

Using Terraform

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Now that we have our simple Terraform script, we can start to use Terraform. First we need to test the script for any errors, then we can launch our EC2 Instance by running the script.

Terraform Plan

The terraform plan command is used to create an execution plan. Terraform performs a refresh, unless explicitly disabled, and then determines what actions are necessary to achieve the desired state specified in the configuration files. The plan can be saved using -out, and then provided to terraform apply to ensure only the pre-planned actions are executed.

As I only have one configuration file, I can just use the command:

```
terraform plan
```

For my configuration file, I get the following output.

Refreshing Terraform state in-memory prior to plan...

The refreshed state will be used to calculate this plan, but will not be persisted to local or remote state storage.

The Terraform execution plan has been generated and is shown below.

Resources are shown in alphabetical order for quick scanning. Green resources will be created (or destroyed and then created if an existing resource exists), yellow resources are being changed in-place, and red resources will be destroyed. Cyan entries are data sources to be read.

Note: You didn't specify an "-out" parameter to save this plan, so when "apply" is called, Terraform can't guarantee this is what will execute.

```
+ aws_instance.example
  ami: "ami-40a8bf24"
  associate_public_ip_address: "<computed>"
  availability_zone: "<computed>"
  ebs_block_device.#: "<computed>"
  ephemeral_block_device.#: "<computed>"
  instance_state: "<computed>"
  instance_type: "t2.micro"
  ipv6_address_count: "<computed>"
  ipv6_addresses.#: "<computed>"
  key_name: "TestSvr"
  network_interface.#: "<computed>"
  network_interface_id: "<computed>"
  placement_group: "<computed>"
  primary_network_interface_id: "<computed>"
  private_dns: "<computed>"
  private_ip: "<computed>"
  public_dns: "<computed>"
  public_ip: "<computed>"
  root_block_device.#: "<computed>"
  security_groups.#: "1"
  security_groups.2525401260: "launch-wizard-1"
  source_dest_check: "true"
  subnet_id: "<computed>"
  tags.%: "1"
  tags.Name: "terraform-instance"
  tenancy: "<computed>"
  volume_tags.%: "<computed>"
```

```
vpc_security_group_ids.#:      "<computed>"
```

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

This is the type of output you will get if your script file does not contain any errors.

Terraform Apply

Before starting the Terraform apply option, I suggest you log in to your AWS account so that you can monitor the progress of the script.

Here is my AWS account with no configured EC2 Instances.

Resources

You are using the following Amazon EC2 resources in the EU West (London) region:

0 Running Instances	0 Elastic IPs
0 Dedicated Hosts	0 Snapshots
0 Volumes	0 Load Balancers
1 Key Pairs	2 Security Groups
0 Placement Groups	

Create Instance

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

[Launch Instance](#)

Note: Your instances will launch in the EU West (London) region

Service Health

Service Status:

- EU West (London): This service is operating normally

Availability Zone Status:

- eu-west-2a: Availability zone is operating normally
- eu-west-2b: Availability zone is operating normally

[Service Health Dashboard](#)

Scheduled Events

EU West (London): No events

In the above example we can see that there is no EC2 Instance configured on this AWS account. There is a default security group that we configured, as well as our key pair. These are both specified in our Terraform script. Remember this script does not create these elements, it just uses them.

If we select Running Instances, then this will be empty (unless you have manually created some.)

[Launch Instance](#) [Connect](#) [Actions](#)

Filter by tags and attributes or search by keyword

You do not have any running instances in this region.

First time using EC2? Check out the [Getting Started Guide](#).

Click the Launch Instance button to start your own server.

[Launch Instance](#)

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