Attempt 2
All questions
Question 1: Correct
Forcing the recreation of a resource is useful when you want a certain side effect of
recreation that is not visible in the attributes of a resource. What command will do this?
A. terraform apply
•
B. terraform taint
(Correct)
C. terraform refresh
D. terraform graph
Question 2: Correct
After creating a new workspace "PROD" you need to run the command terraform select
PROD to switch to it.
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TRUE
•
FALSE
(Correct)
Explanation
By default, when you create a new workspace you are automatically switched to it
Question 3: Correct
Taint the resource "aws_instance" "baz" resource that lives in module bar which lives in
module foo.
A. terraform taint module.foo.bar.aws_instance.baz
B. terraform taint module.foo.module.bar.aws_instance.baz
(Correct)
C townstaint to a horacous instance has
C. terraform taint foo.bar.aws_instance.baz
D. terraform taint module.foo.module.bar.baz
Explanation
Check resource addressing
https://www.terraform.io/docs/internals/resource-addressing.html
Question 4: Correct
The terraform import command can import resources directly into modules
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TRUE
(Correct)

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FALSE

Question 5: Correct

State locking does not happen automatically and must be specified at run

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TRUE

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FALSE

(Correct)

Explanation

State locking happens automatically on all operations that could write state.

https://www.terraform.io/docs/state/locking.html

Question 6: Correct

Eric needs to make use of module within his terraform code. Should the module always be public and open-source to be able to be used?

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TRUE

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FALSE

(Correct)

Question 7: Correct

Which of the below options is a valid interpolation syntax for retrieving a data source?

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A. \${aws_instance.web.id.data}

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B. \${google storage bucket.backend}

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C. \${azurerm_resource_group.test.data}

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D. \${data.google_dns_keys.foo_dns_keys.key_signing_keys[0].ds_record} (Correct)

Explanation

Data source attributes are interpolated with the general syntax *data.TYPE.NAME.ATTRIBUTE*. The interpolation for a resource is the same but without the *data*. prefix (TYPE.NAME.ATTRIBUTE).

https://www.terraform.io/docs/configuration-0-11/interpolation.html#attributes-of-a-data-source

Question 8: Correct

A colleague has informed you that a new version of a Terraform module that your team hosts on an Amazon S3 bucket is broken. The Amazon S3 bucket has versioning enabled. Your colleague tells you to make sure you are not using the latest version in your configuration. You have the following configuration block in your code that refers to the module:

```
module "infranet" {    source = "s3::https://s3-us-west-
2.amazonaws.com/infrabucket/infra_module.zip"}
```

Of the available choices, what is the best way to ensure that you are not using the latest version of the module?
A. Add a version key to the module configuration and specify a previous version
B. Add a version property to the module in Terraform's state file and specify a previous version
ullet
C. Delete the latest version of the module in S3 to rollback to the previous version
(Correct)
D. Add a module version constraint in your configuration's backend block and specify a previous
version
Explanation
Because only Terraform Registries support module versioning by using the version key, you
cannot configure a previous version of the module in the configuration. Deleting the latest
version of the module in S3 is the only option of the available options that ensures you won't
use the latest version. You could also modify the source URL to specify a versionId URL
parameter for a previous version.
https://www.terraform.io/docs/configuration/modules.html#source
Question 9: Correct
What kind of resource dependency is stored in terraform.tfstate file?
A Only cyclicit dependencies are stored in state file
A. Only explicit dependencies are stored in state file
D. Dath insuliait and avaliait dangerdancies are stored in state file.
B. Both implicit and explicit dependencies are stored in state file (Correct)
C. Only implicit dependencies are stored in state file
O
D. No dependency information is stored in state file
Explanation
Terraform state captures all dependency information, both implicit and explicit. One purpose
for state is to determine the proper order to destroy resources. When resources are created all
of their dependency information is stored in the state. If you destroy a resource with
dependencies, Terraform can still determine the correct destroy order for all other resources
because the dependencies are stored in the state.
https://www.terraform.io/docs/state/purpose.html#metadata
Question 10: Correct
If you delete a remote backend from the configuration you will need to rebuild your state
files locally
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TRUE

FALSE

(Correct)
Explanation
As part of the re-initialization, Terraform will ask if you'd like to migrate your state back down
to normal local state
Question 11: Correct
Which of the below command will upgrade the provider version to the latest acceptable one
?
A. terraform plan upgrade
B. terraform provider -upgrade
•
C. terraform init -upgrade
(Correct)
D. terraform init -update
Explanation
https://www.terraform.io/docs/configuration/providers.html
Question 12: Correct
Multiple configurations for the same provider can be used in a single configuration file.
• TRUE
TRUE (Correct)
Correct)
FALSE
Question 13: Correct
Jim has created several AWS resources from a single terraform configuration file. Someone
from his team has manually modified one of the EC2 instance.
Now to discard the manual change, Jim wants to destroy and recreate the EC2 instance. What
is the best way to do it?
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A. terraform refresh
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B. terraform taint

(Correct)
C. terraform recreate
D. terraform destroy
Question 14: Correct

Which of the below options is the equivalent Terraform 0.12 version of the snippet which is written in Terraform 0.11?

