LAB - Your first Infrastructure in Terraform

Init

```
vijayagagla@DESKTOP-FP4OP26:~/terra_course/myFirstTerraformProject$ terraform init
Initializing the backend...
Initializing provider plugins...
- Finding hashicorp/aws versions matching "5.40.0"...
- Installing hashicorp/aws v5.40.0...
- Installed hashicorp/aws v5.40.0 (signed by HashiCorp)
Terraform has created a lock file .terraform.lock.hcl to record the provider
selections it made above. Include this file in your version control repository
so that Terraform can guarantee to make the same selections by default when
you run "terraform init" in the future.

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.
vijayagagla@DESKTOP-FP4OP26:~/terra_course/myFirstTerraformProject$ terraform fmt
vijayagagla@DESKTOP-FP4OP26:~/terra_course/myFirstTerraformProject$ terraform validate
Success! The configuration is valid.
```

Plan

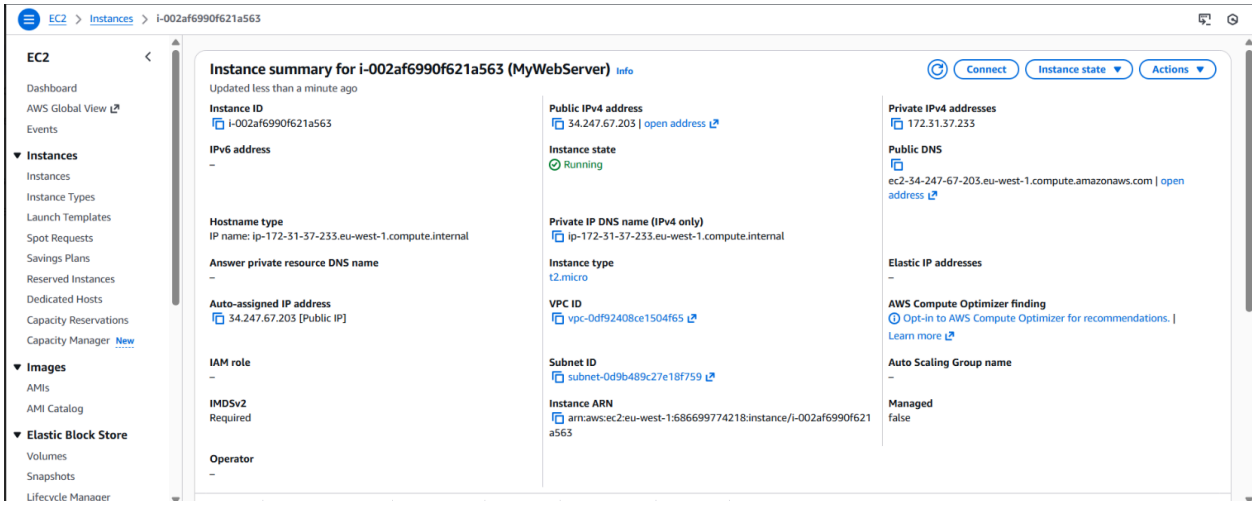
```
vijayagagla@DESKTOP-FP4OP26:~/terra_course/myFirstTerraformProject$ terraform plan

Terraform used the selected providers to generate the following execution plan. Resource actions are indi
cated with the
following symbols:
  + create

Terraform will perform the following actions:

  # aws_instance.web_server will be created
  + resource "aws_instance" "web_server" {
      + ami                                  = "ami-07d9b9ddc6cd8dd30"
      + 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)
      + key_name                             = (known after apply)
      + monitoring                           = (known after apply)
      + outpost_arn                          = (known after apply)
      + password_data                        = (known after apply)
      + placement_group                      = (known after apply)
      + placement_partition_number           = (known after apply)
```

EC2 Instance in Console



```
+ primary_network_interface_id          = (known after apply)
+ private_dns                           = (known after apply)
+ private_ip                            = (known after apply)
+ public_dns                            = (known after apply)
+ public_ip                             = (known after apply)
+ secondary_private_ips                 = (known after apply)
+ security_groups                       = (known after apply)
+ source_dest_check                     = true
+ spot_instance_request_id              = (known after apply)
+ subnet_id                             = (known after apply)
+ tags                                  = {
    + "Name" = "MyWebServer"
  }
+ tags_all                              = {
    + "Name" = "MyWebServer"
  }
+ tenancy                               = (known after apply)
+ user_data                             = (known after apply)
+ user_data_base64                      = (known after apply)
+ user_data_replace_on_change           = false
+ vpc_security_group_ids                = (known after apply)

+ capacity_reservation_specification (known after apply)

+ cpu_options (known after apply)

+ cpu_options (known after apply)

+ cpu_options (known after apply)

+ ebs_block_device (known after apply)

+ enclave_options (known after apply)

+ ephemeral_block_device (known after apply)

+ instance_market_options (known after apply)
```

```
      + maintenance_options (known after apply)

      + metadata_options (known after apply)

      + network_interface (known after apply)

      + private_dns_name_options (known after apply)

      + root_block_device (known after apply)
    }

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

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

Apply

```
vijayagagla@DESKTOP-FP4OP26:~/terra_course/myFirstTerraformProject$ terraform apply

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.web_server will be created
  + resource "aws_instance" "web_server" {
      + ami                                  = "ami-096f46d460613bed4"
      + 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)
      + key_name                             = (known after apply)
      + monitoring                           = (known after apply)
      + outpost_arn                          = (known after apply)
      + password_data                        = (known after apply)
      + placement_group                      = (known after apply)
      + placement_partition_number           = (known after apply)
      + primary_network_interface_id         = (known after apply)
```

```
+ placement_group                     = (known after apply)
+ placement_partition_number          = (known after apply)
+ primary_network_interface_id        = (known after apply)
+ private_dns                         = (known after apply)
+ private_ip                          = (known after apply)
+ public_dns                          = (known after apply)
+ public_ip                           = (known after apply)
+ secondary_private_ips                = (known after apply)
+ security_groups                     = (known after apply)
+ source_dest_check                   = true
+ spot_instance_request_id            = (known after apply)
+ subnet_id                           = (known after apply)
+ tags                                = {
    + "Name" = "MyWebServer"
  }
+ tags_all                            = {
    + "Name" = "MyWebServer"
  }
+ tenancy                             = (known after apply)
+ user_data                           = (known after apply)
+ user_data_base64                    = (known after apply)
+ user_data_replace_on_change         = false
+ vpc_security_group_ids              = (known after apply)

+ capacity_reservation_specification (known after apply)

+ cpu_options (known after apply)

+ ebs_block_device (known after apply)

+ enclave_options (known after apply)

+ ephemeral_block_device (known after apply)

+ instance_market_options (known after apply)

+ maintenance_options (known after apply)
```

```
      + instance_market_options (known after apply)

      + maintenance_options (known after apply)

      + metadata_options (known after apply)

      + network_interface (known after apply)

      + private_dns_name_options (known after apply)

      + root_block_device (known after apply)
    }

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

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

aws_instance.web_server: Creating...
aws_instance.web_server: Still creating... [00m09s elapsed]
aws_instance.web_server: Still creating... [00m18s elapsed]
aws_instance.web_server: Still creating... [00m27s elapsed]
aws_instance.web_server: Creation complete after 30s [id=i-002af6990f621a563]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
vijayagagla@DESKTOP-FP4OP26:~/terra_course/myFirstTerraformProject$
```

EC2 Instance in the Console