

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

Which of the following is not true of Terraform providers?

- A. An individual person can write a Terraform Provider
- B. A community of users can maintain a provider
- C. HashiCorp maintains some providers
- D. Cloud providers and infrastructure vendors can write, maintain, or collaborate on Terraform providers
- E. providers
- F. None of the above

Answer: F

NEW QUESTION 3

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 4

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 5

Which argument can you set on a module block to prevent Terraform from updating the module's configuration during an init or get operation?

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

Answer: A

NEW QUESTION 6

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

- A. True
- B. False

Answer: A

NEW QUESTION 7

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 8

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

- A. True

B. False

Answer: A

NEW QUESTION 9

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 10

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 10

If you don't use the local Terraform backend, where else can Terraform save resource state?

- A. In a remote location configured in the terraform block, such as HCP Terraform or a cloud storage system.
- B. In a remote location configured in the -terraformrc file, such as HCP Terraform or a cloud storage system.
- C. In memory.
- D. In an environment variable.

Answer: A

NEW QUESTION 14

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

- A. True
- B. False

Answer: B

NEW QUESTION 15

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 18

A Terraform backend determines how Terraform loads state and stores updates when you execute which command?

- A. apply
- B. destroy
- C. Both of these are correct.
- D. Neither of these are correct.

Answer: C

NEW QUESTION 21

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 26

Select the command that doesn't cause Terraform to refresh its state.

- A. Terraform destroy

- B. Terraform apply
- C. Terraform plan
- D. Terraform state list

Answer: D

NEW QUESTION 28

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 32

What is an advantage of immutable infrastructure?

- A. In-place infrastructure upgrades
- B. Quicker infrastructure upgrades
- C. Automatic infrastructure upgrades
- D. Less complex infrastructure upgrades

Answer: D

NEW QUESTION 34

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 36

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 40

Which command(s) adds existing resources in a public cloud into Terraform state?

- A. terraform init
- B. terraform plan
- C. terraform refresh
- D. terraform import
- E. All of these

Answer: D

NEW QUESTION 45

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 49

A resource block is shown in the Exhibit section of this page. How would you reference the attribute name of this resource in HCL?

- A. resource.kubernetes_namespace.example.name
- B. kubernetes_namespace.example.name
- C. data.kubernetes_namespace.name
- D. kubernetes_namespace.test.name

Answer: B

NEW QUESTION 50

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 54

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 59

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 64

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 69

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 70

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/bPxrFiCYEXAMPLEKEY"
  }

  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 72

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 73

Where can Terraform not load a provider from?

- A. Plugins directory
- B. Provider plugin chance
- C. Official HashCrop Distribution on releases.hashcrop.com
- D. Source code

Answer: D

NEW QUESTION 77

You have created a main.tf Terraform configuration consisting of an application server, a database and a load balanced. You ran terraform apply and Terraform created all of the resources successfully.

Now you realize that you do not actually need the load balancer, so you run terraform destroy without any flags. What will happen?

- A. Terraform will prompt you to pick which resource you want to destroy
- B. Terraform will destroy the application server because it is listed first in the code
- C. Terraform will prompt you to confirm that you want to destroy all the infrastructure
- D. Terraform will destroy the main, tf file
- E. Terraform will immediately destroy all the infrastructure

Answer: C

NEW QUESTION 82

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 83

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 88

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 91

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 96

You are creating a reusable Terraform configuration and want to include an optional billing_dept tag so your Finance team can track team-specific spending on resources. Which of the following billing_dept variable declarations will achieve this?

- A. variable "billing_dept" { default = "" }
- B. variable "billing_dept" { optional = true }
- C. variable "billing_dept" { type = optional(string) }
- D. variable "billing_dept" { type = default }

Answer: A

NEW QUESTION 101

Which command lets you experiment with terraform expressions?

- A. Terraform console
- B. Terraform validate
- C. Terraform env
- D. Terraform test

Answer: A

NEW QUESTION 102

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 105

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 109

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

- A. True
- B. False

Answer: A

NEW QUESTION 110

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 115

You have to initialize a Terraform backend before it can be configured.

- A. True
- B. False

Answer: B

NEW QUESTION 117

You have provisioned some virtual machines (VMs) on Google Cloud Platform (GCP) using the gcloud command line tool. However, you are standardizing with Terraform and want to manage these VMs using Terraform instead. What are the two things you must do to achieve this? Choose two correct answers.

