

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 providers
- E. providers
- F. None of the above

Answer: F

NEW QUESTION 2

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 3

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 4

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 5

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 6

What does state locking accomplish?

- A. Prevent accidental 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 7

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 8

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

- A. True
- B. False

Answer: B

NEW QUESTION 9

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 AMIs

Answer: ADE

NEW QUESTION 10

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 10

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 13

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 14

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

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

Answer: B

NEW QUESTION 17

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 19

Outside of the required_providers block, Terraform configurations always refer to providers by their local names.

- A. True
- B. False

Answer: B

NEW QUESTION 20

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

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

Answer: B

NEW QUESTION 22

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 25

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

- A. True
- B. False

Answer: B

NEW QUESTION 26

You are responsible for a set of infrastructure that is managed by two workspaces: example-network and example-compute. The example-compute workspace uses data from output values configured in the example-network workspace and must be deployed afterward. Currently, this is a manual process:

- ? An operator deploys changes to the example-network workspace.
- ? They manually copy the output values from the example-network workspace to input variables configured for the example-compute workspace.
- ? They deploy the example-compute workspace.

Which HCP Terraform features can you use to automate this process?

Pick the two correct responses below.

- A. A health check configured on the example-network workspace to create a plan on the example-compute workspace when HCP Terraform applies changes to it.
- B. A health check configured on the example-compute workspace to create a plan when HCP Terraform applies changes to the example-network workspace.
- C. A tfe_outputs data source configured in the example-compute workspace to automatically load output values from the example-network workspace.
- D. A run trigger configured on the example-network workspace to automatically plan changes to the example-compute workspace after every apply.
- E. A run trigger configured on the example-compute workspace to automatically plan changes after HCP Terraform applies changes to the example-network workspace.

Answer: CE

NEW QUESTION 30

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 34

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 39

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 44

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 49

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 54

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 57

Terraform encrypts sensitive values stored in your state file.

- A. True
- B. False

Answer: B

NEW QUESTION 62

Why does this backend configuration not follow best practices?

```

terraform {
  backend "s3" {
    bucket     = "terraform-state-prod"
    key        = "network/terraform.tfstate"
    region     = "us-east-1"
    access_key = "AKIAIOSFODNN7EXAMPLE"
    secret_key = "wJalrXUtnFEMI/K7MDENG/bPxrF1CYEXAMPLEKEY"
  }

  required_providers {
    aws = {
      source = "hashicorp/aws"
      version = "~> 3.38"
    }
  }

  required_version = ">= 0.15"
}

```

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

Answer: C

NEW QUESTION 63

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 67

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 68

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 72

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 75

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

- A. True
- B. False

Answer: B

NEW QUESTION 78

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 79

Which command lets you experiment with terraform expressions?

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

Answer: A

NEW QUESTION 81

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

- A. True
- B. False

Answer: A

NEW QUESTION 84

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 85

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 89

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 94

Your security team scanned some Terraform workspaces and found secrets stored in plaintext in state files. How can you protect that data?

- A. Edit your state file to scrub out the sensitive data
- B. Always store your secrets in a secrets.tfvars file

- C. Delete the state file every time you run Terraform
- D. Store the state in an encrypted backend

Answer: D

NEW QUESTION 97

You cannot install third party plugins using terraform init.

- A. True
- B. False

Answer: B

NEW QUESTION 98

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 99

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 104

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 105

Terraform providers are always installed from the Internet.

- A. True
- B. False

Answer: B

NEW QUESTION 110

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 state 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 112

Which method for sharing Terraform configurations fulfills the following criteria:

- * 1. Keeps the configurations confidential within your organization
- * 2. Support Terraform's semantic version constraints
- * 3. Provides a browsable directory

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

Answer: C

NEW QUESTION 117

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

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

Answer: D

NEW QUESTION 119

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

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

Answer: A

NEW QUESTION 120

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 124

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

- A. 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 127

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 129

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 134

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 135

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 138

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 139

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 144

A child module can always access variables declared in its parent module.

- A. True
- B. False

Answer: B

NEW QUESTION 149

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

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

Answer: CDE

NEW QUESTION 152

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 155

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 158

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 161

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 166

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 169

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 171

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 176

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 179

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 182

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 186

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

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

Answer: B

NEW QUESTION 190

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 192

You must initialize your working directory before running terraform validate.

- A. True
- B. False

Answer: A

NEW QUESTION 193

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

- A. True
- B. False

Answer: B

NEW QUESTION 196

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[1].name
- D. aws_instance.web[1]
- E. element(aws_instance.web, 2)

Answer: C

NEW QUESTION 200

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

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

Answer: B

NEW QUESTION 201

Exhibit:
Error: Saved plan is stale
The given plan file can no longer be applied because the state was changed by another operation after the plan was created.
You have a saved execution plan containing desired changes for infrastructure managed by Terraform. After running terraform apply my.tfplan, you receive the error shown. How can you apply the desired changes? (Pick the 2 correct responses below.)

- A. Generate a new execution plan file with terraform plan, and apply the new plan.
- B. Run terraform apply without the saved execution plan.
- C. Force the apply command by adding the flag -lock=false.
- D. Refresh the current state data using the -refresh-only flag.
- E. Update the current plan file using the terraform state push command.

