



HashiCorp

Exam Questions Terraform-Associate-004

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

NEW QUESTION 1

You can reference a resource created with for_each using a Splat (*) expression.

- A. True
- B. False

Answer: B

NEW QUESTION 2

As a member of an operations team that uses infrastructure as code (IaC) practices, you are tasked with making a change to an infrastructure stack running in a public cloud. Which pattern would follow IaC best practices for making a change?

- A. Make the change via the public cloud API endpoint
- B. Clone the repository containing your infrastructure code and then run the code
- C. Use the public cloud console to make the change after a database record has been approved
- D. Make the change programmatically via the public cloud CLI
- E. Submit a pull request and wait for an approved merge of the proposed changes

Answer: E

NEW QUESTION 3

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

Answer: B

NEW QUESTION 4

Which of these commands makes your code more human readable?

- A. Terraform validate
- B. Terraform output
- C. Terraform show
- D. Terraform file

Answer: D

NEW QUESTION 5

Which of the following is not a benefit of adopting infrastructure as code?

- A. Versioning
- B. A Graphical User Interface
- C. Reusability of code
- D. Automation

Answer: B

NEW QUESTION 6

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. Preventing Terraform runs from occurring.
- D. Tracking specific provider dependencies.

Answer: D

NEW QUESTION 7

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

NEW QUESTION 8

You can develop a custom provider to manage its resources using Terraform.

- A. True
- B. False

Answer: A

NEW QUESTION 9

What does state locking accomplish?

- A. Prevent accidental Prevent accident deletion of the state file
- B. Blocks Terraform commands from modifying, the state file
- C. Copies the state file from memory to disk
- D. Encrypts any credentials stored within the state file

Answer: B

NEW QUESTION 10

All standard backend types support state locking, and remote operations like plan, apply, and destroy.

- A. True
- B. False

Answer: B

NEW QUESTION 10

Which task does terraform init not perform?

- A. Validates all required variables are present
- B. Sources any modules and copies the configuration locally
- C. Connects to the backend
- D. Sources all providers used in the configuration and downloads them

Answer: A

NEW QUESTION 11

Which of the following methods, used to provision resources into a public cloud, demonstrates the concept of infrastructure as code?

- A. curl commands manually run from a terminal
- B. A sequence of REST requests you pass to a public cloud API endpoint Most Voted
- C. A script that contains a series of public cloud CLI commands
- D. A series of commands you enter into a public cloud console

Answer: C

NEW QUESTION 14

How does the use of Infrastructure as Code (IaC) enhance the reliability of your infrastructure?
Pick the two correct responses below.

- A. Proposed changes can be reviewed before being applied.
- B. Infrastructure is automatically scaled to meet demand.
- C. Incorrect configurations cannot be deployed.
- D. Updates are deployed with zero downtime.
- E. Configuration drift is reduced with declarative definitions.

Answer: AE

NEW QUESTION 16

Which of these statements about Terraform Cloud workspaces is false?

- A. They have role-based access controls
- B. You must use the CLI to switch between workspaces
- C. Plans and applies can be triggered via version control system integrations
- D. They can securely store cloud credentials

Answer: B

NEW QUESTION 18

Running terraform fmt without any flags in a directory with Terraform configuration files check the formatting of those files without changing their contents.

- A. True
- B. False

Answer: B

NEW QUESTION 23

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

- A. `version`
- B. `version = "3.1"`
- C. `version: 3.1`
- D. `version - 3.1`

Answer: B

NEW QUESTION 24

Exhibit:

```
module "web_stack" {  
  source = "../modules/web_stack"  
}
```

Your configuration defines the module block shown in the exhibit. The `web_stack` module accepts an input variable named `servers`. Which of the following changes to the module block sets the `servers` variable to the value of 3?

- A. `module "web_stack" {source = "../modules/web_stack" var.servers = 3}`
- B. `module "web_stack" {source = "../modules/web_stack" inputs = { servers = 3 }}`
- C. `module "web_stack" {source = "../modules/web_stack" servers = 3}`
- D. `module "web_stack" {source = "../modules/web_stack" inputs.servers = 3}`

Answer: C

NEW QUESTION 28

Which of the following is not a valid source path for specifying a module?