"\${var.instance_id}"

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```
A. var.instance id
(Correct)
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B. variable.instance_id
C. var.instance_ids
D. None of the above
Question 15: Correct
You cannot publish your own modules on the Terraform Registry.
FALSE
(Correct)
TRUE
Explanation
You CAN publish your own modules on the Terraform Registry
Question 16: Correct
Which of the following sub command is used to retrieve a list of resources that are part of the
state file?
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A. terraform state view
B. terraform state list
(Correct)
C. terraform list
\bigcirc
D. terraform view
Question 17: Correct
Dawn has created the below child module. Without changing the module, can she override
the instance type from t2.micro to t2.large form her code while calling this module?
resource "aws instance" "myec2" {
   ami = "ami-082b5a644766e0e6f"
   instance_type = "t2.micro
}
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```

Explanation

YES

NO
(Correct)

As the instance_type is hard-coded in source module, you will not be able to change its value from destination module. Instead of hard-coding you should use variable with default values.

Question 18: Correct

Mary has created a database instance in AWS and for ease of use is outputting the value of the database password with the following code:

```
output "db_password" {
  value = local.db_password
}
```

Mary wants to hide the output value in the CLI after terraform apply? What is the best way?

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A. Encrypt the value using encrypt() function

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B. Use sensitive parameter

(Correct)

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C. Use cryptographic hash

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D. Use secure parameter

Question 19: Correct

Terraform Cloud always encrypts state at rest and protects it with TLS in transit. Terraform Cloud also knows the identity of the user requesting state and maintains a history of state changes.

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TRUE

(Correct)

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FALSE

Explanation

https://www.terraform.io/docs/state/sensitive-data.html

Question 20: Correct

Your manager has instructed you to start using terraform for the entire infra provisioning of the application stack. There are 4 environments – DEV , QA , UAT , and PROD. The application team has asked for complete segregation between these environments including the backend , state , and also configurations ,since there will be unique resources in different environments . What is the possible way to structure the terraform code to facilitate that.

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A. Implement terraform workspaces, and map each environment with one workspace.

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B. Enable remote backend storage . Configure 4 different backend storages , one for each environment.

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C. Completely separate the working directories, keep one for each environment. For each working directory, maintain a separate configuration file, variables file, and map to a different backend. (Correct)

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D. Completely separate the working directories, keep one for each environment. For each working directory, maintain a separate configuration file, variables file, and map to the same backend.

Explanation

In particular, organizations commonly want to create a strong separation between multiple deployments of the same infrastructure serving different development stages (e.g. staging vs. production) or different internal teams. In this case, the backend used for each deployment often belongs to that deployment, with different credentials and access controls. Named workspaces are *not* a suitable isolation mechanism for this scenario.

https://www.terraform.io/docs/state/workspaces.html

Question 21: Correct

A. Terraform Modules

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Every region in AWS has a different AMI ID for Linux and these are keep on changing. What is the best approach to create the EC2 instances that can deal with different AMI IDs based on regions??

regions??
A. Use data source aws_ami
(Correct)
B. Create a map of region to ami id
C. create different configuration file for different region
D. None of the above
Explanation
https://www.terraform.io/docs/configuration/data-sources.html
Question 22: Correct
You have already set TF_LOG = DEBUG to enable debug log. Now you want to always write
the log to the directory you're currently running terraform from. what should you do to
achieve this.
A. run the command export TF_DEBUG_PATH=./terraform.log
B. run the command export TF_LOG_PATH=./terraform.log
(Correct)
C. No explicit action required. Terraform will take care of this as you have enable TF_LOG
D. run the command export TF_LOG_FILE=./terraform.log
Explanation
https://www.terraform.io/docs/commands/environment-variables.html
C is not a correct option as Terraform does not persist log.
Question 23: Correct
Which feature of Terraform allows multiple state files for a single configuration file
depending upon the environment?

