

HashiCorp

Exam Questions Terraform-Associate-003

HashiCorp Certified: Terraform Associate (003)



NEW QUESTION 1

How would you reference the volume IDs associated with the ebs_block_device blocks in this configuration?

```
resource "aws_instance" "example" {  
  ami = "ami-abc123"  
  instance_type = "t2.micro"  
  
  ebs_block_device {  
    device_name = "sda2"  
    volume_size = 16  
  }  
  
  ebs_block_device {  
    device_name = "sda3"  
    volume_size = 20  
  }  
}
```

- A. aws_instance.example.ebs_block_device[sda2,sda3].volume_id
- B. aws_Instance.example.ebs_block_device.[*].volume_id
- C. aws_Instance.example.ebs_block_device.volume_ids
- D. aws_instance.example-ebs_block_device.*.volume_id

Answer: D

Explanation:

This is the correct way to reference the volume IDs associated with the ebs_block_device blocks in this configuration, using the splat expression syntax. The other options are either invalid or incomplete.

NEW QUESTION 2

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

Explanation:

The terraform taint command marks a resource as tainted, which means it will be destroyed and recreated on the next apply. This way, you can replace the VM instance without affecting the database or other resources. References = [Terraform Taint]

NEW QUESTION 3

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

Explanation:

This is how Terraform determines dependencies between resources, by using the references between them in the configuration files and other factors that affect the order of operations.

NEW QUESTION 4

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 releas
- D. like 4.1
- E. Requires any version of the AWS provider > 3.0

Answer: A

Explanation:

This is what this code does, by using the pessimistic constraint operator (~>), which specifies an acceptable range of versions for a provider or module.

NEW QUESTION 5

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

Explanation:

To make Terraform's logging more verbose for troubleshooting purposes, you must configure the TF_LOG environment variable. This variable controls the level of logging and can be set to TRACE, DEBUG, INFO, WARN, or ERROR, with TRACE providing the most verbose output. References = Detailed debugging instructions and the use of environment variables like TF_LOG for increasing verbosity are part of Terraform's standard debugging practices

NEW QUESTION 6

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

- A. True
- B. False

Answer: B

Explanation:

terraform validate does not confirm that your infrastructure matches the Terraform state file. It only checks whether the configuration files in a directory are syntactically valid and internally consistent³. To confirm that your infrastructure matches the Terraform state file, you need to use terraform plan or terraform apply with the -refresh- only option.

NEW QUESTION 7

You cannot install third party plugins using terraform init.

- A. True
- B. False

Answer: B

Explanation:

You can install third party plugins using terraform init, as long as you specify the plugin directory in your configuration or as a command-line argument. You can also use the terraform providers mirror command to create a local mirror of providers from any source.

NEW QUESTION 8

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

- A. True
- B. False

Answer: B

Explanation:

A module can declare a variable with a default value without requiring the caller to define it. This allows the module to provide a sensible default behavior that can be customized by the caller if needed. References = [Module Variables]

NEW QUESTION 9

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

Explanation:

You should run terraform fmt to rewrite all Terraform configurations within the current working directory to conform to Terraform-style conventions. This command applies a subset of the Terraform language style conventions, along with other minor adjustments for readability. It is recommended to use this command to ensure consistency of style across different Terraform codebases. The command is optional, opinionated, and has no customization options, but it can help you and your team understand the code more quickly and easily. References = : Command: fmt : Using Terraform fmt Command to Format Your Terraform Code

NEW QUESTION 10

As a developer, you want to ensure your plugins are up to date with the latest versions. Which Terraform command should you use?

- A. terraform refresh -upgrade
- B. terraform apply -upgrade
- C. terraform init -upgrade
- D. terraform providers -upgrade

Answer: C

Explanation:

This command will upgrade the plugins to the latest acceptable version within the version constraints specified in the configuration. The other commands do not have an - upgrade option.

