kernel

Question 14

Complete

Mark 1.00 out of 1.00

Which configuration management tool is agentless and typically uses SSH to connect to target machines?

- ○ a.   Chef
- ● b.   Ansible
- ○ c.   Puppet
- ○ d.   SaltStack

Question 15

Complete

Mark 0.00 out of 1.00

Which Linux distribution is commercially supported by Red Hat?

- ○ a.   RHEL
- ○ b.   Ubuntu
- ○ c.   CentOS Stream
- ● d.   Debian

Question 16

Complete

Mark 1.00 out of 1.00

Which of the following best describes immutable infrastructure?

- ○ a.   Infrastructure that never fails
- ◉ b.   Servers are replaced with new instances when changes are required, rather than modified in-place
- ○ c.   Servers are updated in-place with patches
- ○ d.   Infrastructure that cannot be created via code

Question 17

Complete

Mark 1.00 out of 1.00

Which of the following tasks is most appropriate for a shell or PowerShell script rather than manual execution?

- ○ a.   Drawing a network diagram
- ○ b.   Writing a Word document
- ◉ c.   Repeatedly deploying and configuring 50 servers with the same steps
- ○ d.   Clicking through a GUI to create one user

Question 18

Complete

Mark 1.00 out of 1.00

Which scripting language is native to Windows and used for automating administrative tasks?

- ○ a.   Nix shell
- ○ b.   Perl
- ○ c.   Bash
- ◉ d.   PowerShell

Question 19

Complete

Mark 1.00 out of 1.00

Which statement best describes Infrastructure as Code (IaC)?

- ○ a.   Writing shell scripts only for local automation
- ○ b.   Delegating all infrastructure tasks to managed services
- ◉ c.   Managing infrastructure configuration in version-controlled, machine-readable files
- ○ d.   Using only GUI tools in the cloud console

Question 20

Complete

Mark 0.00 out of 1.00

Which Terraform command shows the changes that will be made without actually applying them?

- ○ a.   terraform apply
- ○ b.   terraform destroy
- ○ c.   terraform plan
- ◉ d.   terraform init

Question 21

Complete

Mark 1.00 out of 1.00

Which tool is best suited for text processing and one-liners on Unix systems (e.g., parsing logs, manipulating strings)?

- ◉ a.   Perl
- ○ b.   Excel
- ○ c.   PowerPoint
- ○ d.   Photoshop

Question 22

Complete

Mark 1.00 out of 1.00

Which tool is cloud-agnostic and commonly used to provision infrastructure across AWS, GCP, and Azure?

- ○ a.   AWS CloudFormation
- ○ b.   Google Deployment Manager
- ○ c.   Azure Resource Manager Templates
- ◉ d.   Terraform