Answer: AB

NEW QUESTION 206

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

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

Answer: B

NEW QUESTION 209

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 212

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 216

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 219

Exhibit:
data "aws_ami" "web" {
 most_recent = true owners = ["self"]
 tags = {
 Name = "web-server"
 }
}

A data source is shown in the exhibit. How do you reference the id attribute of this data source?

- A. aws_ami.web.id
- B. web.id
- C. data.aws_ami.web.id
- D. data.web.id

Answer: C

NEW QUESTION 221

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 224

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 226

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

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

Answer: D

NEW QUESTION 230

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 231

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 235

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 239

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

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

Answer: BC

NEW QUESTION 240

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 244

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 249

Setting the TF_LOG environment variable to DEBUG causes debug messages to be logged into stdout.

- A. True
- B. False

Answer: A

NEW QUESTION 251

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

- A. True
- B. False

Answer: B

NEW QUESTION 252

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 256

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

Which two steps are required to provision new infrastructure in the Terraform workflow? Choose two correct answers.

- A. Plan
- B. Import
- C. Alidate
- D. Init
- E. apply

Answer: DE

NEW QUESTION 258

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 259

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 263

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 264

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 266

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 267

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 270

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

- A. True
- B. False

Answer: B

NEW QUESTION 273

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 278

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 284

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

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

Answer: C

NEW QUESTION 289

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 292

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

- A. True
- B. False

Answer: B

NEW QUESTION 295

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

challenge for this team?

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

Answer: B

NEW QUESTION 296

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

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

Answer: B

NEW QUESTION 297

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

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

Answer: B

NEW QUESTION 299

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

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

Answer: A

NEW QUESTION 303

terraform destroy is the only way to remove infrastructure.

- A. True
- B. False

Answer: B

NEW QUESTION 308

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 310

Exhibit:
resource "kubernetes_namespace" "example" { name = "test" }
A resource block is shown in the exhibit. How would you reference the name attribute of this resource in HCL?

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

Answer: B

NEW QUESTION 311

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 314

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 317

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

- A. True
- B. False

Answer: B

NEW QUESTION 318

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 319

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

- A. servers = num_servers
- B. servers = var(num_servers)
- C. servers = var.num_servers
- D. servers = \${var.num_servers}

Answer: C

NEW QUESTION 323

Terraform providers are part of the Terraform core binary.

- A. True
- B. False

Answer: B

NEW QUESTION 325

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

- A. True
- B. False

Answer: B

NEW QUESTION 329

Terraform variable names are saved in the state file.

- A. True
- B. False

Answer: B

NEW QUESTION 330

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

Which variable type could you use for this input?

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

Answer: B

NEW QUESTION 334

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 337

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 341

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 342

You have a Terraform configuration that defines a single virtual machine with no references to it, You have run terraform apply to create the resource, and then removed the resource definition from your Terraform configuration file. What will happen you run terraform apply in the working directory again?

- A. Terraform will remove the virtual machine from the state file, but the resource will still exist
- B. Nothing
- C. Terraform will error
- D. Terraform will destroy the virtual machine

Answer: D

NEW QUESTION 343

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 344

You use a cloud provider account that is shared with other team members. You previously used Terraform to create a load balancer that listens on port 80. After application changes, you updated the Terraform code to change the port to 443.

You run terraform plan and see that the execution plan shows the port changing from 80 to 443 like you intended and step away to grab some coffee.

In the meantime, another team member manually changes the load balancer port to 443 through the cloud provider console before you get back to your desk.

What will happen when you run terraform apply upon returning to your desk?

- A. Terraform will recreate the load balancer.
- B. Terraform will fail with an error because the state file is no longer accurate.
- C. Terraform will change the load balancer port to 80, and then change it back to 443.
- D. Terraform will not make any changes to the load balancer and will update the state file to reflect the manual change.

Answer: B

NEW QUESTION 346

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 348

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 353

A Terraform local value can reference other Terraform local values.

- A. True
- B. False

Answer: A

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 358

What is modified when executing Terraform inrefresh-only mode?

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

Answer: C

NEW QUESTION 360

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

- A. True
- B. False

Answer: B

NEW QUESTION 361

How is terraform import run?

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

Answer: D

NEW QUESTION 362

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 366

You used Terraform to create an ephemeral development environment in the cloud and are now ready to destroy all the infrastructure described by your Terraform configuration. To be safe, you would like to first see all the infrastructure that Terraform will delete.

Which command should you use to show all the resources that will be deleted? (Pick the 2 correct responses)

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

Answer: AB

NEW QUESTION 371

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 376

Terraform installs its providers during which phase?

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

Answer: B

NEW QUESTION 380

_____ backends support state locking.

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

Answer: C

NEW QUESTION 383

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 385

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

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

Answer: C

NEW QUESTION 388

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

- A. Set
- B. Map

- C. Tuple
- D. list

Answer: B

NEW QUESTION 389

Terraform configuration can only import modules from the public registry.

- A. True
- B. False

Answer: B

NEW QUESTION 394

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 399

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 401

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

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

Answer: B

NEW QUESTION 402

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 405

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

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

Answer: B

NEW QUESTION 409

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 414

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 416

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 421

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

- A. True
- B. False

Answer: B

NEW QUESTION 423

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 427

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 432

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

- A. True
- B. False

Answer: B

NEW QUESTION 435

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

- A. True
- B. False

Answer: A

NEW QUESTION 437

.....

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