NEW QUESTION 10

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

- A. True
- B. False

Answer: B

Explanation:

The Terraform binary version and provider versions do not have to match each other in a single configuration. Terraform allows you to specify provider version constraints in the configuration's terraform block, which can be different from the Terraform binary version¹. Terraform will use the newest version of the provider that meets the configuration's version constraints². You can also use the dependency lock file to ensure Terraform is using the correct provider version³.

References =

- 1: Providers - Configuration Language | Terraform | HashiCorp Developer
- 2: Multiple provider versions with Terraform - Stack Overflow
- 3: Lock and upgrade provider versions | Terraform - HashiCorp Developer

NEW QUESTION 12

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

Explanation:

Running terraform fmt without any flags in a directory with Terraform configuration files will not check the formatting of those files without changing their contents, but will actually rewrite them to a canonical format and style. If you want to check the formatting without making changes, you need to use the -check flag.

NEW QUESTION 14

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

Explanation:

The execution plan for terraform apply will not be the same as the one you ran locally with terraform plan, if your teammate manually modified the infrastructure component you are working on. This is because Terraform will refresh the state file before applying any changes, and will detect any differences between the state and the real resources.

NEW QUESTION 16

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

Explanation:

Terraform validate reports configuration consistency errors, such as declaring a resource identifier more than once. This means that the same resource type and name combination is used for multiple resource blocks, which is not allowed in Terraform. For example, resource "aws_instance" "example" {...} cannot be used more than once in the same configuration. Terraform validate does not report errors related to module versions, state differences, or formatting issues, as these are not relevant for checking the configuration syntax and structure. References = [Validate Configuration], [Resource Syntax]

NEW QUESTION 21

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

- A. True
- B. False

Answer: B

Explanation:

Terraform can manage resource dependencies implicitly or explicitly. Implicit dependencies are created when a resource references another resource or data source in its arguments. Terraform can infer the dependency from the reference and create or destroy the resources in the correct order. Explicit dependencies are created when you use the depends_on argument to specify that a resource depends on another resource or module. This is useful when Terraform cannot infer the dependency from the configuration or when you need to create a dependency for some reason outside of Terraform's scope. References = : Create resource dependencies : Terraform Resource Dependencies Explained

NEW QUESTION 24

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

Explanation:

The reason why the apply fails after adding a new provider to the configuration and immediately running terraform apply in the CD using the local backend is because Terraform needs to install the necessary plugins first. Terraform providers are plugins that Terraform uses to interact with various cloud services and other APIs. Each provider has a source address that determines where to download it from. When Terraform encounters a new provider in the configuration, it needs to run terraform init first to install the provider plugins in a local directory. Without the plugins, Terraform cannot communicate with the provider and perform the desired actions. References = [Provider Requirements], [Provider Installation]

NEW QUESTION 28

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

- A. True
- B. False

Answer: A

Explanation:

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

NEW QUESTION 33

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

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

Answer: C

Explanation:

The concept of infrastructure as code (IaC) is to define and manage infrastructure using code, rather than manual processes or GUI tools. A script that contains a series of public cloud CLI commands is an example of IaC, because it uses code to provision resources into a public cloud. The other options are not examples of IaC, because they involve manual or interactive actions, such as running curl commands, sending REST requests, or entering commands into a console. References = [Introduction to Infrastructure as Code with Terraform] and [Infrastructure as Code]

NEW QUESTION 35

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

- A. True
- B. False

Answer: B

Explanation:

Module variable assignments are not inherited from the parent module and you need to explicitly set them using the source argument. This allows you to customize the behavior of each module instance.

NEW QUESTION 40

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

- A. True
- B. False

Answer: B

Explanation:

Outside of the required_providers block, Terraform configurations can refer to providers by either their local names or their source addresses. The local name is a short name that can be used throughout the configuration, while the source address is a global identifier for the provider in the format registry.terraform.io/namespace/type. For example, you can use either aws or registry.terraform.io/hashicorp/aws to refer to the AWS provider.

