



HashiCorp

Exam Questions Terraform-Associate-004

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

NEW QUESTION 1

Which provider authentication method prevents credentials from being stored in the state file?

- A. Using environment variables
- B. Specifying the login credentials in the provider block
- C. Setting credentials as Terraform variables
- D. None of the above

Answer: D

NEW QUESTION 2

You modified your Terraform configuration and run Terraform plan to review the changes.

Simultaneously, your teammate manually modified the infrastructure component you are working on. Since you already ran terraform plan locally, the execution plan for terraform apply will be the same.

- A. True
- B. False

Answer: B

NEW QUESTION 3

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 4

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 5

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

- A. True
- B. False

Answer: A

NEW QUESTION 6

If you manually destroy infrastructure, what is the best practice reflecting this change in Terraform?

- A. Run terraform refresh
- B. It will happen automatically
- C. Manually update the state file
- D. Run terraform import

Answer: B

NEW QUESTION 7

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 8

Which features do HCP Terraform workspaces provide that are not available in Terraform Community Edition? (Pick the 3 correct responses below.)

- A. State versions and run history.

- B. Automatic detection of common security issues.
- C. Store Terraform and environment variables in variable sets.
- D. Remote execution of Terraform operations.
- E. Store your configuration in a Version Control System (VCS).
- F. Support for multiple cloud providers.

Answer: ACD

NEW QUESTION 9

Which argument can you use to prevent unexpected updates to a module's configuration when calling Terraform Registry modules?

- A. source
- B. count
- C. version
- D. lifecycle

Answer: C

NEW QUESTION 10

You are tasked with making a change to an infrastructure stack running in a public cloud using HCP Terraform/Terraform Cloud. Which pattern follows IaC best practices?

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

Answer: B

NEW QUESTION 10

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 13

Which command must you first run before performing further Terraform operations in a working directory?

- A. `terraform import`
- B. `terraform workspace`
- C. `terraform plan`
- D. `terraform init`

Answer: D

NEW QUESTION 17

What's the proper syntax for the `plan` command?

- A. `terraform apply -var-file=tfplan`
- B. `terraform plan -target=tfplan`
- C. `terraform plan -generate-config-out=tfplan`
- D. `terraform plan -out=tfplan`

Answer: D

NEW QUESTION 19

You are working on some new application features and you want to spin up a copy of your production deployment to perform some quick tests. In order to avoid having to configure a new state backend, what open source Terraform feature would allow you create multiple states but still be associated with your current code?

- A. Terraform data sources
- B. Terraform local values
- C. Terraform modules
- D. Terraform workspaces
- E. None of the above

Answer: D

NEW QUESTION 24

You have a simple Terraform configuration containing one virtual machine (VM) in a cloud provider. You run `terraform apply` and the VM is created successfully. What will happen if you `terraform apply` again immediately afterward without changing any Terraform code?

- A. Terraform will terminate and recreate the VM.
- B. Terraform will create another duplicate VM.
- C. Terraform will apply the VM to the state file.
- D. Nothing

Answer: D

NEW QUESTION 28

Your team is using version 3.1.4 of a module from the public Terraform Registry, and they are worried about possible breaking changes in future versions of the module. Which version argument should you add to the module block to prevent newer versions from being used?

- A. version = "< 3.2"
- B. version = ">= 3.1.5"
- C. version = "3.1.4"
- D. version = "~> 3.1.4"

Answer: C

NEW QUESTION 32

Exhibit:

```
module "network" {  
  source = "terraform-google-modules/network/google" version = "~> 11.0"  
}
```

What version of the source module does Terraform allow with the module block shown in the exhibit?

- A. Any version of the module > 11.0.
- B. Any version of the module >= 11.0.
- C. Any version of the module >= 11.0 and < 12.0.
- D. Any version of the module >= 11.0.0 and < 11.1.0.

Answer: C

NEW QUESTION 37

What does Terraform not reference when running a terraform apply -refresh-only ?

- A. State file
- B. Credentials
- C. Cloud provider
- D. Terraform resource definitions in configuration files

Answer: D

NEW QUESTION 42

You are making changes to existing Terraform code to add some new infrastructure. When is the best time to run terraform validate?

- A. After you run terraform apply so you can validate your infrastructure
- B. Before you run terraform apply so you can validate your provider credentials
- C. Before you run terraform plan so you can validate your code syntax
- D. After you run terraform plan so you can validate that your state file is consistent with your infrastructure

Answer: C

NEW QUESTION 47

You have a simple Terraform configuration containing one VM (virtual machine) in a cloud provider. You run terraform apply and the VM is created successfully. What will happen if you run terraform apply again immediately afterwards without changing any Terraform code?