- A. `source - "github.com/hashicorp/examplePref-ul.0.8M"`
- B. `source = "../module?version=vl.6.0"`
- C. `source - "hashicorp/consul/aws"`
- D. `source - "../module"`

Answer: B

NEW QUESTION 33

Why does this backend configuration not follow best practices?

```
terraform {  
  backend "s3" {  
    bucket      = "terraform-state-prod"  
    key         = "network/terraform.tfstate"  
    region      = "us-east-1"  
    access_key  = "AKIAIOSFODNN7EXAMPLE"  
    secret_key  = "wJalrXUtnFEMI/K7MDENG/bPxrF1CYEXAMPLEKEY"  
  }  
  
  required_providers {  
    aws = {  
      source = "hashicorp/aws"  
      version = "~> 3.38"  
    }  
  }  
  
  required_version = ">= 0.15"  
}
```

- A. An alias meta-argument should be included in backend blocks whenever possible
- B. You should use the local enhanced storage backend whenever possible
- C. You should not store credentials in Terraform configuration
- D. The backend configuration should contain multiple credentials so that more than one user can execute `terraform plan` and `terraform apply`

Answer: C

NEW QUESTION 35

Which of these are features of HCP Terraform/Terraform Cloud? Pick the 2 correct responses below.

- A. Automated infrastructure deployment visualization.
- B. A web-based user interface (UI).
- C. Automatic backups of configuration and state.
- D. Remote state storage.

Answer: AD

NEW QUESTION 40

You want to know from which paths Terraform is loading providers referenced in your Terraform configuration (*.files). You need to enable additional logging messages to find this out. Which of the following would achieve this?

- A. Set verbose for each provider in your Terraform configuration
- B. Set the environment variable TF_LOG_TRACE
- C. Set the environment variable TF_LOG_PATH
- D. Set the environment variable TF_log_TRACE

Answer: B

NEW QUESTION 44

When should you use the force-unlock command?

- A. You have a high priority change
- B. Automatic unlocking failed
- C. apply failed due to a state lock
- D. You see a status message that you cannot acquire the lock

Answer: B

NEW QUESTION 47

What is the provider for the resource shown in the Exhibit?

```
resource "aws_vpc" "main" { name = "test"
}
```

- A. VPC
- B. test
- C. main
- D. aws

Answer: D

NEW QUESTION 48

What is the Terraform style convention for indenting a nesting level compared to the one above it?

- A. With two spaces.
- B. With four spaces.
- C. With three spaces.
- D. With a tab.

Answer: A

NEW QUESTION 51

Any user can publish modules to the public Terraform Module Registry.

- A. True
- B. False

Answer: A

NEW QUESTION 54

Your Terraform configuration declares a variable. You want to enforce that its value meets your specific requirements, and you want to block the Terraform operation if it does not. What should you add to your configuration?

- A. Add a top-level check block.
- B. Add a validation block to the variable block.
- C. Add a top-level validation block.
- D. Add a check block to the variable block.

Answer: B

NEW QUESTION 58

Which method for sharing Terraform configurations fulfills the following criteria:

- * 1. Keeps the configurations confidential within your organization
- * 2. Support Terraform's semantic version constraints

* 3. Provides a browsable directory

- A. Subfolder within a workspace
- B. Generic git repository
- C. Terraform Cloud private registry
- D. Public Terraform module registry

Answer: C

NEW QUESTION 59

A Terraform provider is NOT responsible for:

- A. Exposing resources and data sources based on an API
- B. Managing actions to take based on resources differences
- C. Understanding API interactions with some service
- D. Provisioning infrastructure in multiple

Answer: D

NEW QUESTION 61

How does Terraform manage most dependencies between resources?

- A. Terraform will automatically manage most resource dependencies
- B. Using the depends_on parameter
- C. By defining dependencies as modules and including them in a particular order
- D. The order that resources appear in Terraform configuration indicates dependencies

Answer: A

NEW QUESTION 65

Which of the following does terraform apply change after you approve the execution plan? (Choose two.)

- A. Cloud infrastructure
- B. The .terraform directory
- C. The execution plan
- D. State file
- E. Terraform code

Answer: AD

NEW QUESTION 68

You want to create a string that combines a generated random_id and a variable and reuse that string several times in your configuration. What is the simplest correct way to implement this without repeating the random_id and variable?

- A. Use a module.
- B. Add an output value.
- C. Add a local value.
- D. Use a data source.

Answer: C

NEW QUESTION 69

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

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

Answer: C

NEW QUESTION 71

Which parameters does the import block require? (Pick the 2 correct responses below.)

- A. The resource ID
- B. Provider
- C. The target resource address
- D. Backend

Answer: AC

NEW QUESTION 73

You want to use API tokens and other secrets within your team's Terraform workspaces. Where does HashiCorp recommend you store these sensitive values? (Pick 3 correct responses)

- A. In a plaintext document on a shared drive.
- B. In a terraform.tfvars file, checked into version control.
- C. In a terraform.tfvars file, securely managed and shared with your team.
- D. In an HCP Terraform/Terraform Cloud variable, with the sensitive option checked.
- E. In HashiCorp Vault.