- A. Run the terraform Import-gcp command
- B. Write Terraform configuration for the existing VMs
- C. Use the terraform import command for the existing VMs
- D. Provision new VMs using Terraform with the same VM names

Answer: BC

NEW QUESTION 122

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 127

Which option cannot be used to keep secrets out of Terraform configuration files?

- A. A Terraform provider
- B. Environment variables
- C. A -var flag
- D. secure string

Answer: D

NEW QUESTION 131

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 133

You cannot install third party plugins using terraform init.

- A. True
- B. False

Answer: B

NEW QUESTION 135

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 139

Terraform providers are always installed from the Internet.

- A. True
- B. False

Answer: B

NEW QUESTION 143

How does Terraform determine dependencies between resources?

- A. Terraform requires resource dependencies to be defined as modules and sourced in order
- B. Terraform automatically builds a resource graph based on resources provisioners, special meta-parameters, and the stale file (if present)
- C. Terraform requires resources in a configuration to be listed in the order they will be created to determine dependencies
- D. Terraform requires all dependencies between resources to be specified using the depends_on parameter

Answer: B

NEW QUESTION 148

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 152

What Terraform command always causes a state file to be updated with changes that might have been made outside of Terraform?

- A. Terraform plan --refresh-only
- B. Terraform show --json
- C. Terraform apply --lock=false
- D. Terraform plan target-state

Answer: A

NEW QUESTION 153

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 154

How do you specify a module's version when publishing it to the public terraform Module Registry?

- A. Configuration it in the module's Terraform code
- B. Mention it on the module's configuration page on the Terraform Module Registry
- C. The Terraform Module Registry does not support versioning modules
- D. Tag a release in the associated repo

Answer: D

NEW QUESTION 156

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 161

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 164

Which statement describes a goal of Infrastructure as Code (IaC)?

- A. A pipeline process to test and deliver software.
- B. Write once, run anywhere.
- C. The programmatic configuration of resources.
- D. Defining a vendor-agnostic API.

Answer: C

NEW QUESTION 167

Which command should you run to check if all code in a Terraform configuration that references multiple modules is properly formatted without making changes?

- A. terraform fmt -write-false
- B. terraform fmt -list -recursive
- C. terraform fmt -check -recursive
- D. terraform fmt -check

Answer: C

NEW QUESTION 170

What task does the terraform import command perform?

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

Answer: B

NEW QUESTION 174

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 176

What is the provider for this resource?

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

Answer: D

NEW QUESTION 181

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 183

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 188

You have deployed a new webapp with a public IP address on a cloud provider. However, you did not create any outputs for your code. What is the best method to quickly find the IP address of the resource you deployed?

- A. In a new folder, use the terraform_remote_state data source to load in the state file, then write an output for each resource that you find the state file
- B. Run terraform state list to find the name of the resource, then terraform state show to find the attributes including public IP address
- C. Run terraform output ip_address to view the result
- D. Run terraform destroy then terraform apply and look for the IP address in stdout

Answer: B

NEW QUESTION 189

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 190

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 192

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 194

You are creating a reusable Terraform configuration and want to include an optional billing_dept tag so your Finance team can track team-specific spending on resources. Which of the following billing_dept variable declarations will achieve this?

- A. variable "billing_dept" { type = default}
- B. variable "billing_dept" { default = }
- C. variable "billing_dept" { type = optional(string)}
- D. variable "billing_dept" { optional = true}

Answer: C

NEW QUESTION 196

Which of these statements about HCP Terraform/Terraform Cloud workspaces is false?

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

Answer: D

NEW QUESTION 201

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 206

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 207

You can configure Terraform to log to a file using the `TF_LOG` environment variable.

- A. True
- B. False

Answer: A

NEW QUESTION 209

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

- A. True
- B. False

Answer: B

NEW QUESTION 213

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 215

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 219

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 224

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 228

You have multiple team members collaborating on infrastructure as code (IaC) using Terraform, and want to apply formatting standards for readability.

How can you format Terraform HCL (HashiCorp Configuration Language) code according to standard Terraform style convention?

- A. Run the terraform fmt command during the code linting phase of your CI/CD process Most Voted
- B. Designate one person in each team to review and format everyone's code
- C. Manually apply two spaces indentation and align equal sign "=" characters in every Terraform file (*.tf)
- D. Write a shell script to transform Terraform files using tools such as AWK, Python, and sed

Answer: A

NEW QUESTION 230

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 231

Define the purpose of state in Terraform.

