

BTS – MBDS

Big Data Infrastructure

A5: AWS - EC2

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1. Install Docker and Python

Terraform yml file

```
File: main.tf
1 resource "aws_instance" "myInstance" {
2   ami           = "ami-042e8287309f5df03"
3   instance_type = "t2.micro"
4   user_data     = <<-EOF
5                 #!/bin/bash
6                 sudo su
7                 apt -y install httpd
8                 echo "<p> My Instance! </p>" >> /var/www/html/index.html
9                 sudo systemctl enable httpd
10                sudo systemctl start httpd
11                EOF
12 }
13
14 output "DNS" {
15   value = aws_instance.myInstance.public_dns
16 }
```

Terraform apply

```
➤ AWS_EC2 > P master +2 !1 744 vim main.tf
> terraform apply

An execution plan has been generated and is shown below.
Resource actions are indicated with the following symbols:
+ create

Terraform will perform the following actions:

# aws_instance.myInstance will be created
+ resource "aws_instance" "myInstance" {
+   ami           = "ami-042e8287309f5df03"
+   arn           = (known after apply)
+   associate_public_ip_address = (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

aws_instance.myInstance: Creating...
aws_instance.myInstance: Still creating... [10s elapsed]
aws_instance.myInstance: Still creating... [20s elapsed]
aws_instance.myInstance: Creation complete after 26s [id=i-039d4ccb41e486450]

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

Outputs:

DNS = "ec2-54-236-30-177.compute-1.amazonaws.com"
```

1. AWS -EC2

AWS – EC2 Dashboard

EC2 > Instances > i-039d4ccb41e486450

Instance summary for i-039d4ccb41e486450 [Info](#)

Updated less than a minute ago

[Refresh](#) [Connect](#) [Instance state ▼](#)

Instance ID i-039d4ccb41e486450	Public IPv4 address 54.236.30.177 open address	Private IPv4 addresses 172.31.60.15
Instance state Running	Public IPv4 DNS ec2-54-236-30-177.compute-1.amazonaws.com open address	Private IPv4 DNS ip-172-31-60-15.ec2.internal
Instance type t2.micro	Elastic IP addresses -	VPC ID vpc-32b0184f
AWS Compute Optimizer finding User: arn:aws:sts::490873502041:assumed-role/vocstartsoft/user1230632=ennio.maldonado@bts.tech is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * with an explicit deny Retry	IAM Role -	Subnet ID subnet-05f95a34