

# HashiCorp Terraform-Associate-004 Reliable Study Plan | Exam Terraform-Associate-004 Details



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## HashiCorp Terraform-Associate-004 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Maintain infrastructure with Terraform: This domain addresses importing existing infrastructure into Terraform, inspecting state using CLI commands, and using verbose logging for troubleshooting.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• Terraform fundamentals: This domain addresses installing and managing provider plugins, understanding Terraform's provider architecture, and how Terraform tracks infrastructure state.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 5	<ul style="list-style-type: none"><li>• Terraform state management: This domain focuses on managing Terraform's state file, understanding local and remote backends, implementing state locking, and handling resource drift.</li></ul>
Topic 6	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 7	<ul style="list-style-type: none"><li>• HCP Terraform: This domain covers using HashiCorp Cloud Platform Terraform for infrastructure provisioning, collaboration and governance features, organizing workspaces and projects, and configuring integrations.</li></ul>

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### HashiCorp Certified: Terraform Associate (004) (HCTA0-004) Sample Questions (Q254-Q259):

#### NEW QUESTION # 254

A child module can always access variables declared in its parent module.

- A. False
- B. True

**Answer: A**

Explanation:

Child modules do not automatically inherit variables from the parent module.

To pass values from the parent module to the child module, you must explicitly define input variables in the child module and pass them in the parent module.

Example:

```
hcl
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module "example" {
  source = "../child_module"
  var1 = "value"
}
```

Official Terraform Documentation Reference:

Passing Variables to Modules

#### NEW QUESTION # 255

You have used Terraform to create an ephemeral development environment in the cloud and are now ready to destroy all the Infrastructure described by your Terraform configuration. To be safe, you would like to first see all the infrastructure that Terraform will delete.

Which command should you use to show all of the resources that will be deleted? Choose two correct answers.

- A. Run `terraform state rm`
- B. Run `terraform destroy` and it will first output all the resource that will be deleted before prompting for approval
- C. Run `terraform plan -destroy`
- D. Run `terraform show -destroy`

**Answer: B,C**

Explanation:

To see all the resources that Terraform will delete, you can use either of these two commands:

`terraform destroy` will show the plan of destruction and ask for your confirmation before proceeding. You can cancel the command if you do not want to destroy the resources.

`terraform plan -destroy` will show the plan of destruction without asking for confirmation. You can use this command to review the changes before running `terraform destroy`. Reference = : Destroy Infrastructure : Plan Command: Options

### NEW QUESTION # 256

Your risk management organization requires that new AWS S3 buckets must be private and encrypted at rest. How can Terraform Cloud automatically and proactively enforce this security control?

- A. Auditing cloud storage buckets with a vulnerability scanning tool
- B. By adding variables to each Terraform Cloud workspace to ensure these settings are always enabled
- C. With a Sentinel policy, which runs before every apply
- D. With an S3 module with proper settings for buckets

**Answer: C**

Explanation:

The best way to automatically and proactively enforce the security control that new AWS S3 buckets must be private and encrypted at rest is with a Sentinel policy, which runs before every apply. Sentinel is a policy as code framework that allows you to define and enforce logic-based policies for your infrastructure. Terraform Cloud supports Sentinel policies for all paid tiers, and can run them before any terraform plan or terraform apply operation. You can write a Sentinel policy that checks the configuration of the S3 buckets and ensures that they have the proper settings for privacy and encryption, and then assign the policy to your Terraform Cloud organization or workspace. This way, Terraform Cloud will prevent any changes that violate the policy from being applied. References = [Sentinel Policy Framework], [Manage Policies in Terraform Cloud], [Write and Test Sentinel Policies for Terraform]

### NEW QUESTION # 257

What task does the terraform import command perform?

- A. Imports all infrastructure from the configured cloud provider.
- B. Imports a new Terraform module into Terraform's state file.
- C. Imports provider configuration from one state file to another.
- D. Imports resources from one Terraform state file to another.
- E. Imports existing resources into Terraform's state file.

**Answer: E**

Explanation:

Rationale for Correct Answer (B):

terraform import allows Terraform to associate existing resources (created outside of Terraform or by another tool) with a Terraform configuration by writing them into the state file. After import, Terraform can manage those resources.

Analysis of Incorrect Options:

A). From one state file to another: Incorrect, import does not transfer between state files.

C). Importing a module: Incorrect, modules are defined in configuration, not imported.

D). Import all infrastructure: Incorrect, import is per-resource, not bulk.

E). Provider configuration transfer: Incorrect, provider configs are in .tf files, not imported with this command.

Key Concept:

The terraform import command bridges existing resources with Terraform state management.

Reference:Terraform Exam Objective - Implement and Maintain State.

### NEW QUESTION # 258

How could you reference an attribute from the vsphere\_datacenter data source for use with the datacenter\_id argument within the vsphere\_folder resource in the following configuration?

- A. Data.vsphere\_datacenter.DC.id
- B. Vsphere\_datacenter.dc.id
- C. Data,dc,id
- D. Data.vsphere\_datacenter,dc

**Answer: A**

Explanation:

The correct way to reference an attribute from the vsphere\_datacenter data source for use with the datacenter\_id argument within the vsphere\_folder resource in the following configuration is data.

vsphere\_datacenter.dc.id. This follows the syntax for accessing data source attributes, which is data.TYPE.