Answer: CDE

NEW QUESTION 74

Running terraform fmt without any flags in a directory with Terraform configuration files will check the formatting of those files, but will never change their contents.

- A. True
- B. False

Answer: B

NEW QUESTION 78

What does Terraform use the .terraform.lock.hc1 file for?

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

Answer: B

NEW QUESTION 79

You can access state stored with the local backend by using terraform_remote_state data source.

- A. True
- B. False

Answer: B

NEW QUESTION 84

Terraform can only manage resource dependencies if you set them explicitly with the depends_on argument.

- A. True
- B. False

Answer: B

NEW QUESTION 89

Which of these are features of Terraform Cloud? Choose two correct answers.

- A. A web-based user interface (UI)
- B. Automated infrastructure deployment visualization
- C. Automatic backups
- D. Remote state storage

Answer: AD

NEW QUESTION 92

terraform validate uses provider APIs to verify your infrastructure settings.

- A. True
- B. False

Answer: B

NEW QUESTION 93

The Terraform binary version and provider versions must match each other in a single configuration.

- A. True
- B. False

Answer: B

NEW QUESTION 98

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. Append ?ref=v1.0.0 argument to the source path.
- B. You cannot

- C. Modules stored on the public Terraform Registry do not support versioning.
- D. Add a version = "1.0.0" attribute to the module block.
- E. Nothin
- F. Modules stored on the public Terraform module Registry always default to version 1.0.0.

Answer: C

NEW QUESTION 100

Which are forbidden actions when the terraform state file is locked? Choose three correct answers.

- A. Terraform state list
- B. Terraform destroy
- C. Terraform validate
- D. Terraform validate
- E. Terraform for
- F. Terraform apply

Answer: BCF

NEW QUESTION 104

What does the default "local" Terraform backend store?

- A. tfplan files
- B. State file
- C. Provider plugins
- D. Terraform binary

Answer: B

NEW QUESTION 108

Exhibit.

```
provider "aws" {  
  region = "us-east-1"  
}
```

```
provider "aws" {  
  alias = "west"  
  region = "us-west-2"  
}
```

You need to deploy resources into two different regions in the same Terraform configuration. To do this, you declare multiple provider configurations as shown in the Exhibit space on this page.

What meta-argument do you need to configure in a resource block to deploy the resource to the us-west-2 AWS region?

- A. provider = aws.west
- B. alias = aws.west
- C. provider = west
- D. alias = west

Answer: A

NEW QUESTION 110

When should you write Terraform configuration files for existing infrastructure that you want to start managing with Terraform?

- A. You can import infrastructure without corresponding Terraform code
- B. Terraform will generate the corresponding configuration files for you
- C. Before you run terraform Import
- D. After you run terraform import

Answer: C

NEW QUESTION 111

You're writing a Terraform configuration that needs to read input from a local file called id_rsa.pub . Which built-in Terraform function can you use to import the file's contents as a string?

- A. file("id_rsa.pub")
- B. templatefile("id_rsa.pub")
- C. filebase64("id_rsa.pub")
- D. fileset<"id_rsa.pub")

Answer: A

NEW QUESTION 112

If a DevOps team adopts AWS CloudFormation as their standardized method for provisioning public cloud resources, which of the following scenarios poses a challenge for this team?

- A. The team is asked to manage a new application stack built on AWS-native services
- B. The organization decides to expand into Azure wishes to deploy new infrastructure
- C. The team is asked to build a reusable code based that can deploy resources into any AWS region
- D. The DevOps team is tasked with automating a manual, web console-based provisioning.

Answer: B

NEW QUESTION 117

You modified your Terraform configuration to fix a typo in the resource ID by renaming it from photoes to photos. What configuration will you add to update the resource ID in state without destroying the existing resource?

Original configuration:

```
resource "aws_s3_bucket" "photoes" { bucket_prefix = "images"
}
```

Updated configuration:

```
resource "aws_s3_bucket" "photos" { bucket_prefix = "images"
}
```

- A. `moved {from = aws_s3_bucket.photoesto = aws_s3_bucket.photos}`
- B. `moved {bucket.photoes = aws_s3_bucket.photos}`
- C. `moved {aws_s3_bucket.photoes = aws_s3_bucket.photos}`
- D. Non
- E. Terraform will automatically update the resource ID.

