

# HashiCorp

## Exam Questions Terraform-Associate-004

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



#### NEW QUESTION 1

Which of the following can you do with terraform plan?  
Pick the two correct responses below.

- A. Save a generated execution plan to apply later.
- B. View the execution plan and check whether the changes match your expectations.
- C. Schedule Terraform to run at a planned time in the future.
- D. Execute a plan in a different workspace.

**Answer:** AB

#### NEW QUESTION 2

Before you can use a remote backend, you must first execute terra-form init.

- A. True
- B. False

**Answer:** A

#### NEW QUESTION 3

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 4

What is the purpose of the .terraform directory in a Terraform workspace?

- A. The directory is where Terraform creates and maintains the state file to track the underlying resources it creates and manages.
- B. The directory is used to convert and store Terraform configuration files into API calls to communicate with the targeted platform.
- C. The directory contains the provider credentials and the .tfvars files to prevent them from being committed to version control by accident.
- D. The directory contains plugins and modules that Terraform downloads during initialization, along with other important information.

**Answer:** D

#### NEW QUESTION 5

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

- A. True
- B. False

**Answer:** A

#### NEW QUESTION 6

You can define multiple backend blocks in your Terraform configuration to store your state in multiple locations.

- A. True
- B. False

**Answer:** B

#### NEW QUESTION 7

Which of the following is not a way to trigger terraform destroy?

- A. Using the destroy command with auto-approve.
- B. Passing --destroy at the end of a plan request.
- C. Running terraform destroy from the correct directory and then typing yes when prompted in the CLI.

**Answer:** B

#### 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

How can terraform plan aid in the development process?

- A. Initializes your working directory containing your Terraform configuration files
- B. Validates your expectations against the execution plan without permanently modifying state
- C. Formats your Terraform configuration files
- D. Reconciles Terraform's state against deployed resources and permanently modifies state using the current status of deployed resources

**Answer:** B

#### NEW QUESTION 10

terraform apply is failing with the following error. What next step should you take to determine the root cause of the problem?

Error:

yaml

CopyEdit

Error loading state: AccessDenied: Access Denied

status code: 403, request id: 288766CE5CCA24A0, host id: web.example.com

- A. Run terraform login to reauthenticate with the provider.
- B. Set TF\_LOG=DEBUG.
- C. Review /var/log/terraform.log for error messages.
- D. Review syslog for Terraform error messages.

**Answer:** B

#### NEW QUESTION 10

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 15

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 18

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 21

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=v1.6.0"
- C. source - "hashicorp/consul/aws"
- D. source - "./module"

**Answer:** B

#### NEW QUESTION 25

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

- A. With a tab

- B. With two spaces
- C. With four spaces
- D. With three spaces

**Answer:** B

#### NEW QUESTION 30

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 34

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 39

Only the user that generated a plan may apply it.

- A. True
- B. False

**Answer:** B

#### NEW QUESTION 41

Which of the following can you do with terraform plan? (Pick 2 correct responses)

- A. Schedule Terraform to run at a planned time in the future.
- B. View the execution plan and check if the changes match your expectations.
- C. Save a generated execution plan to apply later.
- D. Execute a plan in a different workspace.

**Answer:** BC

#### NEW QUESTION 43

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 47

What value does the Terraform Cloud private registry provide over the public Terraform Module Registry?

- A. The ability to share modules publicly with any user of Terraform
- B. The ability to restrict modules to members of Terraform Cloud or Enterprise organizations
- C. The ability to tag modules by version or release
- D. The ability to share modules with public Terraform users and members of Terraform Cloud Organizations

**Answer:** B

#### NEW QUESTION 51

Which of the following command would be used to access all of the attributes and details of a resource managed by Terraform?

- A. Terraform state show ?? provider\_type\_name
- B. Terraform state list
- C. Terraform get provider\_type\_name
- D. Terraform state list provider\_type\_name

**Answer:** A

#### NEW QUESTION 55

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

- A. True
- B. False

**Answer:** A

#### NEW QUESTION 60

What is a Terraform provider not responsible for?

- A. Provisioning infrastructure in multiple cloud providers.
- B. Managing actions to take based on resource differences.
- C. Managing resources and data sources based on an API.
- D. Understanding API interactions with a hosted service.

**Answer:** A

#### NEW QUESTION 65

What does terraform destroy do?

- A. Destroys all infrastructure in the Terraform state file.
- B. Destroys all Terraform code files in the current directory, leaving the state file intact.
- C. Destroys all infrastructure in the configured Terraform provider.
- D. Destroys the Terraform state file, leaving the infrastructure intact.

**Answer:** A

#### NEW QUESTION 67

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 70

Which of the following is not a valid string function in Terraform?