- A. State maps real world resources to your configuration and keeps track of metadata
- B. State lets you enforce resource configurations that relate to compliance policies
- C. State stores variables and lets you quickly reuse existing code
- D. State codifies the dependencies of related resources

Answer: A

NEW QUESTION 232

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 234

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

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

- A. True
- B. False

Answer: B

NEW QUESTION 235

Where in your Terraform configuration do you specify a state backend?

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

Answer: C

NEW QUESTION 238

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

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

Answer: D

NEW QUESTION 240

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 243

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 247

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

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

Answer: BC

NEW QUESTION 249

Which of these actions are forbidden when the Terraform state file is locked? (Pick the 3 correct responses)

- A. terraform apply
- B. terraform state list
- C. terraform destroy
- D. terraform fmt

Answer: ABC

NEW QUESTION 254

How can you trigger a run in a Terraform Cloud workspace that is connected to a Version Control System (VCS) repository?

- A. Only Terraform Cloud organization owners can set workspace variables on VCS connected workspaces
- B. Commit a change to the VCS working directory and branch that the Terraform Cloud workspace is connected to
- C. Only Terraform Cloud organization owners can approve plans in VCS connected workspaces
- D. Only members of a VCS organization can open a pull request against repositories that are connected to Terraform Cloud workspaces

Answer: B

NEW QUESTION 257

Terraform variables and outputs that set the description argument will store that description in the state file.

- A. True
- B. False

Answer: B

NEW QUESTION 260

Which of the following arguments are required when declaring a Terraform output?

- A. value
- B. description
- C. default
- D. sensitive

Answer: A

NEW QUESTION 262

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 263

What does the default "local" Terraform backend store?

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

Answer: B

NEW QUESTION 268

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 272

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 274

Which of these are secure options for storing secrets for connecting to a Terraform remote backend? Choose two correct answers.

- A. A variable file
- B. Defined in Environment variables
- C. Inside the backend block within the Terraform configuration
- D. Defined in a connection configuration outside of Terraform

Answer: BD

NEW QUESTION 275

HashiCorp Configuration Language (HCL) supports user-defined functions.

- A. True
- B. False

Answer: B

NEW QUESTION 278

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 282

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

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

Answer: D

NEW QUESTION 283

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 288

FILL IN THE BLANK

What is the name of the default file where Terraform stores the state?

Type your answer in the field provided. The text field is not case-sensitive and all variations of the correct answer are accepted.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Terraform.tfstate

NEW QUESTION 291

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 294

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

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

Answer: B

NEW QUESTION 299

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 run first?

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

Answer: B

NEW QUESTION 301

terraform validate confirms the syntax of Terraform files.

- A. True
- B. False

Answer: A

NEW QUESTION 304

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 307

What does this code do?

```
terraform { required_providers { aws = ">= 3.0" } }
```

- A. Requires any version of the AWS provider $> = 3.0$ and < 4.0
- B. Requires any version of the AWS provider $> = 3.0$
- C. Requires any version of the AWS provider $> = 3.0$ major releases
- D. like 4.1
- E. Requires any version of the AWS provider > 3.0

Answer: A

NEW QUESTION 310

Exhibit:

```
provider "aws" { region = "us-east-1" } provider "aws" { region = "us-west-2" }
```

You need to deploy resources into two different AWS regions in the same Terraform configuration using the provider blocks shown in the exhibit. What do you need to add to the provider configuration to deploy a resource to the us-west-2 AWS region?

- A. Add an alias to the us-west-2 provider (for example, alias = "west") and set provider = aws.west on resources that should use us-west-2.
- B. Rename the provider block to provider "aws" "west" { region = "us-west-2" }.
- C. Create a new provider named provider "aws_west" { region = "us-west-2" }.
- D. Nothin
- E. Terraform will automatically decide which provider to use for each resource.

Answer: A

NEW QUESTION 312

Which two steps are required to provision new infrastructure in the Terraform workflow? (Pick the 2 correct responses below.)

- A. Import
- B. Apply
- C. Validate
- D. Plan
- E. Init

Answer: BD

NEW QUESTION 315

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 319

A terraform apply can not infrastructure.

