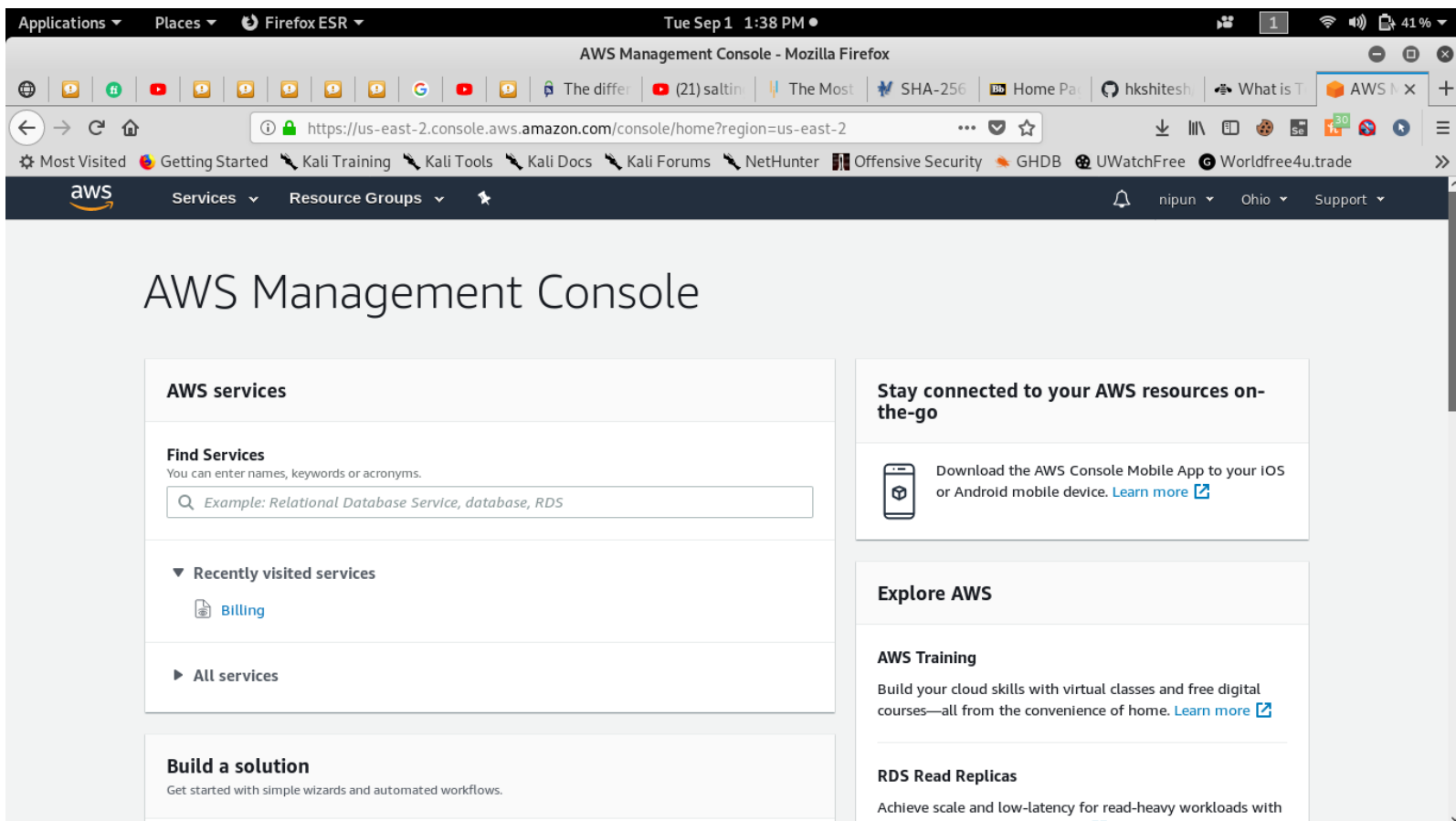


NIPUN SINGAL
R171218069
500069052

CICD LAB FILE

EXPERIMENT-9

AIM: Using Terraform for creating the instances on AWS



Applications ▾Places ▾Firefox ESR ▾

Tue Sep 1 1:48 PM •

1

49 % ▾

IAM Management Console - Mozilla Firefox

https://console.aws.amazon.com/iam/home?#/users

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aws

Services ▾Resource Groups ▾

Support ▾

Identity and Access Management (IAM)

Dashboard

Access management

Groups

Users

Roles

Policies

Identity providers

Account settings

Access reports

Access analyzer

Archive rules

Analyzers

Settings

Credential report

Add userDelete user

Find users by username or access key

Showing 1 result

| | User name ▾ | Groups | Access key age | Password age | Last activity | MFA |
|--------------------------|----------------|--------|----------------|--------------|---------------|-------------|
| <input type="checkbox"/> | terrafoam_user | None | None | None | None | Not enabled |

