

HashiCorp

Exam Questions Terraform-Associate-004

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



NEW QUESTION 1

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
- E. providers
- F. None of the above

Answer: F

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

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 4

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

- A. True
- B. False

Answer: A

NEW QUESTION 5

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 6

Exhibit:

```
variable "sizes" { type = list(string)
description = "Valid server sizes" default = ["small", "medium", "large"]
}
```

A variable declaration is shown in the exhibit. Which is the correct way to get the value of medium from this variable?

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

Answer: B

NEW QUESTION 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

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 9

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 10

Which Terraform command checks that your configuration syntax is correct?

- A. terraform validate
- B. terraform init
- C. terraform show
- D. terraform fmt

Answer: A

NEW QUESTION 10

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

- A. True
- B. False

Answer: A

NEW QUESTION 12

What does state locking accomplish?

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

Answer: B

NEW QUESTION 13

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

- A. True
- B. False

Answer: B

NEW QUESTION 18

What are some benefits of using Sentinel with Terraform Cloud/Terraform Cloud? Choose three correct answers.

- A. You can restrict specific resource configurations, such as disallowing the use of CIDR=0.0.0.0/0.
- B. You can check out and check in cloud access keys
- C. Sentinel Policies can be written in HashiCorp Configuration Language (HCL)
- D. Policy-as-code can enforce security best practices
- E. You can enforce a list of approved AWS AMLs

Answer: ADE

NEW QUESTION 19

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

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

Answer: ABC

NEW QUESTION 23

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

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 32

Which type of block fetches or computes information for use elsewhere in a Terraform configuration?

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

Answer: A

NEW QUESTION 37

Your team is collaborating on infrastructure using Terraform and wants to format code to follow Terraform language style conventions. How can you update your code to meet these requirements?

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

Answer: A

NEW QUESTION 39

Terraform requires the Go runtime as a prerequisite for installation.

- A. True
- B. False

Answer: B

NEW QUESTION 40

Which of these statements about Terraform Cloud workspaces is false?

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

Answer: B

NEW QUESTION 45

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 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 52

You've updated your Terraform configuration, and you need to preview the proposed changes to your infrastructure. Which command should you run?

- A. terraform show
- B. terraform plan
- C. terraform validate
- D. terraform get

Answer: B

NEW QUESTION 54

Exhibit:

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

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

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

Answer: C

NEW QUESTION 57

The terraform output command shows outputs from child modules.

- A. True
- B. False

Answer: B

NEW QUESTION 60

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

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

Answer: B

NEW QUESTION 63

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 65

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 66

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 68

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 69

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 70

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 72

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

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

Answer: B

NEW QUESTION 74

The -refresh-only parameter will update your state file when used with terraform plan.

- A. True
- B. False

Answer: B

NEW QUESTION 76

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 77

How does the Terraform cloud integration differ from other state backends such as S3, Consul,etc?

- A. It can execute Terraform runs on dedicated infrastructure in Terraform Cloud
- B. It doesn't show the output of a terraform apply locally
- C. It is only arable lo paying customers
- D. All of the above

Answer: A

NEW QUESTION 78

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

- A. True
- B. False

Answer: A

NEW QUESTION 81

Which of the following command would be use 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 83

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

- A. True
- B. False

Answer: B

NEW QUESTION 86

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 89

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

- A. True
- B. False

Answer: A

NEW QUESTION 90

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 95

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 96

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 98

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 102

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 105

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

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

Answer: C

NEW QUESTION 110

You are creating a Terraform configuration which needs to make use of multiple providers, one for AWS and one for Datadog. Which of the following provider blocks would allow you to do this?

