**TERRAFORM ASSIGN 3 (BUILD INFRASTRUCTURE)**

C:\Users\BHARATH\learn-terraform-aws-instance>dir

Volume in drive C is win 10 ssd

Volume Serial Number is F6AC-C147

Directory of C:\Users\BHARATH\learn-terraform-aws-instance

18-May-22 12:56 PM <DIR> .

18-May-22 12:56 PM <DIR> ..

0 File(s) 0 bytes

2 Dir(s) 63,541,862,400 bytes free

C:\Users\BHARATH\learn-terraform-aws-instance>type nul > main.tf

C:\Users\BHARATH\learn-terraform-aws-instance>dir

Volume in drive C is win 10 ssd

Volume Serial Number is F6AC-C147

Directory of C:\Users\BHARATH\learn-terraform-aws-instance

18-May-22 01:05 PM <DIR> .

18-May-22 01:05 PM <DIR> ..

18-May-22 01:05 PM 0 main.tf

1 File(s) 0 bytes

2 Dir(s) 63,541,653,504 bytes free

C:\Users\BHARATH\Downloads\terraform\_1.1.9\_windows\_amd64>aws configure

AWS Access Key ID [\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*XDV6]: AKIAXRMY26ZEP44EXDV6

AWS Secret Access Key [\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*OG8w]: 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

Default region name [None]:

Default output format [None]:

C:\Users\BHARATH\Downloads\terraform\_1.1.9\_windows\_amd64>terraform init

[0m[1mInitializing the backend...[0m

[0m[1mInitializing provider plugins...[0m

- Finding hashicorp/aws versions matching "~> 4.14.0"...

- Installing hashicorp/aws v4.14.0...

- Installed hashicorp/aws v4.14.0 (signed by HashiCorp)

Terraform has created a lock file [1m.terraform.lock.hcl[0m 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.[0m

[0m[1m[32mTerraform has been successfully initialized![0m[32m[0m

[0m[32m

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.[0m

C:\Users\BHARATH\Downloads\terraform\_1.1.9\_windows\_amd64>terraform apply

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

[32m+[0m create

[0m

Terraform will perform the following actions:

[1m # aws\_instance.app\_server[0m will be created[0m[0m

[0m [32m+[0m[0m resource "aws\_instance" "app\_server" {

[32m+[0m [0m[1m[0mami[0m[0m = "ami-079b5e5b3971bd10d"

[32m+[0m [0m[1m[0marn[0m[0m = (known after apply)

[32m+[0m [0m[1m[0massociate\_public\_ip\_address[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mavailability\_zone[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mcpu\_core\_count[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mcpu\_threads\_per\_core[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mdisable\_api\_termination[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mebs\_optimized[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mget\_password\_data[0m[0m = false

[32m+[0m [0m[1m[0mhost\_id[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mid[0m[0m = (known after apply)

[32m+[0m [0m[1m[0minstance\_initiated\_shutdown\_behavior[0m[0m = (known after apply)

[32m+[0m [0m[1m[0minstance\_state[0m[0m = (known after apply)

[32m+[0m [0m[1m[0minstance\_type[0m[0m = "t2.micro"

[32m+[0m [0m[1m[0mipv6\_address\_count[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mipv6\_addresses[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mkey\_name[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mmonitoring[0m[0m = (known after apply)

[32m+[0m [0m[1m[0moutpost\_arn[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mpassword\_data[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mplacement\_group[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mplacement\_partition\_number[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mprimary\_network\_interface\_id[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mprivate\_dns[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mprivate\_ip[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mpublic\_dns[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mpublic\_ip[0m[0m = (known after apply)

[32m+[0m [0m[1m[0msecondary\_private\_ips[0m[0m = (known after apply)

[32m+[0m [0m[1m[0msecurity\_groups[0m[0m = (known after apply)

[32m+[0m [0m[1m[0msource\_dest\_check[0m[0m = true

[32m+[0m [0m[1m[0msubnet\_id[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mtags[0m[0m = {

[32m+[0m [0m"Name" = "AWS instance"

}

[32m+[0m [0m[1m[0mtags\_all[0m[0m = {

[32m+[0m [0m"Name" = "AWS instance"