- A. chomp
- B. join
- C. slice
- D. split

**Answer:** C

#### NEW QUESTION 74

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 75

You have developed a new cloud-based service that uses proprietary APIs and want to use Terraform to create, manage, and delete users from the service. How can Terraform interact with the service?

- A. Terraform can manage users for any service that is hosted on a public cloud provider.
- B. Develop and publish a custom provider to interact with the service using its proprietary APIs.

**Answer:** B

#### NEW QUESTION 78

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 80

Where does HashiCorp recommend you store API tokens and other secrets within your team's Terraform workspaces? Pick the three correct responses below.

- A. In a plaintext document on a shared drive.
- B. In HashiCorp Vault.
- C. In a terraform.tfvars file, checked into your version control system.
- D. In an environment variable and referenced with TF\_VAR\_variablename.
- E. In an HCP Terraform variable, with the sensitive option checked.

**Answer:** BDE

#### NEW QUESTION 84

Which of the following statements about Terraform modules is not true?

- A. Modules can call other modules
- B. A module is a container for one or more resources
- C. Modules must be publicly accessible
- D. You can call the same module multiple times

**Answer:** C

#### NEW QUESTION 88

When does Terraform create the .terraform.lock.hc1 file?

- A. After your first terraform plan
- B. After your first terraform apply
- C. After your first terraform init
- D. When you enable state locking

**Answer:** C

#### NEW QUESTION 91

When declaring a variable, setting the sensitive argument to true will prevent the value from being stored in the state file.

- A. True
- B. False

**Answer:** B

#### NEW QUESTION 95

Exhibit:

```
resource "azurerm_linux_web_app" "app" { name = "example-app"
resource_group_name = azurerm_resource_group.rg.name location = azurerm_resource_group.rg.location service_plan_id = azurerm_service_plan.plan.id
identity {
type = "UserAssigned"
identity_ids = [azurerm_user_assigned_identity.app.id]
}
}
resource "azurerm_role_assignment" "kv_access" { scope = azurerm_key_vault.kv.id role_definition_name = "Key Vault Secrets User"
principal_id = azurerm_user_assigned_identity.app.principal_id
}
```

Two resource blocks are shown: azurerm\_linux\_web\_app and azurerm\_role\_assignment. When provisioned, the web app will use the role assignment during creation, so the role assignment must be created first. How do you ensure the azurerm\_role\_assignment resource is created first?

- A. Add a depends\_on argument to the azurerm\_linux\_web\_app.
- B. Add a create\_before\_destroy argument to the azurerm\_role\_assignment.
- C. Change the order of the azurerm\_linux\_web\_app and azurerm\_role\_assignment blocks.
- D. Add a count argument to both resources.

**Answer:** A

#### NEW QUESTION 98

You must initialize your working directory before running terraform validate.

- A. True
- B. False

**Answer:** A

#### NEW QUESTION 102

What type of block is used to construct a collection of nested configuration blocks?

- A. Dynamic
- B. For\_each
- C. Nesting
- D. repeated.

**Answer:** A

#### **NEW QUESTION 104**

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 107**

What is terraform plan -refresh-only intended to detect?

- A. Terraform configuration code changes
- B. Corrupt state files
- C. State file drift
- D. Empty state files

**Answer:** C

#### **NEW QUESTION 110**

You're building a CI/CD (continuous integration/continuous delivery) pipeline and need to inject sensitive variables into your Terraform run. How can you do this safely?

- A. Copy the sensitive variables into your Terraform code
- B. Store the sensitive variables in a `secure_vars.tf` file
- C. Store the sensitive variables as plain text in a source code repository
- D. Pass variables to Terraform with a `-var` flag

**Answer:** D

#### **NEW QUESTION 115**

Which of the following is not an advantage of using Infrastructure as Code (IaC) operations?

- A. Self-service infrastructure deployment.
- B. Modify a count parameter to scale resources.
- C. API-driven workflows.
- D. Troubleshoot via a Linux `diff` command.
- E. Public cloud console configuration workflows.

**Answer:** E

#### **NEW QUESTION 120**

Where does the Terraform local backend store its state?

- A. In the terraform file
- B. In the `/tmp` directory
- C. In the `terraform.tfstate` file
- D. In the user's `terraform.state` file

**Answer:** C

#### **NEW QUESTION 121**

A provider configuration block is required in every Terraform configuration. Example:

```
'
provider "provider_name" {
  ...
}
```

- A. True
- B. False

Answer: B

**NEW QUESTION 122**

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

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

Answer: C

**NEW QUESTION 126**

Which parameters does terraform import require? Choose two correct answers.

- A. Provider
- B. Resource ID
- C. Resource address
- D. Path

Answer: BC

**NEW QUESTION 130**

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 134

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 136

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 138

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 143

You add a new resource to an existing Terraform configuration, but do not update the version constraint in the configuration. The existing and new resources use the same provider. The working contains a `.terraform.lock, hc1` file. How will Terraform choose which version of the provider to use?