NEW QUESTION 42

Which of the following does terraform apply change after you approve the execution plan? (Choose two.)

- A. Cloud infrastructure Most Voted
- B. The .terraform directory
- C. The execution plan
- D. State file
- E. Terraform code

Answer: AD

Explanation:

The terraform apply command changes both the cloud infrastructure and the state file after you approve the execution plan. The command creates, updates, or destroys the infrastructure resources to match the configuration. It also updates the state file to reflect the new state of the infrastructure. The .terraform directory, the execution plan, and the Terraform code are not changed by the terraform apply command. References = Command: apply and Purpose of Terraform State

NEW QUESTION 46

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

Explanation:

This is a secure way to inject sensitive variables into your Terraform run, as they will not be stored in any file or source code repository. You can also use environment variables or variable files with encryption to pass sensitive variables to Terraform.

NEW QUESTION 48

What does state locking accomplish?

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

Answer: B

Explanation:

This is what state locking accomplishes, by preventing other users from modifying the state file while a Terraform operation is in progress. This prevents conflicts and data loss.

NEW QUESTION 51

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

Explanation:

This is the workflow for deploying new infrastructure with Terraform, as it will create a plan and apply it to the target environment. The other options are either incorrect or incomplete.

NEW QUESTION 54

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

Explanation:

This is what will happen if you run terraform apply in the working directory again, after removing the resource definition from your Terraform configuration file. Terraform will detect that there is a resource in the state file that is not present in the configuration file, and will assume that you want to delete it.

NEW QUESTION 55

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

Explanation:

The terraform fmt command is used to rewrite Terraform configuration files to a canonical format and style. This command applies a subset of the Terraform language style conventions, along with other minor adjustments for readability. Running this command on your configuration files before committing them to source control can help ensure consistency of style between different Terraform codebases, and can also make diffs easier to read. You can also use the -check and -diff options to check if the files are formatted and display the formatting changes respectively². Running the terraform fmt command during the code linting phase of your CI/CD process can help automate this process and enforce the formatting standards for your team. References = [Command: fmt]²

NEW QUESTION 57

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

Explanation:

To see all the resources that Terraform will delete, you can use either of these two commands:
? terraform destroy will show the plan of destruction and ask for your confirmation before proceeding. You can cancel the command if you do not want to destroy the resources.
? terraform plan -destroy will show the plan of destruction without asking for confirmation. You can use this command to review the changes before running terraform destroy. References = : Destroy Infrastructure : Plan Command: Options

NEW QUESTION 61

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

Explanation:

The terraform fmt command is used to format Terraform configuration files to a canonical format and style. This ensures that all team members are using a consistent style, making the code easier to read and maintain. It automatically applies Terraform's standard formatting conventions to your configuration files, helping maintain consistency across the team's codebase. References:
? Terraform documentation on terraform fmt: Terraform Fmt

NEW QUESTION 64

As a member of an operations team that uses infrastructure as code (IaC) practices, you are tasked with making a change to an infrastructure stack running in a public cloud. Which pattern would follow IaC best practices for making a change?

- A. Make the change via the public cloud API endpoint
- B. Clone the repository containing your infrastructure code and then run the code

- C. Use the public cloud console to make the change after a database record has been approved
- D. Make the change programmatically via the public cloud CLI
- E. Submit a pull request and wait for an approved merge of the proposed changes

Answer: E

Explanation:

You do not need to use different Terraform commands depending on the cloud provider you use. Terraform commands are consistent across different providers, as they operate on the Terraform configuration files and state files, not on the provider APIs directly.

NEW QUESTION 67

What does the default "local" Terraform backend store?

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

Answer: B

Explanation:

The default "local" Terraform backend stores the state file in a local file named terraform.tfstate, which can be used to track and manage the state of your infrastructure.

