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The Internet is increasingly becoming a platform for us to work and learn, while many products are unreasonable in web design, and too much information is not properly classified. It's disorganized. Our Terraform-Associate-004 study materials draw lessons from the experience of failure, will all kinds of qualification examination has carried on the classification of clear layout, at the same time the user when they entered the Terraform-Associate-004 Study Materials page in the test module classification of clear, convenient to use a very short time to find what they want to study, which began the next exercise.

HashiCorp Terraform-Associate-004 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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 2	<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 3	<ul style="list-style-type: none">• 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 4	<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 5	<ul style="list-style-type: none">• Terraform configuration: This domain covers writing Terraform code including resources and data blocks, using variables and outputs, handling complex types, creating dynamic configurations with expressions and functions, managing dependencies, implementing validation, and handling sensitive data.

Terraform-Associate-004 Valid Test Registration, Terraform-Associate-004 Valid Test Forum

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HashiCorp Certified: Terraform Associate (004) (HCTA0-004) Sample Questions (Q256-Q261):

NEW QUESTION # 256

Which of the following should you add in the required_providers block to define a provider version constraint?

- A. version = ">= 3.1"
- B. version ~> 3.1
- C. version >= 3.1

Answer: A

Explanation:

Rationale for Correct Answer (C):

Version constraints must be specified with = and quotes, e.g.:

```
version = ">= 3.1"
```

This ensures compatibility with Terraform's syntax.

Analysis of Incorrect Options:

A, B: Incorrect syntax, missing quotes or wrong operator format.

C: Correct Terraform syntax.

Key Concept:

Correct syntax in provider version constraints ensures reproducibility.

Reference:Terraform Exam Objective - Manage Terraform Resources and Providers.

NEW QUESTION # 257

Which of the following is true about terraform apply?(Pick 2 correct responses)

- A. It only operates on infrastructure defined in the current working directory or workspace.
- B. You cannot target specific resources for the operation.
- C. You must pass the output of a terraform plan command to it.
- D. By default, it does not refresh your state file to reflect the current infrastructure configuration.
- E. Depending on provider specification, Terraform may need to destroy and recreate your infrastructure resources.

Answer: A,E

Explanation:

C (Correct)- If changes require aresource replacement(e.g., changing an immutable attribute like instance type), Terraform willdestroy and recreate the resource.

E (Correct)- Terraform only appliesthe configuration in the current directory or workspace.

Incorrect Answers:

A: (Incorrect)- terraform apply can run without explicitly passing a plan.

B: (Incorrect)- terraform applyautomatically refreshes statebefore making changes.

D: (Incorrect)- Terraformcan target specific resourcesusing -target.Official Terraform Documentation Reference:terraform apply - HashiCorp Documentation

NEW QUESTION # 258

Exhibit:

Root module configuration:

```
output "vnet_id" {  
  value = module.my_network.vnet_id  
}
```

Error:

Error: Reference to undeclared output value

on main.tf line 12, in output "vnet_id":

12: value = module.my_network.vnet_id

You are using a networking module in your Terraform configuration with the name `my_network`. Your root module includes the configuration shown. When you run `terraform validate`, you get the error shown. Which option would successfully retrieve this value from your networking module?

- A. Change the referenced value to `module.my_network.outputs.vnet_id`.
- **B. Define the attribute `vnet_id` as an output in the networking module.**
- C. Change the referenced value to `my_network.outputs.vnet_id`.
- D. Define the attribute `vnet_id` as a variable in the networking module.

Answer: B

Explanation:

Rationale for Correct Answer: A parent/root module can only read values from a child module if the child module exports them via an output block. The error indicates `vnet_id` is not an exported output from module.

`my_network`. Defining output `"vnet_id" { value = ... }` inside the networking (child) module makes `module.my_network.vnet_id` valid.

Analysis of Incorrect Options (Distractors):

A: Incorrect-Terraform does not use `module.<name>.outputs.<output>`; module outputs are referenced directly as `module.<name>.<output>`.

B: Incorrect-variables are inputs to a module, not values exported from it.

C: Incorrect-missing the module. prefix and still uses an invalid `.outputs` path.

Key Concept: Module outputs are the contract for exposing child module values to the root/parent.

Reference: Terraform Objectives - Interact with Terraform Modules (module inputs/outputs and composition).

NEW QUESTION # 259

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

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

Answer: D

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 # 260

Exhibit:

```
variable "sizes" {  
  type = list(string)  
  description = "Valid server sizes"  
  default = [ "small", "medium", "large" ]  
}
```

A variable declaration is shown in the exhibit. Which is the correct way to get the value of `medium` from this variable?

- A. `var.sizes[3]`
- B. `var.sizes[2]`
- C. `var.sizes[0]`
- **D. `var.sizes[1]`**

Answer: D

Explanation:

Rationale for Correct answer: Terraform lists are zero-indexed. Given ["small", "medium", "large"], index 0 is small, index 1 is medium, and index 2 is large. Therefore, medium is `var.sizes[1]`.

Analysis of Incorrect Options (Distractors):

A: Index 0 returns small, not medium

C: Index 2 returns large, not medium

D: Index 3 is out of range for a 3-element list.

Key Concept: Accessing list elements with zero-based indexing in Terraform expressions.

Reference: Terraform Objectives - Read, Generate, and Modify Configurations (variables, types, and expressions).

NEW QUESTION # 261

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