



HashiCorp

Exam Questions Terraform-Associate-004

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

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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

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

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 5

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 6

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

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

Answer: D

NEW QUESTION 7

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

- A. True
- B. False

Answer: A

NEW QUESTION 8

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

- A. True
- B. False

Answer: B

NEW QUESTION 9

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

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

Answer: B

NEW QUESTION 10

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 10

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

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

Answer: A

NEW QUESTION 15

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 20

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 21

Which of the following methods, used to provision resources into a public cloud, demonstrates the concept of infrastructure as code?

- A. curl commands manually run from a terminal
- B. A sequence of REST requests you pass to a public cloud API endpoint
- C. A script that contains a series of public cloud CLI commands
- D. A series of commands you enter into a public cloud console

Answer: C

NEW QUESTION 22

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

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

Answer: C

NEW QUESTION 27

How does the use of Infrastructure as Code (IaC) enhance the reliability of your infrastructure?
Pick the two correct responses below.

- A. Proposed changes can be reviewed before being applied.
- B. Infrastructure is automatically scaled to meet demand.
- C. Incorrect configurations cannot be deployed.
- D. Updates are deployed with zero downtime.
- E. Configuration drift is reduced with declarative definitions.

Answer: AE

NEW QUESTION 30

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

Error:

yaml

CopyEdit

Error loading state: AccessDenied: Access Denied

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

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

Answer: B

NEW QUESTION 32

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

- A. True
- B. False

Answer: B

NEW QUESTION 37

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 39

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 40

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

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

Answer: D

NEW QUESTION 42

Terraform requires the Go runtime as a prerequisite for installation.

- A. True
- B. False

Answer: B

NEW QUESTION 43

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 47

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 52

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 54

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 58

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

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

Answer: D

NEW QUESTION 62

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 66

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

- A. source - "github.com/hashicorp/examplePref-ul.0.8M"
- B. source = "./module?version=v1.6.0"
- C. source - "hashicorp/consul/aws"
- D. source - "./module"

Answer: B

NEW QUESTION 70

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 71

Module variable assignments are inherited from the parent module and you do not need to explicitly set them.

- A. True
- B. False

Answer: B

NEW QUESTION 76

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 81

Terraform encrypts sensitive values stored in your state file.

- A. True
- B. False

Answer: B

NEW QUESTION 84

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 86

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 90

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 91

Only the user that generated a plan may apply it.

- A. True
- B. False

Answer: B

NEW QUESTION 95

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 96

You want to know from which paths Terraform is loading providers referenced in your Terraform configuration (* 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 97

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

- A. True
- B. False

Answer: B

NEW QUESTION 100

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 104

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

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

Answer: A

NEW QUESTION 109

When should you use the force-unlock command?

- A. You have a high priority change
- B. Automatic unlocking failed
- C. apply failed due to a state lock
- D. You see a status message that you cannot acquire the lock

Answer: B

NEW QUESTION 113

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 available to paying customers
- D. All of the above

Answer: A

NEW QUESTION 115

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

- A. True
- B. False

Answer: B

NEW QUESTION 120

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 121

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 123

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 124

Terraform providers are always installed from the Internet.

- A. True
- B. False

Answer: B

NEW QUESTION 127

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

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

Answer: C

NEW QUESTION 129

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 134

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 138

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 139

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 141

In Terraform HCL, an object type of `object({name=string, age=number})` would match this value.

A.

```
{  
  name = "John"  
  age = fifty two  
}
```

B.

```
{  
  name = "John"  
  age = 52  
}
```

C.

```
{  
  name = John  
  age = fifty two  
}
```

D.

```
{  
  name = John  
  age = 52  
}
```

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

Answer: B

NEW QUESTION 144

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 146

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 149

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 154

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 159

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 164

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

- A. True
- B. False

Answer: B

NEW QUESTION 166

When using a remote backend or terraform Cloud integration, where does Terraform save resource state?

- A. In an environment variable
- B. On the disk
- C. In the remote backend or Terraform Cloud
- D. In memory

Answer: C

NEW QUESTION 167

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 169

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 170

Which of these is true about Terraform's plugin-based architecture?

- A. Terraform can only source providers from the internet
- B. Every provider in a configuration has its own state file for its resources
- C. You can create a provider for your API if none exists
- D. All providers are part of the Terraform core binary

Answer: C

NEW QUESTION 173

You have declared a variable called var.list which is a list of objects that all have an attribute id . Which options will produce a list of the IDs? Choose two correct answers.

- A. [var.list [*] , id]
- B. [for o in var.list : o.id]
- C. var.list[*].id
- D. { for o in var.list : o => o.id }

Answer: BC

NEW QUESTION 175

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 176

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 179

terraform plan updates your state file.

- A. True
- B. False

Answer: B

NEW QUESTION 180

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 184

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

- A. True

B. False

Answer: B

NEW QUESTION 187

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

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

Answer: AD

NEW QUESTION 191

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

- A. True
- B. False

Answer: A

NEW QUESTION 195

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 199

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 200

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

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

Answer: A

NEW QUESTION 202

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 204

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 209

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 214

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 216

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

- A. True
- B. False

Answer: B

NEW QUESTION 221

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

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

Answer: AD

NEW QUESTION 224

Where does the Terraform local backend store its state?