FeedbackEnglish (US)

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Applications ▾Places ▾Text Editor ▾

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1

83 % ▾

Open ▾

~/Downloads/terraform_0.13.1_linux_amd64

Save

instance.tf

*Untitled Document 1

instance.tf

```
provider "aws" {  
  
  access_key = "AKIAT0QJA2A2BWRK7F30"  
  secret_key = "OSd02yV5Kjb00mFqnKh0VNRXqxrt1sBdnkndz+dr"  
  region     = "ap-south-1"  
}  
  
resource "aws_instance" "example" {  
  ami           = "ami-0ebc1ac48dfd14136"  
  instance_type = "t2.micro"  
}
```

Saving file "/root/Downloads/terraform_0.13.1_linux_amd64/instance.tf"...

Plain Text ▾Tab Width: 8 ▾Ln 4, Col 9 ▾INS

Applications ▾Places ▾Firefox ESR ▾

Tue Sep 1 3:15 PM •

Instances | EC2 Management Console - Mozilla Firefox

https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:~:topnav=ec2%3Fregion%3Dap-south-1%26page%3D1

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New EC2 ExperienceTell us what you think

EC2 Dashboard **New**

Events **New**

Tags

Limits

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts **New**

Capacity Reservations

▼ Images

AMIs

Launch Instance ▾ConnectActions ▾

Filter by tags and attributes or search by keyword

| <input type="checkbox"/> | Name ▾ | Instance ID ▴ | Instance Type ▾ | Availability Zone ▾ | Instance State ▾ | Status Checks ▾ | Alarm Status | Public DNS (IPv4) ▾ |
|-------------------------------------|--------|---------------------|-----------------|---------------------|------------------|-----------------|--------------|--|
| <input checked="" type="checkbox"/> | | i-017fdd85f66150f1a | t2.micro | ap-south-1a | running | 2/2 checks ... | None | ec2-3-6-39-88.ap-south-1.compute.amazonaws.com |

Instance: i-017fdd85f66150f1aPublic DNS: ec2-3-6-39-88.ap-south-1.compute.amazonaws.com

DescriptionStatus ChecksMonitoringTags

| | | | |
|----------------|---------------------|-------------------|--|
| Instance ID | i-017fdd85f66150f1a | Public DNS (IPv4) | ec2-3-6-39-88.ap-south-1.compute.amazonaws.com |
| Instance state | running | IPv4 Public IP | 3.6.39.88 |
| Instance type | t2.micro | IPv6 IPs | - |

FeedbackEnglish (US)

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Applications ▾Places ▾Firefox ESR ▾

Tue Sep 1 3:16 PM •

Instances | EC2 Management Console - Mozilla Firefox

https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:~:topnav=ec2%3Fregion%3Dap-south-1%26page%3D1

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New EC2 ExperienceTell us what you think

EC2 Dashboard **New**

Events **New**

Tags

Limits

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts **New**

Capacity Reservations

▼ Images

AMIs

Launch Instance ▾ConnectActions ▾

Filter by tags and attributes or search by keyword

| <input type="checkbox"/> | Name ▾ | Instance ID ▴ | Instance Type ▾ | Availability Zone ▾ | Instance State ▾ | Status Checks ▾ | Alarm Status | Public DNS (IPv4) ▾ |
|-------------------------------------|--------|---------------------|-----------------|---------------------|------------------|-----------------|--------------|---------------------|
| <input checked="" type="checkbox"/> | | i-017fdd85f66150f1a | t2.micro | ap-south-1a | terminated | | None | |

Instance: i-017fdd85f66150f1aPublic DNS: -

DescriptionStatus ChecksMonitoringTags

| | | | |
|----------------|---------------------|-------------------|---|
| Instance ID | i-017fdd85f66150f1a | Public DNS (IPv4) | - |
| Instance state | terminated | IPv4 Public IP | - |
| Instance type | t2.micro | IPv6 IPs | - |

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```
Applications ▾ Places ▾ Terminal ▾ Tue Sep 1 3:17 PM ●
root@anonymous: ~/Downloads/terraform_0.13.1_linux_amd64

root@anonymous:~/Downloads/terraform_0.13.1_linux_amd64# ./terraform init
Initializing the backend...
https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Home:
Initializing provider plugins...
- Using previously-installed hashicorp/aws v3.4.0

The following providers do not have any version constraints in configuration,
so the latest version was installed.

To prevent automatic upgrades to new major versions that may contain breaking
changes, we recommend adding version constraints in a required providers block
in your configuration, with the constraint strings suggested below.

* hashicorp/aws: version = "~> 3.4.0"

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.
root@anonymous:~/Downloads/terraform_0.13.1_linux_amd64# ./terraform plan
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.