NEW QUESTION 72

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

Explanation:

These are two ways to produce a list of the IDs from a list of objects that have an attribute id, using either a for expression or a splat expression syntax.

NEW QUESTION 77

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

- A. True
- B. False

Answer: A

Explanation:

The remote backend can work with either a single remote Terraform Cloud workspace, or with multiple similarly-named remote workspaces (like networking-dev and networking-prod). The workspaces block of the backend configuration determines which mode it uses. To use a single remote Terraform Cloud workspace, set workspaces.name to the remote workspace's full name (like networking-prod). To use multiple remote workspaces, set workspaces.prefix to a prefix used in all of the desired remote workspace names. For example, set prefix = "networking-" to use Terraform cloud workspaces with names like networking-dev and networking-prod. This is helpful when mapping multiple Terraform CLI workspaces used in a single Terraform configuration to multiple Terraform Cloud workspaces. However, one remote backend configuration always maps to a single remote workspace, either by name or by prefix. You cannot use both name and prefix in the same backend configuration, or omit both. Doing so will result in a configuration error. References = [Backend Type: remote]

NEW QUESTION 78

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

Explanation:

This is where Terraform saves resource state when using a remote backend or Terraform Cloud integration, as it allows you to store and manage your state file in a remote location, such as a cloud storage service or Terraform Cloud's servers. This enables collaboration, security, and scalability for your Terraform infrastructure.

NEW QUESTION 82

Which of the following is not true of Terraform providers?

- A. An individual person can write a Terraform Provider
- B. A community of users can maintain a provider
- C. HashiCorp maintains some providers
- D. Cloud providers and infrastructure vendors can write, maintain, or collaborate on Terraform

- E. providers
- F. None of the above

Answer: F

Explanation:

All of the statements are true of Terraform providers. Terraform providers are plugins that enable Terraform to interact with various APIs and services¹. Anyone can write a Terraform provider, either as an individual or as part of a community². HashiCorp maintains some providers, such as the AWS, Azure, and Google Cloud providers³. Cloud providers and infrastructure vendors can also write, maintain, or collaborate on Terraform providers, such as the VMware, Oracle, and Alibaba Cloud providers. References =

- ¹: Providers - Configuration Language | Terraform | HashiCorp Developer
- ²: Plugin Development - How Terraform Works With Plugins | Terraform | HashiCorp Developer
- ³: Terraform Registry
- : Terraform Registry

NEW QUESTION 87

backends support state locking.

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

Answer: C

Explanation:

Some backends support state locking, which prevents other users from modifying the state file while a Terraform operation is in progress. This prevents conflicts and data loss. Not all backends support this feature, and you can check the documentation for each backend type to see if it does.

NEW QUESTION 88

What is one disadvantage of using dynamic blocks in Terraform?

- A. Dynamic blocks can construct repeatable nested blocks
- B. Terraform will run more slowly
- C. They cannot be used to loop through a list of values
- D. They make configuration harder to read and understand

Answer: D

Explanation:

This is one disadvantage of using dynamic blocks in Terraform, as they can introduce complexity and reduce readability of the configuration. The other options are either advantages or incorrect statements.

NEW QUESTION 93

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

Explanation:

This is the command that does not cause Terraform to refresh its state, as it only lists the resources that are currently managed by Terraform in the state file. The other commands will refresh the state file before performing their operations, unless you use the -refresh=false flag.

NEW QUESTION 97

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

Explanation:

This is the Terraform style convention for indenting a nesting level compared to the one above it. The other options are not consistent with the Terraform style guide.

NEW QUESTION 99

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

Explanation:

terraform init is the first command that should be run after writing a new Terraform configuration or cloning an existing one from version control. It initializes a working directory containing Terraform configuration files and downloads any required providers and modules. The other commands are used for different purposes, such as importing existing resources, switching between workspaces, generating execution plans, etc.

NEW QUESTION 103

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