- A. Terraform will terminate and recreate the VM.
- B. Terraform will create another duplicate VM.
- C. Terraform will apply the VM to the state file.
- D. Terraform will take no action.

Answer: D

NEW QUESTION 50

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: C

NEW QUESTION 52

When using multiple configurations of the same Terraform provider, what meta-argument must you include in any non-default provider configurations?

- A. depends_on
- B. alias
- C. name
- D. id

Answer: B

NEW QUESTION 53

One cloud block always maps to a single HCP Terraform/Terraform Cloud workspace.

- A. True
- B. False

Answer: A

NEW QUESTION 57

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 59

You just upgraded the version of a provider in an existing Terraform project. What do you need to do to install the new provider?

- A. Run terraform refresh.
- B. Run terraform init -upgrade.
- C. Run terraform apply -upgrade.
- D. Upgrade your version of Terraform.

Answer: B

NEW QUESTION 62

Which situation will return an error when you run terraform validate?

- A. The state file does not match the current infrastructure.
- B. The code contains tabs for indentation instead of spaces.
- C. There is a missing variable block.
- D. None of these will return an error.

Answer: C

NEW QUESTION 63

You cannot install third party plugins using terraform init.

- A. True
- B. False

Answer: B

NEW QUESTION 68

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 72

Which is the best way to specify a tag of v1.0.0 when referencing a module stored in Git (for example. Git::https://example.com/vpc.git)?

- A. Append pref=v1.0.0 argument to the source path
- B. Add version = ??1.0.0?? parameter to module block
- C. Nothing modules stored on GitHub always default to version 1.0.0

Answer: A

NEW QUESTION 73

Terraform providers are always installed from the Internet.

- A. True
- B. False

Answer: B

NEW QUESTION 77

Which method for sharing Terraform configurations fulfills the following criteria:

- * 1. Keeps the configurations confidential within your organization
- * 2. Support Terraform??s semantic version constrains
- * 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 79

The determines how Terraform creates, updates, or delete resources.

- A. Terraform configuration
- B. Terraform provisioner
- C. Terraform provider
- D. Terraform core

Answer: C

NEW QUESTION 83

You corrected a typo in a resource name, changing it from `aws_s3_bucket.photoes` to `aws_s3_bucket.photos`. You want to update the Terraform state so that the existing resource is recognized under the new name, without destroying and recreating it. Which configuration should you use?

- A. Remove the old resource from your configuration and re-import it.
- B. Run `terraform apply -refresh-only`.
- C. Do nothing — Terraform will automatically update the state.
- D. Add a `moved` block to your configuration.

Answer: D

NEW QUESTION 85

How can a ticket-based system slow down infrastructure provisioning and limit the ability to scale? Choose two correct answers.

- A. End-users have to request infrastructure changes
- B. Ticket based systems generate a full audit trail of the request and fulfillment process
- C. Users can access catalog of approved resources from drop down list in a request form
- D. The more resources your organization needs, the more tickets your infrastructure team has to process

Answer: A

NEW QUESTION 86

Your team adopts AWS CloudFormation as the standardized method for provisioning public cloud resources. Which scenario presents a challenge for your team?

- A. Building a reusable code base that can deploy resources into any AWS region.
- B. Managing a new application stack built on AWS-native services.
- C. Automating a manual, web console-based provisioning process.
- D. Deploying new infrastructure into Microsoft Azure.

Answer: D

NEW QUESTION 91

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 96

What functionality do providers offer in Terraform? (Pick the 3 correct responses below.)

- A. Group a collection of Terraform configuration files that map to a single state file.
- B. Provision resources for on-premises infrastructure services.
- C. Provision resources for public cloud infrastructure services.
- D. Interact with cloud provider APIs.
- E. Enforce security and compliance policies.

Answer: BCD

NEW QUESTION 100

What is the provider for this resource?

- A. Vpc
- B. Test
- C. Main
- D. aws

Answer: D

NEW QUESTION 105

What is one disadvantage of using dynamic blocks in Terraform?

- A. Dynamic blocks can construct repeatable nested blocks
- B. Terraform will run more slowly
- C. They cannot be used to loop through a list of values
- D. They make configuration harder to read and understand

Answer: D

NEW QUESTION 109

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 114

You want to define multiple data disks as nested blocks inside the resource block for a virtual machine. What Terraform feature would help you define the blocks using the values in a variable?

- A. Local values
- B. Count arguments
- C. Collection functions
- D. Dynamic blocks

Answer: D

NEW QUESTION 116

A resource block is shown in the Exhibit space of this page. What is the Terraform resource name of the resource block?

