

Star@De11-I3 MINGW64 ~

\$ cd /d/terraform-examples/exercise2

Star@De11-I3 MINGW64 /d/terraform-examples/exercise2

\$ ls

instance.tf provider.tf terraform.tfstate terraform.tfstate.backup var.tf

Star@De11-I3 MINGW64 /d/terraform-examples/exercise2

\$ terraform init

Initializing the backend...

Initializing provider plugins...

- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v5.57.0

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see any changes that are required for your infrastructure. All Terraform commands should now work.

If you ever set or change modules or backend configuration for Terraform, rerun this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary.

Star@De11-I3 MINGW64 /d/terraform-examples/exercise2

\$ terraform validate

Success! The configuration is valid.

Star@De11-I3 MINGW64 /d/terraform-examples/exercise2

\$ terraform fmt

instance.tf

Star@De11-I3 MINGW64 /d/terraform-examples/exercise2

\$ cat instance.tf

```
resource "aws_instance" "exercise2" {  
  ami           = var.AMIS[var.REGION]
```

Star@Dell-I3 MINGW64 /d/terraform-examples/exercise2

```
$ cat provider.tf
provider "aws" {
  region = var.REGION
}
```

Star@Dell-I3 MINGW64 /d/terraform-examples/exercise2

```
$ cat var.tf
variable "REGION" {
  default = "us-east-1"
}
variable "ZONE1" {
  default = "us-east-2a"
}
variable "AMIs" {
  type = map(any)
  default = {
    us-east-2 = "ami-03657b56516ab7912"
    us-east-1 = "ami-0b72821e2f351e396"
  }
}
```

Star@Dell-I3 MINGW64 /d/terraform-examples/exercise2

```
$ terraform plan
```

aws_instance.exercise2: Refreshing state... [id=i-08a63ba97ab68d450]

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

+ create

Terraform will perform the following actions:

aws_instance.exercise2 will be created

```
+ resource "aws_instance" "exercise2" {
  + ami                  = "ami-0b72821e2f351e396"
  + arn                  = (known after apply)
  + associate_public_ip_address = (known after apply)
  + availability_zone     = (known after apply)
  + cpu_core_count        = (known after apply)
  + cpu_threads_per_core  = (known after apply)
  + disable_api_stop      = (known after apply)
  + disable_api_termination = (known after apply)
```

Plan: 1 to add, 0 to change, 0 to destroy.

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.

star@Dell-I3 MINGW64 /d/terraform-examples/exercise2

\$ terraform apply

aws_instance.exercise2: Refreshing state... [id=i-08a63ba97ab68d450]

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

+ create

Terraform will perform the following actions:

aws_instance.exercise2 will be created

```
+ resource "aws_instance" "exercise2" {  
  + ami                  = "ami-0b72821e2f351e396"  
  + arn                  = (known after apply)  
  + associate_public_ip_address = (known after apply)  
  + availability_zone     = (known after apply)  
  + cpu_core_count        = (known after apply)  
  + cpu_threads_per_core  = (known after apply)  
  + disable_api_stop      = (known after apply)  
  + disable_api_termination = (known after apply)  
  + ebs_optimized         = (known after apply)  
  + get_password_data     = false  
  + host_id               = (known after apply)  
  + host_resource_group_arn = (known after apply)  
  + iam_instance_profile  = (known after apply)  
  + id                   = (known after apply)  
  + instance_initiated_shutdown_behavior = (known after apply)  
  + instance_lifecycle    = (known after apply)  
  + instance_state        = (known after apply)  
  + instance_type         = "t2.micro"  
  + ipv6_address_count     = (known after apply)  
  + ipv6_addresses        = (known after apply)
```


Editing "Terraform Variables "

Instance details | EC2 | us-east-1

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#InstanceDetails:instanceId=i-08a63ba97ab68d450

aws

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Instances

i-08a63ba97ab68d450

Instance summary for i-08a63ba97ab68d450 (Exercise2)

Info

Updated less than a minute ago

Instance ID

i-08a63ba97ab68d450 (Exercise2)

IPv6 address

-

Hostname type

IP name: ip-172-31-89-28.ec2.internal

Answer private resource DNS name

-

Auto-assigned IP address

18.208.115.172 [Public IP]

IAM Role

-

IMDSv2

Required

Public IPv4 address

18.208.115.172 | open address

Instance state

Running

Private IP DNS name (IPv4 only)

ip-172-31-89-28.ec2.internal

Instance type

t2.micro

VPC ID

vpc-0fd04e9d261bba5d2

Subnet ID

subnet-0e36dc61d7ee66406

Instance ARN

arn:aws:ec2:us-east-1:637423482922:instance/i-08a63ba97ab68d450

Private IPv4 addresses

172.31.89.28

Public IPv4 DNS

ec2-18-208-115-172.compute-1.amazonaws.com | open address

Elastic IP addresses

-

AWS Compute Optimizer finding

Opt-in to AWS Compute Optimizer for recommendations. | Learn more

Auto Scaling Group name

-

CloudShell

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12-Jul-2024

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.

```
Star@Dell-I3 MINGW64 /d/terraform-examples/exercise2
$ vim var.tf
```

```
Star@Dell-I3 MINGW64 /d/terraform-examples/exercise2
```

```
$ cat var.tf
variable "REGION" {
  default = "us-east-1"
}
variable "ZONE1" {
  default = "us-east-2a"
}
variable "AMIs" {
  type = map(any)
  default = {
    us-east-2 = "ami-03657b56516ab7912"
    us-east-1 = "ami-04a81a99f5ec58529"
  }
}
```

```
Star@Dell-I3 MINGW64 /d/terraform-examples/exercise2
```

```
$ terraform plan
aws_instance.exercise2: Refreshing state... [id=i-0e851edb7bdbdd32c]
```

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
-/+ destroy and then create replacement

Terraform will perform the following actions:

```
# aws_instance.exercise2 must be replaced
-/+ resource "aws_instance" "exercise2" {
  ~ ami              = "ami-0b72821e2f351e396" -> "ami-04a81a99f5ec58529" # forces replacement
  ~ arn              = "arn:aws:ec2:us-east-1:637423482922:instance/i-0e851edb7bdbdd32c" -> (known after apply)
  ~ associate_public_ip_address = true -> (known after apply)
  ~ availability_zone = "us-east-1c" -> (known after apply)
  ~ cpu_core_count    = 1 -> (known after apply)
  ~ cpu_threads_per_core = 1 -> (known after apply)
  ~ disable_api_termination = false -> (known after apply)
```


}

Plan: 1 to add, 0 to change, 1 to destroy.