Answer: A

NEW QUESTION 121

terraform destroy is the only way to remove infrastructure.

- A. True
- B. False

Answer: B

NEW QUESTION 126

Which of the following should you put into the required_providers block?

- A. `version >= 3.1`
- B. `version = ??>= 3.1??`
- C. `version ~> 3.1`

Answer: B

NEW QUESTION 130

You've used Terraform to deploy a virtual machine and a database. You want to replace this virtual machine instance with an identical one without affecting the database. What is the best way to achieve this using Terraform?

- A. Use the terraform state rm command to remove the VM from state file
- B. Use the terraform taint command targeting the VMs then run terraform plan and terraform apply
- C. Use the terraform apply command targeting the VM resources only
- D. Delete the Terraform VM resources from your Terraform code then run terraform plan and terraform apply

Answer: B

NEW QUESTION 132

Which backend does the Terraform CLI use by default?

- A. Depends on the cloud provider configured
- B. HTTP
- C. Remote
- D. Terraform Cloud
- E. Local

Answer: E

NEW QUESTION 134

Your root module contains a variable named num_servers. Which is the correct way to pass its value to a child module with an input named servers?

- A. `servers = num_servers`
- B. `servers = var(num_servers)`

- C. servers = var.num_servers
- D. servers = \${var.num_servers}

Answer: C

NEW QUESTION 139

A developer accidentally launched a VM (virtual machine) outside of the Terraform workflow and ended up with two servers with the same name. They don't know which VM Terraform manages but do have a list of all active VM IDs.

Which of the following methods could you use to discover 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. Update the code to include outputs for the ID of all VMs, then run terraform plan to view the outputs
- C. Run terraform taint/code on all the VMs to recreate them
- D. Use terraform refresh/code to find out which IDs are already part of state

Answer: A

NEW QUESTION 142

Module version is required to reference a module on the Terraform Module Registry.

- A. True
- B. False

Answer: B

NEW QUESTION 146

When you use a backend that requires authentication, it is best practice to:

- A. Run all Terraform commands on a shared server or container.
- B. Configure the authentication credentials in your Terraform configuration files, and store them in version control.
- C. Use environment variables to configure authentication credentials outside of your Terraform configuration.
- D. None of the above.

Answer: C

NEW QUESTION 148

It is best practice to store secret data in the same version control repository as your Terraform configuration.

- A. True
- B. False

Answer: B

NEW QUESTION 153

You've just finished refactoring part of your Terraform workspace's configuration to use a module to manage some of your resources. When you plan your changes, you notice that Terraform will destroy and recreate the affected resources. Doing so could cause unintended downtime in the application your workspace manages. What supported approach should you take to complete the refactor without destroying and recreating your resources?

- A. Add moved blocks to your configuration to let Terraform know the new resource addresses for the affected resources.
- B. Run the terraform console command to edit your workspace's state and update the resource names.
- C. Manually edit your terraform.tfstate file and update the resource names.
- D. Open your cloud provider's console and rename the affected resources.

Answer: A

NEW QUESTION 156

Which of the following is not a valid Terraform collection type?

- A. Tree
- B. Map
- C. List
- D. set

Answer: A

NEW QUESTION 161

When you initialize Terraform, where does it cache modules from the public Terraform Registry?

- A. In the /tmp directory.
- B. In the .terraform sub-directory.
- C. In memory.
- D. They are not cached.

Answer: B

NEW QUESTION 163

Terraform requires using a different provider for each cloud provider where you want to deploy resources.

- A. True
- B. False

Answer: A

NEW QUESTION 164

You want to define a single input variable to capture configuration values for a server. The values must represent memory as a number, and the server name as a string.

Which variable type could you use for this input?

- A. List
- B. Object
- C. Map
- D. Terraform does not support complex input variables of different types

Answer: B

NEW QUESTION 169

You just scaled your VM infrastructure and realize you set the count variable to the wrong value. You correct the value and save your change. What must you do next to make your infrastructure match your configuration?

- A. Reinitialize because your configuration has changed.
- B. Inspect all Terraform outputs to make sure they are correct.
- C. Inspect your Terraform state because you want to change it.
- D. Run terraform apply and confirm the planned changes.

Answer: D

NEW QUESTION 170

What feature stops multiple users from operating on the Terraform state at the same time?

- A. State locking
- B. Version control
- C. Provider constraints
- D. Remote backends

Answer: A

NEW QUESTION 171

You are using a networking module in your Terraform configuration with the name label my-network. In your main configuration you have the following code: When you run terraform validate, you get the following error:

What must you do to successfully retrieve this value from your networking module?

