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HashiCorp Terraform-Associate-004 Exam Syllabus Topics:

Topic	Details
Topic 1	Terraform modules: This domain explains organizing and reusing code through modules, understanding variable scope between modules, implementing modules in configurations, and managing module versions.
Topic 2	Infrastructure as Code (IaC) with Terraform: This domain covers the foundational concept of Infrastructure as Code and how Terraform enables managing resources across multiple cloud providers and services through a unified workflow.

Topic 3	Core Terraform workflow: This domain focuses on the essential workflow steps: initializing directories, validating configurations, generating execution plans, applying changes, destroying infrastructure, and formatting code.
Topic 4	HCP Terraform: This domain covers using HashiCorp Cloud Platform Terraform for infrastructure provisioning, collaboration and governance features, organizing workspaces and projects, and configuring integrations.
Topic 5	Terraform fundamentals: This domain addresses installing and managing provider plugins, understanding Terraform's provider architecture, and how Terraform tracks infrastructure state.

HashiCorp Certified: Terraform Associate (004) (HCTA0-004) Sample Questions (Q228-Q233):

NEW QUESTION # 228

Which parameters does terraform import require? Choose two correct answers.

- A. Provider
- B. Resource ID
- C. Resource address
- D. Path

Answer: B,C

Explanation:

These are the parameters that terraform import requires, as they allow Terraform to identify the existing resource that you want to import into your state file, and match it with the corresponding configuration block in your files.

NEW QUESTION # 229

In a Terraform Cloud workspace linked to a version control repository speculative plan run start automatically commit changes to version control.

- A. True
- B. False

Answer: A

Explanation:

When you use a remote backend that needs authentication, HashiCorp recommends that you:

NEW QUESTION # 230

A developer launched a VM outside of the Terraform workflow and ended up with two servers with the same name. They are unsure which VM is managed with Terraform, but they do have a list of all active VM IDs.

Which method could you use to determine which instance Terraform manages?

- A. Run terraform state list to find the names of all VMs, then run terraform state show for each of them to find which VM ID Terraform manages.
- B. Run a terraform apply -refresh to identify the virtual machine IDs that are already managed by Terraform.
- C. Run terraform state rm on both VMs, then terraform apply to recreate the correct one.
- D. Modify the Terraform configuration to add an import block for both of the virtual machines.

Answer: A

Explanation:

Rationale for Correct Answer (D):

terraform state list shows all resources currently managed by Terraform. terraform state show <resource> provides detailed attributes, including the VM ID. This lets you match the Terraform-managed instance with the actual infrastructure.

Analysis of Incorrect Options:

A: Importing is not needed since one VM is already in state.

B: terraform apply doesn't show which VM ID is managed, it only refreshes attributes.

C: Removing state entries is destructive and may lead to losing state data unnecessarily.

Key Concept:

The state file is Terraform's source of truth for which resources it manages.

Reference: Terraform Exam Objective - Implement and Maintain State.

NEW QUESTION # 231

When using a remote backend or terraform Cloud integration, where does Terraform save resource state?

- A. In memory
- B. In an environment variable
- C. On the disk
- D. In the remote backend or Terraform Cloud

Answer: D

Explanation:

This is where Terraform saves resource state when using a remote backend or Terraform Cloud integration, as it allows you to store and manage your state file in a remote location, such as a cloud storage service or Terraform Cloud's servers. This enables collaboration, security, and scalability for your Terraform infrastructure.

NEW QUESTION # 232

A resource block is shown in the Exhibit space of this page. How would you reference the name value of the second instance of this resource?

- A. `aws_instance.web[1].name`
- B. `aws_instance.web[2].name`
- C. `element(aws_instance.web, 2)`
- D. `aws_instance.web.*.name`
- E. `aws_instance.web[1]`

Answer: A

Explanation:

* Rationale for Correct answer: When using count, Terraform creates resources indexed starting at 0.

With count = 2, the instances are indexed as:

* First instance # `aws_instance.web[0]`

* Second instance # `aws_instance.web[1]`

To reference the name attribute of the second instance, the correct syntax is:

`aws_instance.web[1].name`

* Analysis of Incorrect Options (Distractors):

* A. `[2]`: Incorrect because indexing starts at 0 and only indices 0 and 1 exist.

* B. `*.name`: Returns a list of all names, not a single instance value.

* D. `[1]`: References the whole resource object, not the name attribute.

* E. `element(...)`: Incorrect syntax and wrong index; also unnecessary when direct indexing is available.

* Key Concept: Understanding resource indexing with count and zero-based indexing in Terraform.

Reference: Terraform Exam Objective - Read, Generate, and Modify Configurations

NEW QUESTION # 233

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