- A. Terraform will use the version recorded in your lock file
- B. Terraform will use the latest version of the provider for the new resource and the version recorded in the lock file to manage existing resources
- C. Terraform will check your state file to determine the provider version to use
- D. Terraform will use the latest version of the provider available at the time you provision your new resource

**Answer:** A

#### NEW QUESTION 145

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 146

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 151

Terraform configuration can only call modules from the public registry.

- A. True
- B. False

**Answer: B**

#### NEW QUESTION 154

Where in your Terraform configuration do you specify remote state storage settings?

- A. The resource block
- B. The provider block
- C. The data block
- D. The terraform block

**Answer: D**

#### NEW QUESTION 157

Which of the following is not an action performed by terraform init?

- A. Initialize a configured backend.
- B. Create template configuration files.
- C. Load required provider plugins.
- D. Retrieve the source code for all referenced modules.

**Answer: B**

#### NEW QUESTION 162

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 166

In a Terraform Cloud workspace linked to a version control repository speculative plan run start automatically commit changes to version control.

- A. True
- B. False

**Answer: A**

#### NEW QUESTION 167

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 171

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 172

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

- A. True
- B. False

**Answer: B**

#### NEW QUESTION 176

Terraform providers are part of the Terraform core binary.

- A. True
- B. False

**Answer:** B

#### NEW QUESTION 180

When do you need to explicitly execute Terraform in refresh-only mode?

- A. Before every terraform plan.
- B. Before every terraform apply.
- C. Before every terraform import.
- D. None of the above.

**Answer:** C

#### NEW QUESTION 185

Terraform configuration (including any module references) can contain only one Terraform provider type.

- A. True
- B. False

**Answer:** B

#### NEW QUESTION 189

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 190

A developer launched a VM outside of the Terraform workflow and ended up with two servers with the same name. They are unsure which VM is managed with Terraform, but they do have a list of all active VM IDs. Which method could you use to determine which instance Terraform manages?

- A. Modify the Terraform configuration to add an import block for both of the virtual machines.
- B. Run a terraform apply -refresh to identify the virtual machine IDs that are already managed by Terraform.
- C. Run terraform state rm on both VMs, then terraform apply to recreate the correct one.
- D. 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.

**Answer:** D

#### NEW QUESTION 194

How is terraform import run?

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

**Answer:** D

#### NEW QUESTION 195

Once you configure a new Terraform backend with a terraform code block, which command(s) should you use to migrate the state file?

- A. terraform destroy, then terraform apply
- B. terraform init
- C. terraform push
- D. terraform apply

**Answer:** A

#### NEW QUESTION 200

You have a list of numbers that represents the number of free CPU cores on each virtual cluster:

numcpus = [ 18, 3, 7, 11, 2 ]

What Terraform function could you use to select the largest number from the list?

- A. top(numcpus)

- B. max(numcpus)
- C. ceil (numcpus)
- D. hight[numcpus]

**Answer: B**

#### NEW QUESTION 203

By default, if you do not define a backend for your configuration, where does Terraform store information about the resources that it manages?

- A. A subdirectory of your home directory named .terraform.d
- B. A file in your configuration's directory named terraform.tfstate
- C. A file in your configuration's directory named .terraform.lock.hcl
- D. A subdirectory of your configuration named .terraform

**Answer: B**

#### NEW QUESTION 204

You created infrastructure outside the Terraform workflow that you now want to manage using Terraform. Which command brings the infrastructure into Terraform state?

- A. terraform get
- B. terraform refresh
- C. terraform import
- D. terraform init

**Answer: C**

#### NEW QUESTION 205

Which Terraform collection type should you use to store key/value pairs?

- A. Set
- B. Map
- C. Tuple
- D. list

**Answer: B**

#### NEW QUESTION 209

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 show :destroy
- C. Run terraform destroy and it will first output all the resource that will be deleted before prompting for approval
- D. Run terraform plan .destory

**Answer: CD**

#### NEW QUESTION 213

One remote backend configuration always maps to a single remote workspace.

- A. True
- B. False

**Answer: A**

#### NEW QUESTION 215

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

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

**Answer: B**

#### NEW QUESTION 216

What information does the public Terraform Module Registry automatically expose about published modules?

- A. Required input variables
- B. Optional inputs variables and default values
- C. Outputs
- D. All of the above
- E. None of the above

**Answer:** D

**NEW QUESTION 221**

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 225**

You are writing a child Terraform module that provisions an AWS instance. You want to reference the IP address returned by the child module in the root configuration. You name the instance resource "main".

Which of these is the correct way to define the output value?

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** A

**NEW QUESTION 229**

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