A)

```
terraform {  
  provider "aws" {  
    profile = var.aws_profile  
    region  = var.aws_region  
  }  
  
  provider "datadog" {  
    api_key = var.datadog_api_key  
    app_key = var.datadog_app_key  
  }  
}
```

B)

```
provider "aws" {  
  profile = var.aws_profile  
  region  = var.aws_region  
}  
  
provider "datadog" {  
  api_key = var.datadog_api_key  
  app_key = var.datadog_app_key  
}
```

C)

```
provider "aws" {  
  profile = var.aws_profile  
  region  = var.aws_region  
}  
  
provider "datadog" {  
  api_key = var.datadog_api_key  
  app_key = var.datadog_app_key  
}
```

D)

```
provider {  
  "aws" {  
    profile = var.aws_profile  
    region  = var.aws_region  
  }  
  
  "datadog" {  
    api_key = var.datadog_api_key  
    app_key = var.datadog_app_key  
  }  
}
```

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

Answer: C

NEW QUESTION 114

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

Answer: BE

NEW QUESTION 116

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 120

Variables declared within a module are accessible outside of the module.

- A. True
- B. False

Answer: B

NEW QUESTION 122

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 125

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 129

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 130

You should run terraform fmt to rewrite all Terraform configurations within the current working directory to conform to Terraform-style conventions.

- A. True
- B. False

Answer: A

NEW QUESTION 132

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 133

What is the provider for this resource?

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

Answer: D

NEW QUESTION 134

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 138

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 141

If a module declares a variable with a default, that variable must also be defined within the module.

- A. True
- B. False

Answer: B

NEW QUESTION 142

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 143

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 148

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 153

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 158

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 163

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 168

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

- A. True
- B. False

Answer: B

NEW QUESTION 170

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

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

Answer: B

NEW QUESTION 171

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 176

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

- A. True
- B. False

Answer: A

NEW QUESTION 179

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 182

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 184

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 187

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 189

Which of these are features of HCP Terraform/Terraform Cloud? (Pick the 2 correct responses)

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

Answer: BD

NEW QUESTION 193

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 194

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

- A. True
- B. False

Answer: B

NEW QUESTION 196

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 201

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 204

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 209

Which command doesnotcause Terraform to refresh its state?

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

Answer: A

NEW QUESTION 212

Which command add existing resources into Terraform state?

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

Answer: D

NEW QUESTION 214

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

- A. True
- B. False

Answer: B

NEW QUESTION 218

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 223

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

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

Answer: D

NEW QUESTION 226

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 230

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 234

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 236

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 237

Which of the following commands would you use to access all of the attributes and details of a resource managed by Terraform?

- A. terraform state list ??provider_type.name??
- B. terraform state show ??provider_type.name??
- C. terraform get ??provider_type.name??
- D. terraform state list

Answer: B

NEW QUESTION 239

When does Sentinel enforce policy logic during a Terraform Cloud run?

- A. Before the plan phase
- B. During the plan phase
- C. Before the apply phase
- D. After the apply phase

Answer: C

NEW QUESTION 244

A module block is shown in the Exhibit space of this page. When you use a module block to reference a module from the Terraform Registry such as the one in the example, how do you specify version 1.0.0 of the module?

- A. Append ?ref=v1.0.0 argument to the source path.
- B. You cannot
- C. Modules stored on the public Terraform Registry do not support versioning.
- D. Add a version = "1.0.0" attribute to the module block.
- E. Nothing
- F. Modules stored on the public Terraform module Registry always default to version 1.0.0.

Answer: C

NEW QUESTION 248

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

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

Answer: A

NEW QUESTION 249

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 253

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 258

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 262

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 267

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 269

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 273

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 275

terraform validate confirms that your infrastructure matches the Terraform state file.

- A. True
- B. False

Answer: B

NEW QUESTION 280

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 283

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 284

`terraform destroy` is the only way to remove infrastructure.

- A. True
- B. False

Answer: B

NEW QUESTION 286

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 288

When should you run `terraform init`?

- A. Every time you run `terraform apply`
- B. Before you start coding a new Terraform project
- C. After you run `terraform plan` for the time in a new terraform project and before you run `terraform apply`
- D. After you start coding a new terraform project and before you run `terraform plan` for the first time.