- A. test
- B. google
- C. compute_instance
- D. main

Answer: D

NEW QUESTION 119

If you update the version constraint in your Terraform configuration, Terraform will update your lock file the next time you run terraform Init.

- A. True
- B. False

Answer: A

NEW QUESTION 123

All modules published on the official Terraform Module Registry have been verified by HashiCorp.

- A. True
- B. False

Answer: B

NEW QUESTION 124

Which of the following are advantages of using infrastructure as code (IaC) instead of provisioning with a graphical user interface (GUI)? Choose two correct answers.

- A. Lets you version, reuse, and share infrastructure configuration
- B. Provisions the same resources at a lower cost
- C. Secures your credentials
- D. Reduces risk of operator error
- E. Prevents manual modifications to your resources

Answer: AD

NEW QUESTION 125

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

- A. True
- B. False

Answer: B

NEW QUESTION 129

A resource block is shown in the Exhibit space of this page. How would you reference the name value of the second instance of this resource?

- A. aws_instance.web[2].name
- B. aws_instance.web.*.name
- C. aws_instance.web[0].name
- D. aws_instance.web[1]
- E. element(aws_instance.web, 2)

Answer: C

NEW QUESTION 134

What is the primary purpose of IaC (Infrastructure as Code)?

- A. To provision infrastructure cheaply.
- B. To programmatically create and configure resources.
- C. To define a vendor-agnostic API.
- D. To define a pipeline to test and deliver software.

Answer: B

NEW QUESTION 139

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

Answer: B

NEW QUESTION 140

Which is a benefit of using infrastructure as code (IaC) tools compared to native platform APIs?

- A. IaC allows you to write each API call required to reach the desired configuration.
- B. IaC calls native command line tools, which are more efficient than API calls.
- C. IaC configurations define the current state of infrastructure, which allows you to identify the correct API calls to make changes.
- D. IaC configurations define the end state of the infrastructure without having to write API calls to reach the desired configuration.

Answer: D

NEW QUESTION 143

You have a simple Terraform configuration containing one virtual machine (VM) in a cloud provider. You run terraform apply and the VM is created successfully. What will happen if you delete the VM using the cloud provider console, then run terraform apply again without changing any Terraform code?

- A. Terraform will recreate the VM.
- B. Terraform will report an error.
- C. Terraform will remove the VM from the state file.
- D. Terraform will not make any changes.

Answer: A

NEW QUESTION 144

Which of these are benefits of using Sentinel with HCP Terraform/Terraform Cloud? (Pick the 3 correct responses)

- A. You can enforce a list of approved AWS AMIs.
- B. Sentinel Policies can be written in HashiCorp Configuration Language (HCL).
- C. You can check out and check in cloud access keys.
- D. Policy-as-code can enforce security best practices.

Answer: ACD

NEW QUESTION 148

You have never used Terraform before and would like to test it out using a shared team account for a cloud provider. The shared team account already contains 15 virtual machines (VM). You develop a Terraform configuration containing one VM. perform terraform apply, and see that your VM was created successfully. What should you do to delete the newly-created VM with Terraform?

- A. The Terraform state file contains all 16 VMs in the team account
- B. Execute terraform destroy and select the newly-created VM.
- C. Delete the Terraform state file and execute terraform apply.
- D. The Terraform state file only contains the one new V
- E. Execute terraform destroy.
- F. Delete the VM using the cloud provider console and terraform apply to apply the changes to the Terraform state file.

Answer: C

NEW QUESTION 153

Which of these workflows is only enabled by the use of Infrastructure as Code?

- A. Automatic scaling of resources based on application load.
- B. Role-based access control of cloud resources.
- C. Cost optimization of infrastructure deployment.
- D. Reviewing the proposed changes for potential security issues.

Answer: D

NEW QUESTION 158

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

- A. True
- B. False

Answer: B

NEW QUESTION 163

Which is a benefit of the Terraform state file?

- A. A state file can schedule recurring infrastructure tasks.
- B. A state file is the desired state expressed by the Terraform code files.
- C. A state file is a source of truth for resources provisioned with Terraform.
- D. A state file is a source of truth for resources provisioned with a public cloud console.

Answer: C

NEW QUESTION 164

Which are examples of infrastructure as code? Choose two correct answers.

