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HashiCorp Terraform-Associate-004 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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 2	<ul style="list-style-type: none">Terraform fundamentals: This domain addresses installing and managing provider plugins, understanding Terraform's provider architecture, and how Terraform tracks infrastructure state.
Topic 3	<ul style="list-style-type: none">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	<ul style="list-style-type: none">Terraform state management: This domain focuses on managing Terraform's state file, understanding local and remote backends, implementing state locking, and handling resource drift.

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HashiCorp Certified: Terraform Associate (004) (HCTA0-004) Sample

Questions (Q215-Q220):

NEW QUESTION # 215

A module block is shown in the Exhibit space of this page. When you use a module block to reference a module from the Terraform Registry such as the one in the example, how do you specify version 1.0.0 of the module?

- A. You cannot. Modules stored on the public Terraform Registry do not support versioning.
- B. Nothing. Modules stored on the public Terraform module Registry always default to version 1.0.0.
- **C. Add a version = "1.0.0" attribute to the module block.**
- D. Append ?ref=v1.0.0 argument to the source path.

Answer: C

Explanation:

Module Versioning: To specify a version in a module block for modules in the Terraform Registry, you add the version attribute, e.g., version = "1.0.0".

Terraform Registry Support: The public registry supports versioning by enabling semantic constraints, allowing users to define specific versions compatible with their infrastructure requirements.

Refer to the module versioning documentation in Terraform's official registry guide.

NEW QUESTION # 216

What is the purpose of the terraform.lock.hcl file in Terraform?

- A. There is no such file.
- B. Storing references to workspaces, which are locked.
- **C. Tracking specific provider dependencies.**
- D. Preventing Terraform runs from occurring.

Answer: C

Explanation:

Rationale for Correct Answer (D):

The terraform.lock.hcl file is automatically created and maintained by Terraform. It records the specific versions and checksums of providers used in a configuration, ensuring consistent runs across environments and machines.

Analysis of Incorrect Options:

A. There is no such file: Incorrect - the lock file exists and is crucial for dependency management.

B. Storing references to workspaces: Incorrect - workspaces are tracked in the state file, not the lock file.

C. Preventing Terraform runs: Incorrect - the lock file does not block runs; it enforces consistent provider versions.

Key Concept:

The terraform.lock.hcl file enforces provider version consistency, which is critical for reproducible and reliable Terraform deployments.

Reference:

Terraform Exam Objective - Read, Generate, and Modify Configurations.

NEW QUESTION # 217

What is a Terraform provider not responsible for?

- A. Managing resources and data sources based on an API.
- **B. Provisioning infrastructure in multiple cloud providers.**
- C. Understanding API interactions with a hosted service.
- D. Managing actions to take based on resource differences.

Answer: B

Explanation:

Rationale for Correct Answer (A):

Providers only interact with one specific platform or API. Terraform itself can work with multiple providers in one configuration, but a single provider is not responsible for provisioning across multiple cloud providers.

Analysis of Incorrect Options:

- B . Managing actions to take based on resource differences: This is a provider responsibility (through the resource schema).
- C . Managing resources and data sources based on an API: Correct - providers define resources/data sources and map them to API calls.
- D . Understanding API interactions with a hosted service: Correct - providers encapsulate API logic to allow Terraform to manage resources.

Key Concept:

Providers are API adapters. They handle CRUD operations for resources in their own ecosystem but do not span across multiple cloud platforms.

Reference:

Terraform Exam Objective - Manage Terraform Resources and Providers.

NEW QUESTION # 218

A provider configuration block is required in every Terraform configuration.

Example:

□

- A. True
- B. False

Answer: B

Explanation:

A provider configuration block is not required in every Terraform configuration. A provider configuration block can be omitted if its contents would otherwise be empty. Terraform assumes an empty default configuration for any provider that is not explicitly configured. However, some providers may require some configuration arguments (such as endpoint URLs or cloud regions) before they can be used. A provider's documentation should list which configuration arguments it expects. For providers distributed on the Terraform Registry, versioned documentation is available on each provider's page, via the "Documentation" link in the provider's header¹. References = [Provider Configuration]¹

NEW QUESTION # 219

What type of block is used to construct a collection of nested configuration blocks?

- A. repeated.
- B. For_each
- C. Dynamic
- D. Nesting

Answer: C

Explanation:

This is the type of block that is used to construct a collection of nested configuration blocks, by using a for_each argument to iterate over a collection value and generate a nested block for each element. For example, you can use a dynamic block to create multiple ingress rules for a security group resource.

NEW QUESTION # 220

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