- A. change
- B. destroy
- C. provision
- D. import

Answer: D

NEW QUESTION 323

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 325

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 328

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 331

Which of the following module source paths does not specify a remote module?

- A. Source = ??module/consul????
- B. Source = ???github.com/crop/example????
- C. Source = ???git@github.com:hasicrop/example.git????
- D. Source = ???hasicrop/consul/aws????

Answer: A

NEW QUESTION 333

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

- A. True
- B. False

Answer: A

NEW QUESTION 337

What does terraform import do?

- A. Imports existing resources into the state file
- B. Imports all infrastructure from a given cloud provider
- C. Imports a new Terraform module
- D. Imports clean copies of tainted resources
- E. None of the above

Answer: A

NEW QUESTION 341

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 343

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 344

Your team often uses API calls to create and manage cloud infrastructure. In what ways does Terraform differ from conventional infrastructure management approaches?

- A. Terraform describes infrastructure with version-controlled, repeatable configurations that specify the desired state.
- B. Terraform is merely a wrapper for cloud provider APIs, so there is little to no difference in calling the API directly.
- C. Terraform replaces cloud provider APIs with its own protocols, enabling automated deployments.
- D. Terraform enforces infrastructure through imperative scripts to ensure tasks are completed in the proper order.

Answer: A

NEW QUESTION 347

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 349

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 module
- 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 352

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 353

In a 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: B

NEW QUESTION 356

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 357

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

- A. True
- B. False

Answer: B

NEW QUESTION 360

When you use a remote backend that needs authentication, HashiCorp recommends that you:

- A. Write the authentication credentials in the Terraform configuration files
- B. Keep the Terraform configuration files in a secret store
- C. Push your Terraform configuration to an encrypted git repository
- D. Use partial configuration to load the authentication credentials outside of the Terraform code

Answer: D

NEW QUESTION 365

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 367

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 368

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 373

_____ backends support state locking.

- A. All
- B. No
- C. Some
- D. Only local

Answer: C

NEW QUESTION 375

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 380

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 .destroy

Answer: CD

NEW QUESTION 383

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 385

You want to bring an existing database under Terraform management. What information is required to create a new import block for the database? Pick the two correct responses below.

- A. The destination resource address of the block that will manage the database.
- B. The path to the .tf file that contains the database resource block.
- C. The ID associated with the current database on the cloud provider.
- D. The database platform and version that the existing resource is running.
- E. The connection string that Terraform will use to connect and manage the database.

Answer: AC

NEW QUESTION 389

Which are benefits of migrating from a local state backend to a remote backend? (Pick the 2 correct responses below.)

- A. Guarantees that configuration drift cannot occur for the managed infrastructure.
- B. Eliminates the need to manage credentials when deploying infrastructure to multiple cloud providers.
- C. Faster plan and apply execution because the state is cached locally on the cloud provider.
- D. State locking that allows multiple team members to safely work on the same infrastructure.
- E. The ability to enable server-side encryption at rest.

Answer: DE

NEW QUESTION 392

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

- A. True
- B. False

Answer: A

NEW QUESTION 397

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 400

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

- A. Automated infrastructure deployment visualization

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

Answer: CD

NEW QUESTION 403

If a module declares a variable without a default value, you must pass the value of the variable within the module block when you call the module in your configuration.

- A. True
- B. False

Answer: A

NEW QUESTION 408

What is a key benefit of the Terraform state file?

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

Answer: B

NEW QUESTION 409

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 410

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 411

You must use different Terraform commands depending on the cloud provider you use.

- A. True
- B. False

Answer: B

NEW QUESTION 415

The HCP Terraform private registry keeps the module configurations confidential within your organization.

- A. True
- B. False

Answer: A

NEW QUESTION 420

terraform init retrieves and caches the configuration for all remote modules.

- A. True
- B. False

Answer: B

NEW QUESTION 422

A developer on your team is going to leaf down an existing deployment managed by Terraform and deploy a new one. However, there is a server resource named aws instant.ubuntu[l] they would like to keep. What command should they use to tell Terraform to stop managing that specific resource?

- A. Terraform plan rm:aws_instance.ubuntu[1]
- B. Terraform state rm:aws_instance.ubuntu[1]
- C. Terraform apply rm:aws_instance.ubuntu[1]
- D. Terraform destory rm:aws_instance.ubuntu[1]

Answer: B

NEW QUESTION 423

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