- A. Change the reference value to my-network,outputs,vmet_id
- B. Define the attribute vmet_id as a variable in the networking modeule
- C. Define the attribute vnet_id as an output in the networking module
- D. Change the reference value module.my,network,outputs,vnet_id

Answer: C

NEW QUESTION 172

When using Terraform to deploy resources into Azure, which scenarios are true regarding state files? (Choose two.)

- A. When you change a Terraform-managed resource via the Azure Cloud Console, Terraform updates the state file to reflect the change during the next plan or apply
- B. Changing resources via the Azure Cloud Console records the change in the current state file
- C. When you change a resource via the Azure Cloud Console, Terraform records the changes in a new state file
- D. Changing resources via the Azure Cloud Console does not update current state file

Answer: AD

NEW QUESTION 177

A Terraform local value can reference other Terraform local values.

- A. True
- B. False

Answer: A

NEW QUESTION 181

In a HCP Terraform/Terraform Cloud workspace linked to a version control repository, speculative plan runs start automatically when you merge or commit changes to version control.

- A. True
- B. False

Answer: A

NEW QUESTION 182

What is modified when executing Terraform inrefresh-only mode?

- A. Your Terraform configuration.
- B. Your Terraform plan.
- C. Your state file.
- D. Your cloud infrastructure.

Answer: C

NEW QUESTION 184

A senior admin accidentally deleted some of your cloud instances. What will Terraform do when you run terraform apply?

- A. Tear down the entire workspace's infrastructure and rebuild it.
- B. Build a completely brand new set of infrastructure.
- C. Rebuild only the instances that were deleted.
- D. Stop and generate an error message about the missing instances.

Answer: C

NEW QUESTION 189

You 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 the resources that will be deleted? (Pick the 2 correct responses)

- A. Runterraform destro
- B. This will output all the resources that will be deleted before prompting for approval.
- C. Runterraform show -destroy.
- D. Runterraform state rm *.

Answer: AB

NEW QUESTION 194

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

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

Answer: D

NEW QUESTION 197

Which command generates DOT (Document Template) formatted data to visualize Terraform dependencies?

- A. terraform graph
- B. terraform show
- C. terraform refresh
- D. terraform output

Answer: A

NEW QUESTION 200

Which configuration consistency errors does terraform validate report?

- A. Terraform module isn't the latest version
- B. Differences between local and remote state
- C. Declaring a resource identifier more than once
- D. A mix of spaces and tabs in configuration files

Answer: C

NEW QUESTION 203

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

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

Answer: CE

NEW QUESTION 207

Which of the following is not a valid Terraform variable type?

- A. list
- B. array
- C. nap
- D. string

Answer: B

NEW QUESTION 211

Exhibit:

```
resource "aws_instance" "example" { ami = "ami-0a123456789abcdef" instance_type = "t3.micro" }
```

You are updating a child module with the resource block shown in the exhibit. The `public_ip` attribute of the resource needs to be accessible to the parent module. How do you meet this requirement?

- A. Create an output in the child module.
- B. Add a data source to the parent module.
- C. Add an import block to the parent module.
- D. Create a local value in the child module.

Answer: A

NEW QUESTION 214

What type of information can be found on the Terraform Registry when using published modules?

- A. Required input variables.
- B. Outputs.
- C. Optional input variables and default values.
- D. All of the above.

Answer: D

NEW QUESTION 215

Why would you use the `-replace` flag for terraform apply?

- A. You want to force Terraform to destroy a resource on the next apply.
- B. You want Terraform to ignore a resource on the next apply.
- C. You want to force Terraform to destroy and recreate a resource on the next apply.
- D. You want Terraform to destroy all the infrastructure in your workspace.

Answer: C

NEW QUESTION 219

.....

Thank You for Trying Our Product

We offer two products:

1st - We have Practice Tests Software with Actual Exam Questions

2nd - Questons and Answers in PDF Format

Terraform-Associate-004 Practice Exam Features:

- * Terraform-Associate-004 Questions and Answers Updated Frequently
- * Terraform-Associate-004 Practice Questions Verified by Expert Senior Certified Staff
- * Terraform-Associate-004 Most Realistic Questions that Guarantee you a Pass on Your FirstTry
- * Terraform-Associate-004 Practice Test Questions in Multiple Choice Formats and Updatesfor 1 Year

100% Actual & Verified — Instant Download, Please Click
[Order The Terraform-Associate-004 Practice Test Here](#)