}

[32m+[0m [0m[1m[0mtenancy[0m[0m = (known after apply)

[32m+[0m [0m[1m[0muser\_data[0m[0m = (known after apply)

[32m+[0m [0m[1m[0muser\_data\_base64[0m[0m = (known after apply)

[32m+[0m [0m[1m[0muser\_data\_replace\_on\_change[0m[0m = false

[32m+[0m [0m[1m[0mvpc\_security\_group\_ids[0m[0m = (known after apply)

[32m+[0m [0mcapacity\_reservation\_specification {

[32m+[0m [0m[1m[0mcapacity\_reservation\_preference[0m[0m = (known after apply)

[32m+[0m [0mcapacity\_reservation\_target {

[32m+[0m [0m[1m[0mcapacity\_reservation\_id[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mcapacity\_reservation\_resource\_group\_arn[0m[0m = (known after apply)

}

}

[32m+[0m [0mebs\_block\_device {

[32m+[0m [0m[1m[0mdelete\_on\_termination[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mdevice\_name[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mencrypted[0m[0m = (known after apply)

[32m+[0m [0m[1m[0miops[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mkms\_key\_id[0m[0m = (known after apply)

[32m+[0m [0m[1m[0msnapshot\_id[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mtags[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mthroughput[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mvolume\_id[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mvolume\_size[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mvolume\_type[0m[0m = (known after apply)

}

[32m+[0m [0menclave\_options {

[32m+[0m [0m[1m[0menabled[0m[0m = (known after apply)

}

[32m+[0m [0mephemeral\_block\_device {

[32m+[0m [0m[1m[0mdevice\_name[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mno\_device[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mvirtual\_name[0m[0m = (known after apply)

}

[32m+[0m [0mmaintenance\_options {

[32m+[0m [0m[1m[0mauto\_recovery[0m[0m = (known after apply)

}

[32m+[0m [0mmetadata\_options {

[32m+[0m [0m[1m[0mhttp\_endpoint[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mhttp\_put\_response\_hop\_limit[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mhttp\_tokens[0m[0m = (known after apply)

[32m+[0m [0m[1m[0minstance\_metadata\_tags[0m[0m = (known after apply)

}

[32m+[0m [0mnetwork\_interface {

[32m+[0m [0m[1m[0mdelete\_on\_termination[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mdevice\_index[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mnetwork\_card\_index[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mnetwork\_interface\_id[0m[0m = (known after apply)

}

[32m+[0m [0mroot\_block\_device {

[32m+[0m [0m[1m[0mdelete\_on\_termination[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mdevice\_name[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mencrypted[0m[0m = (known after apply)

[32m+[0m [0m[1m[0miops[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mkms\_key\_id[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mtags[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mthroughput[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mvolume\_id[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mvolume\_size[0m[0m = (known after apply)

[32m+[0m [0m[1m[0mvolume\_type[0m[0m = (known after apply)

}

}

[0m[1mPlan:[0m 1 to add, 0 to change, 0 to destroy.

[0m[0m[1m

Do you want to perform these actions?[0m

Terraform will perform the actions described above.

Only 'yes' will be accepted to approve.

[1mEnter a value:[0m [0myes

[0m[1maws\_instance.app\_server: Creating...[0m[0m

[0m[1maws\_instance.app\_server: Still creating... [10s elapsed][0m[0m

[0m[1maws\_instance.app\_server: Still creating... [20s elapsed][0m[0m

[0m[1maws\_instance.app\_server: Still creating... [30s elapsed][0m[0m

[0m[1maws\_instance.app\_server: Creation complete after 32s [id=i-080be01ead6aa5123][0m

[0m[1m[32m

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

[0m

**Main.tf**

terraform {

required\_providers {

aws = {

source = "hashicorp/aws"

version = "~> 4.14.0"

}

}

required\_version = ">= 0.14.9"

}

provider "aws" {

profile = "default"

region = "ap-south-1"

}

resource "aws\_instance" "app\_server" {

ami = "ami-079b5e5b3971bd10d"

instance\_type = "t2.micro"

tags = {

Name = "AWS instance"

}

}

**RESULT:**

