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HashiCorp Terraform-Associate-004 Exam Syllabus Topics:

Topic	Details
Topic 1	Terraform fundamentals: This domain addresses installing and managing provider plugins, understanding Terraform's provider architecture, and how Terraform tracks infrastructure state.
Topic 2	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 3	Terraform state management: This domain focuses on managing Terraform's state file, understanding local and remote backends, implementing state locking, and handling resource drift.
Topic 4	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.

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HashiCorp Certified: Terraform Associate (004) (HCTA0-004) Sample Questions (Q47-Q52):

NEW QUESTION # 47

If one of your modules uses a local value, you can expose that value to callers of the module by defining a Terraform output in the module's configuration.

- A. False
- **B. True**

Answer: B

Explanation:

Rationale for Correct Answer (True):

Local values (locals { }) are scoped to a module and are not directly visible outside. To make them available to callers, you must define outputs in the module. Outputs act as the interface for exposing values from a child module to the root module.

Analysis of Incorrect Option:

False: Incorrect, because locals cannot be exposed directly; only via outputs.

Key Concept:

Outputs are the way to expose information outside of a module.

Reference:

Terraform Exam Objective - Interact with Terraform Modules.

NEW QUESTION # 48

Exhibit:

```
data "vsphere_datacenter" "dc" {}
resource "vsphere_folder" "parent" {
  path = "Production"
  type = "vm"
  datacenter_id = _____
}
```

You want to pass the id of the vsphere_datacenter data source to the datacenter_id argument of the vsphere_folder resource. Which reference would you use?

- **A. data.vsphere_datacenter.de.id**
- B. data.vsphere_datacenter.dc
- C. data.de.id
- D. vsphere_datacenter.dc.id

Answer: A

Explanation:

Rationale for Correct answer: Data sources are referenced with: data.<TYPE>.<NAME>.<ATTRIBUTE>. For a vSphere datacenter data source, the correct reference to its id is: data.vsphere_datacenter.<name>.id. □ Given the options, only A follows the correct data-source addressing pattern and includes the .id attribute.

Analysis of Incorrect Options (Distractors):

B: Incorrect-missing the data. prefix, so it looks like a managed resource reference.

C: Incorrect-missing the attribute (.id).

D: Incorrect-missing the data source type and name.

Key Concept: Correct HCL reference syntax for data sources.

Reference:

NEW QUESTION # 49

You are creating a Terraform configuration which needs to make use of multiple providers, one for AWS and one for Datadog. Which of the following provider blocks would allow you to do this?

- A.

```
terraform {  
  provider "aws" {  
    profile = var.aws_profile  
    region = var.aws_region  
  }  
  
  provider "datadog" {  
    api_key = var.datadog_api_key  
    app_key = var.datadog_app_key  
  }  
}
```

- B.

```
provider {  
  "aws" {  
    profile = var.aws_profile  
    region = var.aws_region  
  }  
  
  "datadog" {  
    api_key = var.datadog_api_key  
    app_key = var.datadog_app_key  
  }  
}
```

- C.

```
provider "aws" {  
  profile = var.aws_profile  
  region = var.aws_region  
}  
  
provider "datadog" {  
  api_key = var.datadog_api_key  
  app_key = var.datadog_app_key  
}
```

- D.

```
provider "aws" {  
  profile = var.aws_profile  
  region = var.aws_region  
}  
  
provider "datadog" {  
  api_key = var.datadog_api_key  
  app_key = var.datadog_app_key  
}
```

Answer: C

Explanation:

Option C is the correct way to configure multiple providers in a Terraform configuration. Each provider block must have a name attribute that specifies which provider it configures². The other options are either missing the name attribute or using an invalid syntax.

NEW QUESTION # 50

What is the purpose of state locking in a remote backend?

- A. Requires every instance of Terraform to use the same provider version.
- B. Creates a backup of the state file in a secure location.
- C. Encrypts the state in the remote backend.
- D. Ensures only one instance of Terraform can modify the state at a time.

Answer: D

Explanation:

Detailed Explanation:

Rationale for Correct Answer: State locking prevents concurrent operations from modifying the same state simultaneously. This avoids race conditions and state corruption when multiple operators or automation pipelines run Terraform against the same remote state.

Analysis of Incorrect Options (Distractors):

A: Incorrect. Encryption may be provided by the backend or platform, but it is not the purpose of locking.

B: Incorrect. Provider version consistency is managed through version constraints and dependency lock files (.terraform.lock.hcl), not state locking.

C: Incorrect. Backups/snapshots may exist depending on the backend, but that's separate from the locking mechanism.

Key Concept: Remote state locking to prevent simultaneous writes and protect state integrity.

Reference: Implement and Maintain State - remote state and locking to prevent concurrent state modification.

NEW QUESTION # 51

How is terraform import run?

- A. As a part of terraform refresh
- B. As a part of terraform plan
- C. All of the above
- D. By an explicit call
- E. As a part of terraform init

Answer: D

Explanation:

The terraform import command is not part of any other Terraform workflow. It must be explicitly invoked by the user with the appropriate arguments, such as the resource address and the ID of the existing infrastructure to import. Reference = [Importing Infrastructure]

NEW QUESTION # 52

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