- A. Cloned virtual machine images
- B. Versioned configuration files
- C. Change management database records
- D. Doctor files

Answer: B

NEW QUESTION 165

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

- A. True
- B. False

Answer: B

NEW QUESTION 167

How would you reference the volume IDs associated with the ebs_block_device blocks in this configuration?

```
resource "aws_instance" "example" {
  ami = "ami-abc123"
  instance_type = "t2.micro"

  ebs_block_device {
    device_name = "sda2"
    volume_size = 16
  }

  ebs_block_device {
    device_name = "sda3"
    volume_size = 20
  }
}
```

- A. aws_instance.example.ebs_block_device[sda2,sda3].volume_id
- B. aws_Instance.example.ebs_block_device.[*].volume_id
- C. aws_Instance.example.ebs_block_device.volume_ids
- D. aws_instance.example-ebs_block_device.*.volume_id

Answer: D

NEW QUESTION 172

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

Answer: D

NEW QUESTION 176

What does the default "local" Terraform backend store?

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

Answer: B

NEW QUESTION 178

You can configure multiple cloud blocks in your Terraform configuration to connect your workspace to both HCP Terraform and your Terraform Enterprise instance.

- A. True
- B. False

Answer: B

NEW QUESTION 183

Which task does terraform init not perform?

- A. Discovers all providers used in the configuration and downloads them.
- B. Validates that values are set for all required input variables.
- C. Connects to the configured backend.
- D. Discovers any remote modules and downloads them.

Answer: B

NEW QUESTION 186

Before you can use a new backend or HCP Terraform/Terraform Cloud integration, you must first execute terraform init.

- A. True
- B. False

Answer: A

NEW QUESTION 187

What is the workflow for deploying new infrastructure with Terraform?

- A. Write Terraform configuration, run terraform init to initialize the working directory or workspace, and run terraform apply
- B. Write Terraform configuration, run terraform show to view proposed changes, and terraform apply to create new infrastructure
- C. Write Terraform configuration, run terraform apply to create infrastructure, use terraform validate to confirm Terraform deployed resources correctly
- D. Write Terraform configuration, run terraform plan to initialize the working directory or workspace, and terraform apply to create the infrastructure

Answer: A

NEW QUESTION 190

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 192

What command can you run to generateDOT (Graphviz)formatted data to visualize Terraform dependencies?

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

Answer: B

NEW QUESTION 196

You have just developed a new Terraform configuration for two virtual machines with a cloud provider. You would like to create the infrastructure for the first time. Which Terraform command should you runfirst?

- A. terraform apply
- B. terraform init
- C. terraform plan
- D. terraform show

Answer: B

NEW QUESTION 201

terraform validate confirms thesyntaxof Terraform files.

- A. True
- B. False

Answer: A

NEW QUESTION 204

What kind of configuration block will manage an infrastructure object with settings specified within the block?

- A. resource
- B. provider
- C. data

D. locals

Answer: A

NEW QUESTION 209

Only the user that generated a terraform plan may apply it.

- A. True
- B. False

Answer: B

NEW QUESTION 213

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 217

Multiple team members are collaborating on infrastructure using Terraform and want to format the* Terraform code following standard Terraform-style convention. How should they ensure the code satisfies conventions?

- A. Terraform automatically formats configuration on terraform apply
- B. Run terraform validate prior to executing terraform plan or terraform apply
- C. Use terraform fmt
- D. Replace all tabs with spaces

Answer: C

NEW QUESTION 222

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

- A. True
- B. False

Answer: A

NEW QUESTION 227

Which of the following is not a key principle of infrastructure as code?

- A. Self-describing infrastructure
- B. Idempotence
- C. Versioned infrastructure
- D. Golden images

Answer: D

NEW QUESTION 232

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 236

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 240

A Terraform local value can reference other Terraform local values.

- A. True
- B. False

Answer: A

NEW QUESTION 245

A module can always refer to all variables declared in its parent module.

- A. True
- B. False

Answer: B

NEW QUESTION 248

terraform apply will fail if you have not run terraform plan first to update the plan output.

- A. True
- B. False

Answer: B

NEW QUESTION 253

Terraform installs its providers during which phase?

- A. Plan
- B. Init
- C. Refresh
- D. All of the above

Answer: B

NEW QUESTION 256

Terraform configuration can only import modules from the public registry.

- A. True
- B. False

Answer: B

NEW QUESTION 258

You decide to move a Terraform state file to Amazon S3 from another location. You write the code below into a file called backend.tf. Which command will migrate your current state file to the new S3 remote backend?

- A. terraform state
- B. terraform init
- C. terraform push
- D. terraform refresh

Answer: B

NEW QUESTION 261

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 265

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

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

Answer: B

NEW QUESTION 269

Using the terraform state rm command against a resource will destroy it.

- A. True
- B. False

Answer: B

NEW QUESTION 270

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