B. Terraform Remote Backends
C. Terraform Workspaces
(Correct)
D. Terraform Enterprise
Question 24: Correct
A variable az has the following default value. What will be the datatype of the variable?
az=["us-west-1a","us-east-1a"]
C
A. Map
•
B. List
(Correct)
C. Object
D. String
Question 25: Correct
Your company has a lot of workloads in AWS, and Azure that were respectively created using
CloudFormation, and AzureRM Templates. However, now your CIO has decided to use
Terraform for all new projects, and has asked you to check how to integrate the existing
environment with terraform code. What should be your next plan of action?
A. Tell the CIO that this is not possible . Resources created in CloudFormation , and AzureRM
templates cannot be tracked using terraform.
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B. This is only possible in Terraform Enterprise , which has the TerraformConverter exe that can
take any other template language like AzureRM and convert to Terraform code.
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C. Just write the terraform config file for the new resources , and run terraform apply , the state file
will automatically be updated with the details of the new resources to be imported.
D. Use terraform import command to import each resource one by one .
(Correct)
Question 26: Correct
Your team uses terraform OSS . You have created a number of resuable modules for
important, independent network components that you want to share with your team to
enhance consistency. What is the correct option/way to do that?
A Tamafama madulas sanat ha shanad in OSS canaina. Fach decale non acade to maintain their
A. Terraform modules cannot be shared in OSS version . Each developer needs to maintain their own modules , and leverage them in the main tf file.
Own modules , and leverage them in the main ti file.

B. Terraform module sharing is only available in Enterprise version via terraform private module registry , so no way to enable it in OSS version.

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C. Store your modules in a NAS/ shared file server , and ask your team members to directly reference the code from there . This is the only viable option in terraform OSS ,which is better than individually maintaining module versions for every developer.

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D. Upload your modules with proper versioning in the terraform public module registry . Terraform OSS is directly integrated with the public module registry , and can reference the modules from the code in the main tf file.

(Correct)

Explanation

https://www.terraform.io/docs/registry/index.html

Question 27: Correct

You wanted to destroy some of the dependent resources from real infrastructure. You choose to delete those resources from your configuration file and run terraform plan and then apply. Which of the following way your resources would be destroyed?

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A. Those would be destroyed in the order in which they were written in the configuration file previously before you have deleted them from configuration file.

(e)

B. Terraform can still determine the correct order for destruction from the state even when you delete one or more items from the configuration.

(Correct)

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C. The resource will be destructed in random order as you have already deleted them from configuration

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D. You can not destroy resources by deleting them from configuration file and running plan and apply

Explanation

B. Is the correct ans. D is not true because you can destroy resources by deleting them from configuration file and running plan and apply

Terraform typically uses the configuration to determine dependency order. However, when you delete a resource from a Terraform configuration, Terraform must know how to delete that resource. Terraform can see that a mapping exists for a resource not in your configuration and plan to destroy. However, since the configuration no longer exists, the order cannot be determined from the configuration alone.

To ensure correct operation, Terraform retains a copy of the most recent set of dependencies within the state. Now Terraform can still determine the correct order for destruction from the state when you delete one or more items from the configuration.

Question 28: Correct

Talal is a DevOps engineer and he has deployed the production infrastructure using Terraform. He is using a very large configuration file to maintain and update the actual infrastructure. As the infrastructure have grown to a very complex and large, he has started experiencing slowness when he run runs terraform plan. What are the options for him to resolve this slowness?

A. Run terraform refresh every time before running terraform plan. ✓
B. Use -refresh=false flag as well as the -target flag with terraform plan in order to work
around this.
(Correct)
C. break large configurations into several smaller configurations that can each be independently applied.
(Correct)
D. Use -refresh=true flag as well as the -target flag with terraform plan in order to work
around this.

Explanation

For larger infrastructures, querying every resource is too slow. Many cloud providers do not provide APIs to query multiple resources at once, and the round trip time for each resource is hundreds of milliseconds. On top of this, cloud providers almost always have API rate limiting so Terraform can only request a certain number of resources in a period of time. Larger users of Terraform make heavy use of the -refresh=false flag as well as the -target flag in order to work around this. In these scenarios, the cached state is treated as the record of truth.

Although **option B** is a solution, but its not always recommended. Instead of using -target as a means to operate on isolated portions of very large configurations, prefer instead to break large configurations into several smaller configurations that can each be independently applied. Data sources can be used to access information about resources created in other configurations, allowing a complex system architecture to be broken down into more manageable parts that can be updated independently.

Option A and D is not correct because in both the cases terraform will query every resources of the infrastructure.

Question 29: Correct

Which of the below backends support state locking?

A. azurerm
(Correct)

B. artifactory

C. Consul
(Correct)

D. S3
(Correct)
Question 30: Correct Which of the following connection types are supported by the remote-exec provisioner? (select two)
A. SSh
(Correct)
B. UDP
▼
C. winrm
(Correct)
D. RDP
Explanation
https://www.terraform.io/docs/provisioners/remote-exec.html
Retake testContinue