AWS: TERRAFORM

DIRECTORY STRUCTURE:

```
C:\Users\IQ-Swati\Documents\Relait-IT\AZURE-AWS\TERRAFORM-AWS>tree
Folder PATH listing
Volume serial number is 5C65-E449
C:.
—_____modules
____ec2
____security_group
```

Terraform init:

```
PS C:\Users\TQ-Swart\Documents\Relait-IT\AZURE-AWS\TERRAFORM-AWS> terraform init
Initializing the backend...
Initializing mobiles...

e 22_instance in mobiles\text{\text{ec}}

security_group in mobiles\text{\text{ec}}

security_group in mobiles\text{\text{ec}}

security_group in mobiles\text{\text{ec}}

Finding hashicorp/ace versions matching "> 5.86.0"...

Finding hashicorp/ace versions with the properties of hashicorp\text{\text{ec}}

Installing hashicorp/ace v5.86.1 (signed by HashiCorp)

Installing hashicorp/ace v5.86.1.

Installing hashicorp/ace v5.86.0.(signed by HashiCorp)

Installing hashicorp/ace v6.86...

Installi
```

Terraform validate:

commands will detect it and remind you to do so if necessary.

PS C:\Users\IQ-Swati\Documents\Relait-IT\AZURE-AWS\TERRAFORM-AWS> terraform validate
Success! The configuration is valid.

Terraform plan:

Terraform

Apply:

Note: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly these actions if you run "terraform apply" now.

PS C:\Users\IQ-Swati\Documents\Relait-IT\AZURE-AWS\TERRAFORM-AWS\ terraform apply -var-file="dev.tfvars"

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:

+ create

```
Plan: 5 to add, 0 to change, 0 to destroy.
Changes to Outputs:
  + instance_id
                        = (known after apply)
  + public_ip
                        = (known after apply)
  + security_group_id = (known after apply)
Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.
  Enter a value: yes
module.ec2_instance.tls_private_key.key: Creating...
module.security_group.aws_security_group.this: Creating...
module.ec2_instance.tls_private_key.key: Creation complete after 2s [id=c79224c5d652b60530e6ac04c1612b8dc30ac2c6]
module.ec2\_instance.aws\_key\_pair.generated\_key: Creating...
module.ec2_instance.local_file.private_key: Creating...
module.ec2_instance.local_file.private_key: Creation complete after 0s [id=ac5e61938df75e6c7feb940da0b593a518821aef] module.ec2_instance.aws_key_pair.generated_key: Creation complete after 2s [id=my-ec2-key]
module.security_group.aws_security_group.this: Creation complete after 6s [id=sg-0a47cd86fd4475a3a]
module.ec2\_instance.aws\_instance.this: Creating...
module.ec2_instance.aws_instance.this: Still creating... [10s elapsed]
module.ec2_instance.aws_instance.this: Creation complete after 16s [id=i-0509d517f3b4b95c7]
Apply complete! Resources: 5 added, 0 changed, 0 destroyed.
instance_id = "i-0509d517f3b4b95c7"
public_ip = "44.246.186.198"
security_group_id = "sg-0a47cd86fd4475a3a"
```

instance id = "i-0509d517f3b4b95c7"

```
public ip = "44.246.186.198"
```

security_group_id = "sg-0a47cd86fd4475a3a"

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE COMMENTS

PS C:\Users\IQ-Swati\Documents\Relait-IT\AZURE-AM6\TERRAFORM-AM6\modules\ec2> ssh -i ".\my-ec2-key.pem" ec2-user@44.246.186.198
The authenticity of host '44.246.186.198 (44.246.186.198)' can't be established.
ED25519 key fingerprint is SH4256:kt0684/dPge/P62gi9u8goRdReyD0XdiHy]Wkx0X4.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Marning: Permanently added '44.246.186.198' (ED25519) to the list of known hosts.

####_ Amazon Linux 2023
##### Amazon Linux 2023
##### https://aws.amazon.com/linux/amazon-linux-2023

##### https://aws.amazon.com/linux/amazon-linux-2023

#### [ec2-user@ip-172-31-16-222 ~]$ [
```

• Terraform Destory:

```
PS C:\Users\IQ-Swati\Documents\Relait-IT\AZURE-AWS\TERRAFORM-AWS> terraform destroy -var-file="dev.tfvars" module.ec2_instance.tls_private_key.key: Refreshing state... [id=c79224c5d652b60530e6ac04c1612b8dc30ac2c6] module.ec2_instance.local_file.private_key: Refreshing state... [id=ac5e61938df75e6c7feb940da0b593a518821aef] module.ec2_instance.aws key_pair.generated_key: Refreshing state... [id=my-ec2-key] module.security_group.aws_security_group.this: Refreshing state... [id=sg-0a47cd86fd4475a3a] module.ec2_instance.aws_instance.this: Refreshing state... [id=i-0509d517f3b4b95c7]

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols: - destroy

Terraform will perform the following actions:
```

```
module.ec2 instance.local file.private key: Destroying... [id=ac5e61938df75e6c7feb940da0b593a518821aef]
module.ec2 instance.local file.private key: Destruction complete after 0s
module.ec2 instance.aws instance.this: Destroying... [id=i-0509d517f3b4b95c7]
module.ec2 instance.aws instance.this: Still destroying... [id=i-0509d517f3b4b95c7, 10s elapsed]
module.ec2 instance.aws instance.this: Still destroying... [id=i-0509d517f3b4b95c7, 20s elapsed]
module.ec2 instance.aws instance.this: Still destroying... [id=i-0509d517f3b4b95c7, 30s elapsed]
module.ec2 instance.aws instance.this: Still destroying... [id=i-0509d517f3b4b95c7, 40s elapsed]
module.ec2 instance.aws instance.this: Still destroying... [id=i-0509d517f3b4b95c7, 50s elapsed]
module.ec2 instance.aws instance.this: Still destroying... [id=i-0509d517f3b4b95c7, 1m0s elapsed]
module.ec2 instance.aws instance.this: Destruction complete after 1m4s
module.ec2_instance.aws_key_pair.generated_key: Destroying... [id=my-ec2-key]
module.security_group.aws_security_group.this: Destroying... [id=sg-0a47cd86fd4475a3a]
module.ec2_instance.aws_key_pair.generated_key: Destruction complete after 0s
module.ec2_instance.tls_private_key.key: Destroying... [id=c79224c5d652b60530e6ac04c1612b8dc30ac2c6]
module.ec2_instance.tls_private_key.key: Destruction complete after 0s
module.security_group.aws_security_group.this: Destruction complete after 2s
Destroy complete! Resources: 5 destroyed.
PS C:\Users\IQ-Swati\Documents\Relait-IT\AZURE-AWS\TERRAFORM-AWS>
```

Resources has been destroyed.