Answer: D

NEW QUESTION 292

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 297

When do changes invoked by `terraform apply` take effect?

- A. After Terraform has updated the state file
- B. Once the resource provider has fulfilled the request
- C. Immediately

D. None of the above are correct

Answer: B

NEW QUESTION 300

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 305

A terraform apply can not infrastructure.

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

Answer: D

NEW QUESTION 306

When you include a module block in your configuration that references a module from the Terraform Registry, the "version" attribute is required.

- A. True
- B. False

Answer: B

NEW QUESTION 309

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

- A. True
- B. False

Answer: B

NEW QUESTION 310

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 314

If one of your modules uses a local value, you can expose that value to callers of the module by defining a Terraform output in the module??s configuration.

- A. True
- B. False

Answer: A

NEW QUESTION 318

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 320

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

- A. True
- B. False

Answer: B

NEW QUESTION 325

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

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

Answer: C

NEW QUESTION 326

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

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

Answer: A

NEW QUESTION 327

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 329

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

- A. True
- B. False

Answer: A

NEW QUESTION 331

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

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

Answer: ABD

NEW QUESTION 336

While attempting to deploy resources into your cloud provider using Terraform, you begin to see some odd behavior and experience slow responses. In order to troubleshoot you decide to turn on Terraform debugging. Which environment variables must be configured to make Terraform's logging more verbose?

- A. TF_LOG_PAIRH
- B. TF_LOG
- C. TF_VAR_log_path
- D. TF_VAR_log_level

Answer: B

NEW QUESTION 338

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 339

terraform init creates an example main.tf file in the current directory.

- A. True
- B. False

Answer: B

NEW QUESTION 343

Exhibit:
data "vsphere_datacenter" "dc" {}
resource "vsphere_folder" "parent" {
 path = "Production" type = "vm"
 datacenter_id =
}
You want to pass the id of the vsphere_datacenter data source to the datacenter_id argument of the vsphere_folder resource. Which reference would you use?

- A. data.vsphere_datacenter.de.id
- B. vsphere_datacenter.dc.id
- C. data.vsphere_datacenter.dc
- D. data.de.id

Answer: A

NEW QUESTION 346

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

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

Answer: A

NEW QUESTION 349

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 352

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 361

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 add a new provider to your configuration and immediately run terraform apply in the CD using the local backend. Why does the apply fail?

- A. The Terraform CD needs you to log into Terraform Cloud first
- B. Terraform requires you to manually run terraform plan first
- C. Terraform needs to install the necessary plugins first

D. Terraform needs you to format your code according to best practices first

Answer: C

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 370

Terraform installs its providers during which phase?

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

Answer: B

NEW QUESTION 373

Your DevOps team is currently using the local backend for your Terraform configuration. You would like to move to a remote backend to store the state file in a central location. Which of the following backends would not work?

- A. Artifactory
- B. Amazon S3
- C. Terraform Cloud
- D. Git

Answer: D

NEW QUESTION 378

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 381

Terraform configuration can only import modules from the public registry.

- A. True
- B. False

Answer: B

NEW QUESTION 382

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 384

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

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

- A. True
- B. False

Answer: A

NEW QUESTION 393

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 397

Exhibit:

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

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

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

Answer: A

NEW QUESTION 400

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

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

Answer: D

NEW QUESTION 403

A Terraform output that sets the "sensitive" argument to true will not store that value in the state file.

- A. True
- B. False

Answer: B

NEW QUESTION 408

terraform validate reports syntax check errors for which of the following?

- A. Code contains tabs for indentation instead of spaces
- B. There is a missing value for a variable
- C. The state file does not match the current infrastructure
- D. None of the above

Answer: D

NEW QUESTION 412

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

- A. True
- B. False

Answer: B

NEW QUESTION 413

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 417

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 421

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 425

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

- A. True
- B. False

Answer: A

NEW QUESTION 426

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

- A. True
- B. False

Answer: B

NEW QUESTION 427

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_instance.ubuntu[] 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 428

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