An execution plan has been generated and is shown below.
Resource actions are indicated with the following symbols:
+ create
- destroy
~ update in-place
= no action
~ refresh-only

Terraform will perform the following actions:
```

```
Applications ▾ Places ▾ Terminal ▾ Tue Sep 1 3:17 PM ●
root@anonymous: ~/Downloads/terraform_0.13.1_linux_amd64

+ volume_id = (known after apply)
+ volume_size = (known after apply)
+ volume_type = (known after apply)

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

Note: You didn't specify an "-out" parameter to save this plan, so Terraform
can't guarantee that exactly these actions will be performed if
"terraform apply" is subsequently run.

You are using the following Amazon EC2 resources in the Asia Pacific (Mumbai) Region:

root@anonymous:~/Downloads/terraform_0.13.1_linux_amd64# ./terraform apply
An execution plan has been generated and is shown below.
Resource actions are indicated with the following symbols:
+ create
- destroy
~ update in-place
= no action
~ refresh-only

Terraform will perform the following actions:

# aws_instance.example will be created
+ resource "aws_instance" "example" {
  ami           = "ami-0ebc1ac48dfd14136"
  instance_type = "t2.micro"
  ...
}

+ aws_instance.example will be created
+ resource "aws_instance" "example" {
  ami           = "ami-0ebc1ac48dfd14136"
  instance_type = "t2.micro"
  ...
}
```

Applications ▾ Places ▾ Terminal ▾ Tue Sep 1 3:17 PM ●

root@anonymous: ~/Downloads/terraform_0.13.1_linux_amd64

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.

☐ New EC2 Experience

Enter a value: yes

aws_instance.example: Creating...

aws_instance.example: Still creating... [10s elapsed]

aws_instance.example: Still creating... [20s elapsed]

aws_instance.example: Creation complete after 25s [id=i-017fdd85f66150f1a]

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

root@anonymous: ~/Downloads/terraform_0.13.1_linux_amd64# ./terraform destroy

aws_instance.example: Refreshing state... [id=i-017fdd85f66150f1a]

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

Terraform will perform the following actions:

```
# aws_instance.example will be destroyed
- resource "aws_instance" "example" {
  ami           = "ami-0ebc1ac48dfd14136" -> null
  arn           = "arn:aws:ec2:ap-south-1:237315870772:instance/i-017fdd85f66150f1a" -> null
  associate_public_ip_address = true -> null
  availability_zone = "ap-south-1a" -> null
  cpu_core_count    = 1 -> null
  cpu_threads_per_core = 1 -> null
  disable_api_termination = false -> null
  ebs_optimized      = false -> null
  get_password_data   = false -> null
  hibernation         = false -> null
  id                 = "i-017fdd85f66150f1a" -> null
```

Resources

| Resource Group | Count | Details |
|------------------|-------|---------|
| Elastic IPs | 0 | |
| Snapshots | 0 | |
| Load balancers | 0 | |
| Security groups | 1 | |
| Volumes | 0 | |
| Key pairs | 0 | |
| Placement groups | 0 | |

Account attributes

- Supported platforms
- VPC
- Default VPC
- vpc-9a29cff1
- Settings
- EBS encryption
- Zones
- Default credit specification
- Console experiments

Explore AWS

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root@anonymous: ~/Downloads/terraform_0.13.1_linux_amd64

```
- credit_specification {
- cpu_credits = "standard" -> null
}

- metadata_options {
- http_endpoint = "enabled" -> null
- http_put_response_hop_limit = 1 -> null
- http_tokens = "optional" -> null
}
```

aws_instance.example: Destroying... [id=i-017fdd85f66150f1a]

aws_instance.example: Still destroying... [id=i-017fdd85f66150f1a, 10s elapsed]

aws_instance.example: Still destroying... [id=i-017fdd85f66150f1a, 20s elapsed]

aws_instance.example: Still destroying... [id=i-017fdd85f66150f1a, 30s elapsed]

aws_instance.example: Destruction complete after 31s

Destroy complete! Resources: 1 destroyed.

root@anonymous: ~/Downloads/terraform_0.13.1_linux_amd64#

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

Do you really want to destroy all resources?
Terraform will destroy all your managed infrastructure, as shown above.
There is no undo. Only 'yes' will be accepted to confirm.

Enter a value: yes

Resources

| Resource Group | Count | Details |
|------------------|-------|---------|
| Elastic IPs | 0 | |
| Snapshots | 0 | |
| Load balancers | 0 | |
| Security groups | 1 | |
| Volumes | 0 | |
| Key pairs | 0 | |
| Placement groups | 0 | |

Account attributes

- Supported platforms
- VPC
- Default VPC
- vpc-9a29cff1
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- Default credit specification
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