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

Answer: C

NEW QUESTION 225

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 230

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

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

Answer: BC

NEW QUESTION 233

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

- A. True
- B. False

Answer: A

NEW QUESTION 237

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

- A. True
- B. False

Answer: B

NEW QUESTION 240

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 242

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 246

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 248

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 252

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

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

Answer: A

NEW QUESTION 253

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 256

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 260

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

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

- A. True
- B. False

Answer: B

NEW QUESTION 265

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 270

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 271

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 272

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 277

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 280

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

- A. `terraform destroy`
- B. All of these will trigger terraform destroy
- C. `terraform plan -destroy`
- D. `terraform destroy -auto-approve`

Answer: C

NEW QUESTION 285

Which of these actions will prevent two Terraform runs from changing the same state file at the same time?

- A. Refresh the state after running Terraform
- B. Delete the state before running Terraform
- C. Configure state locking for your state backend
- D. Run Terraform with `parallelism` set to 1

Answer: B

NEW QUESTION 289

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 291

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 293

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

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

Answer: B

NEW QUESTION 296

terraform validate confirms the syntax of Terraform files.

- A. True
- B. False

Answer: A

NEW QUESTION 301

terraform destroy is the only way to remove infrastructure.

- A. True
- B. False

Answer: B

NEW QUESTION 304

What does this code do?

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

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

Answer: A

NEW QUESTION 309

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 first 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 314

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 316

A terraform apply can not infrastructure.

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

Answer: D

NEW QUESTION 318

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

- A. True
- B. False

Answer: B

NEW QUESTION 320

You've used Terraform to deploy a virtual machine and a database. You want to replace this virtual machine instance with an identical one without affecting the database. What is the best way to achieve this using Terraform?

- A. Use the terraform state rm command to remove the VM from state file
- B. Use the terraform taint command targeting the VMs then run terraform plan and terraform apply
- C. Use the terraform apply command targeting the VM resources only
- D. Delete the Terraform VM resources from your Terraform code then run terraform plan and terraform apply

Answer: B

NEW QUESTION 322

Terraform providers are part of the Terraform core binary.

- A. True
- B. False

Answer: B

NEW QUESTION 323

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 is not a valid Terraform collection type?

- A. Tree
- B. Map
- C. List
- D. set

Answer: A

NEW QUESTION 327

Terraform variable names are saved in the state file.

- A. True
- B. False

Answer: B

NEW QUESTION 329

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

- A. True
- B. False

Answer: B

NEW QUESTION 330

When you initialize Terraform, where does it cache modules from the public Terraform Registry?

- A. In the /tmp directory.
- B. In the .terraform sub-directory.
- C. In memory.
- D. They are not cached.

Answer: B

NEW QUESTION 333

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 334

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

- A. True
- B. False

Answer: A

NEW QUESTION 339

Which method for sharing Terraform modules fulfills the following criteria: Keeps the module configurations confidential within your organization. Supports Terraform's semantic version constraints.
Provides a browsable directory of your modules.

- A. A Git repository containing your modules.
- B. Public Terraform module registry.
- C. A subfolder within your workspace.
- D. HCP Terraform/Terraform Cloud private registry.

Answer: D

NEW QUESTION 344

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 348

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

- A. Alias
- B. Id
- C. Depends_on
- D. name

Answer: A

NEW QUESTION 350

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 353

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 355

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

- A. True
- B. False

Answer: B

NEW QUESTION 357

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 362

How would you output returned values from a child module in the Terraform CLI output?

- A. Declare the output in the root configuration
- B. Declare the output in the child module
- C. Declare the output in both the root and child module
- D. None of the above

Answer: C

NEW QUESTION 366

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 370

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 375

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 379

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 382

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 383

A senior admin accidentally deleted some of your cloud instances. What will Terraform do when you run terraform apply?

- A. Tear down the entire workspace's infrastructure and rebuild it.
- B. Build a completely brand new set of infrastructure.
- C. Rebuild only the instances that were deleted.
- D. Stop and generate an error message about the missing instances.

Answer: C

NEW QUESTION 384

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 387

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

Answer: AB

NEW QUESTION 392

_____ backends support state locking.

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

Answer: C

NEW QUESTION 397

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 400

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

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

Answer: B

NEW QUESTION 405

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 410

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 413

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 417

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

- A. True
- B. False

Answer: A

NEW QUESTION 420

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

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

Answer: B

NEW QUESTION 422

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

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

Answer: CD

NEW QUESTION 425

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 427

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 428

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 433

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

- A. True
- B. False

Answer: B

NEW QUESTION 435

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 438

You've enabled DEBUG-level logging for Terraform, and you'd like to send the log data to a file. Which action should you take?

- A. Set the TF_LOG_PATH environment variable.
- B. Update the Terraform CLI configuration file.
- C. Add a path argument to the terraform block.
- D. Run the terraform output command.

Answer: A

NEW QUESTION 440

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

- A. True
- B. False

Answer: A

NEW QUESTION 444

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

- A. True
- B. False

Answer: B

NEW QUESTION 446

.....

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