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.

star@Dell-I3 MINGW64 /d/terraform-examples/exercise2

\$ terraform apply

aws_instance.exercise2: Refreshing state... [id=i-0e851edb7bdbdd32c]

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

-/+ destroy and then create replacement

Terraform will perform the following actions:

```
# aws_instance.exercise2 must be replaced
-/+ resource "aws_instance" "exercise2" {
  ~ ami                  = "ami-0b72821e2f351e396" -> "ami-04a81a99f5ec58529" # forces replacement
  ~ arn                  = "arn:aws:ec2:us-east-1:637423482922:instance/i-0e851edb7bdbdd32c" -> (known after apply)
  ~ associate_public_ip_address = true -> (known after apply)
  ~ availability_zone       = "us-east-1c" -> (known after apply)
  ~ cpu_core_count          = 1 -> (known after apply)
  ~ cpu_threads_per_core    = 1 -> (known after apply)
  ~ disable_api_stop        = false -> (known after apply)
  ~ disable_api_termination = false -> (known after apply)
  ~ ebs_optimized           = false -> (known after apply)
  - hibernation              = false -> null
  + host_id                  = (known after apply)
  + host_resource_group_arn  = (known after apply)
  + iam_instance_profile     = (known after apply)
  ~ id                      = "i-0e851edb7bdbdd32c" -> (known after apply)
  ~ instance_initiated_shutdown_behavior = "stop" -> (known after apply)
  + instance_lifecycle       = (known after apply)
  ~ instance_state           = "running" -> (known after apply)
  ~ ipv6_address_count       = 0 -> (known after apply)
  ~ ipv6_addresses           = [] -> (known after apply)
```

Terraform will perform the actions described above.
only 'yes' will be accepted to approve.

Enter a value: yes

```
aws_instance.exercise2: Destroying... [id=i-0e851edb7bdbdd32c]
aws_instance.exercise2: Still destroying... [id=i-0e851edb7bdbdd32c, 10s elapsed]
aws_instance.exercise2: Still destroying... [id=i-0e851edb7bdbdd32c, 20s elapsed]
aws_instance.exercise2: Still destroying... [id=i-0e851edb7bdbdd32c, 30s elapsed]
aws_instance.exercise2: Still destroying... [id=i-0e851edb7bdbdd32c, 40s elapsed]
aws_instance.exercise2: Destruction complete after 45s
aws_instance.exercise2: Creating...
aws_instance.exercise2: Still creating... [10s elapsed]
aws_instance.exercise2: Still creating... [20s elapsed]
aws_instance.exercise2: Creation complete after 26s [id=i-0bdd258658235d08a]
```

Apply complete! Resources: 1 added, 0 changed, 1 destroyed.

Star@Dell-I3 MINGW64 /d/terraform-examples/exercise2

\$ terraform destroy

```
aws_instance.exercise2: Refreshing state... [id=i-0bdd258658235d08a]
```

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:

```
# aws_instance.exercise2 will be destroyed
- resource "aws_instance" "exercise2" {
  - ami                  = "ami-04a81a99f5ec58529" -> null
  - arn                  = "arn:aws:ec2:us-east-1:637423482922:instance/i-0bdd258658235d08a" -> null
  - associate_public_ip_address = true -> null
  - availability_zone      = "us-east-1c" -> null
  - cpu_core_count         = 1 -> null
  - cpu_threads_per_core   = 1 -> null
  - disable_api_stop       = false -> null
  - disable_api_termination = false -> null
  - ebs_optimized          = false -> null
  - get_password_data      = false -> null
```


Editing "Terraform Variable" x

Instance details | EC2 | us-east-1 x

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Ragavi04P/Terraform-Pract x

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Demystify the kubeconfig x

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#InstanceDetails:instanceId=i-0bdd258658235d08a

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Platform

📄 Ubuntu (Inferred)

Platform details

📄 Linux/UNIX

Stop protection

Disabled

Instance auto-recovery

Default

AMI Launch index

0

Credit specification

standard

Usage operation

📄 RunInstances

Enclaves Support

—

AMI ID

📄 [ami-04a81a99f5ec58529](#)

AMI name

📄 ubuntu/images/hvm-ssd-gp3/ubuntu-noble-24.04-amd64-server-20240701.1

Launch time

📄 Fri Jul 12 2024 23:42:32 GMT+0530 (India Standard Time) (8 minutes)

Lifecycle

normal

Key pair assigned at launch

📄 [key-aws](#)

Kernel ID

—

RAM disk ID

—

Boot mode

📄 uefi-preferred

Monitoring

disabled

Termination protection

Disabled

AMI location

📄 amazon/ubuntu/images/hvm-ssd-gp3/ubuntu-noble-24.04-amd64-server-20240701.1

Stop-hibernate behavior

Disabled

State transition reason

—

State transition message

—

Owner

📄 637423482922

Current instance boot mode

📄 legacy-bios

CloudShell

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