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Roll no-10
D15B

Creating S3 Bucket using terraform

Prerequisite:

- 1) Install Atom Editor for Writing the Scripts from <https://atom.io/>
- 2) Must have an AWS Access Key ID and Secret Access Key

Step 1: Write a Terraform Script in Atom for creating S3 Bucket on Amazon AWS

```
s3.tf
1 resource "aws_s3_bucket" "shrustic" {
2     bucket = "shrustid"
3
4     tags = {
5         Name      = "My Bucket"
6         Environment = "Dev"
7     }
8 }
```

Create a new provider.tf file and write the following contents into it.

```
Welcome  s3.tf  provider.tf
provider.tf
1 provider "aws" {
2     access_key= "ASIASN2K4A7OOR75NLWJ"
3     secret_key="ycT+D4TLr8GwjCVnpwrPUmzQogPoqXeNU4EIQBDK"
4     region "ap-south-1"
5 }
```

Save both the files in same directory Terraform_Scripts/S3

Step 2: Open Command Prompt and go to Terraform_Script\S3 directory where our .tf files are stored

```
Command Prompt

C:\>cd terraform_scripts

C:\Terraform_Scripts>cd s3

C:\Terraform_Scripts\S3>dir
Volume in drive C has no label.
Volume Serial Number is 2E74-E8C2

Directory of C:\Terraform_Scripts\S3

08/11/2022  09:01 AM    <DIR>          .
08/11/2022  09:01 AM    <DIR>          ..
08/11/2022  09:05 AM                135 provider.tf
08/11/2022  09:05 AM                151 s3.tf
                2 File(s)                286 bytes
                2 Dir(s)  133,766,430,720 bytes free

C:\Terraform_Scripts\S3>
```

Step 3: Execute Terraform Init command to initialize the resources

```
C:\Terraform_Scripts\S3>terraform init

Initializing the backend...

Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v4.25.0...
- Installed hashicorp/aws v4.25.0 (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.

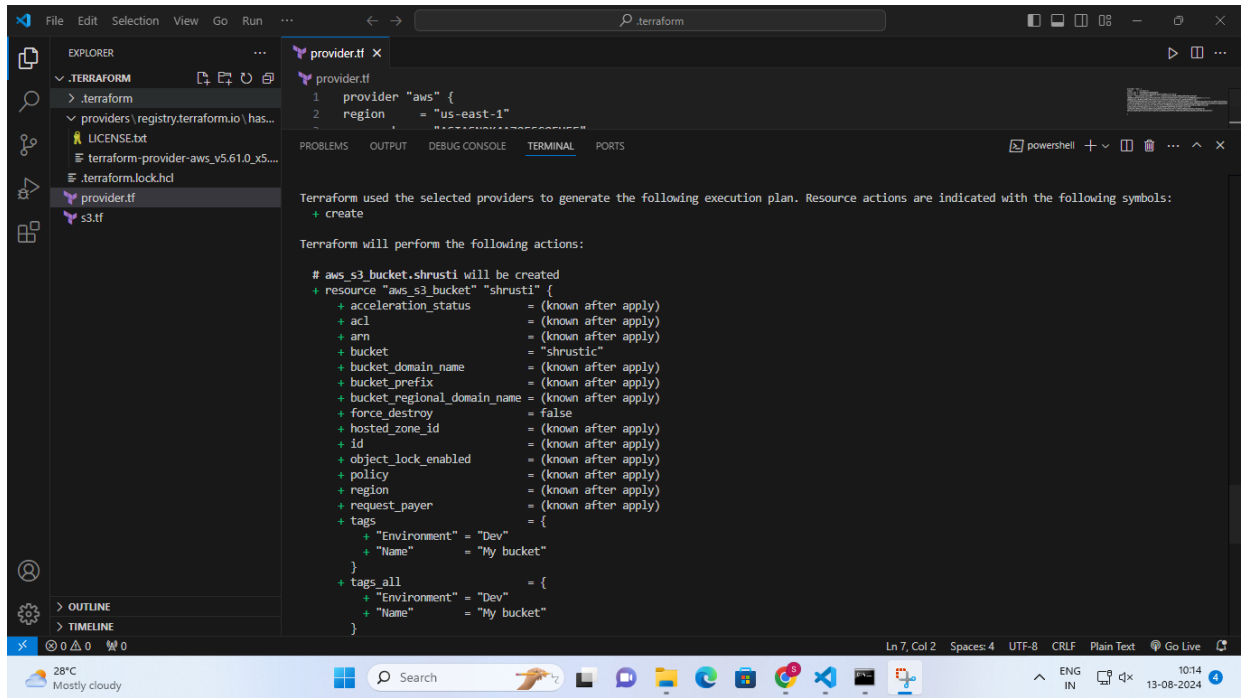
Terraform has been successfully initialized!

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.

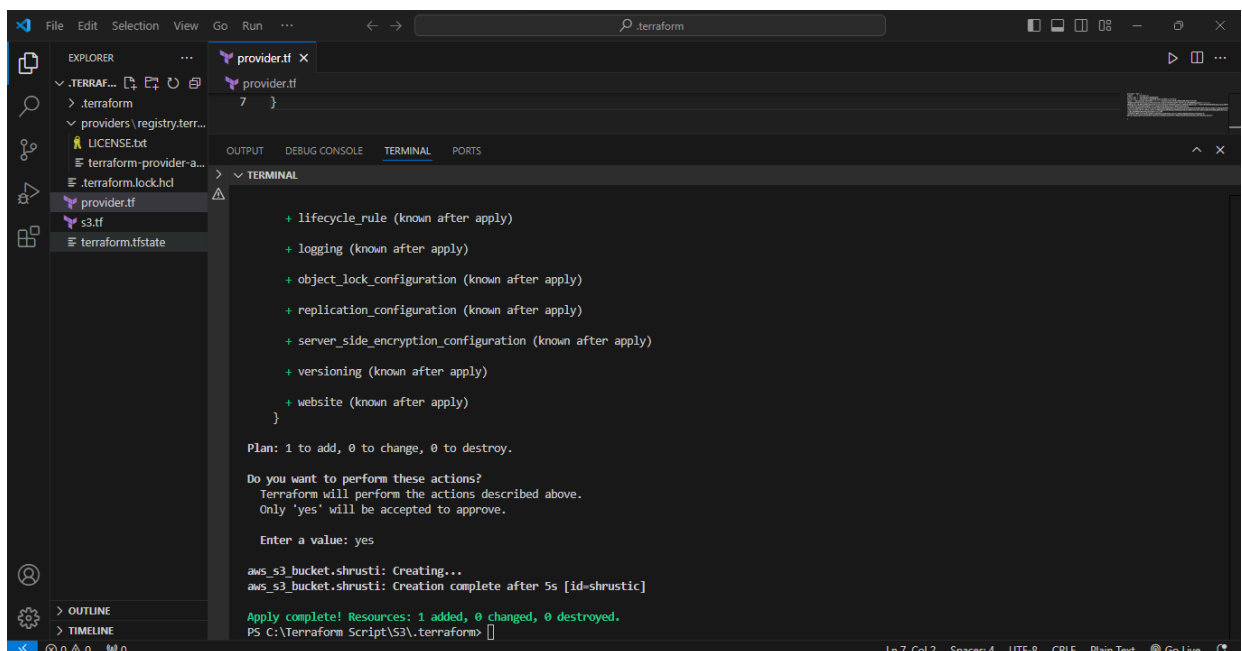
If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.

C:\Terraform_Scripts\S3>
```

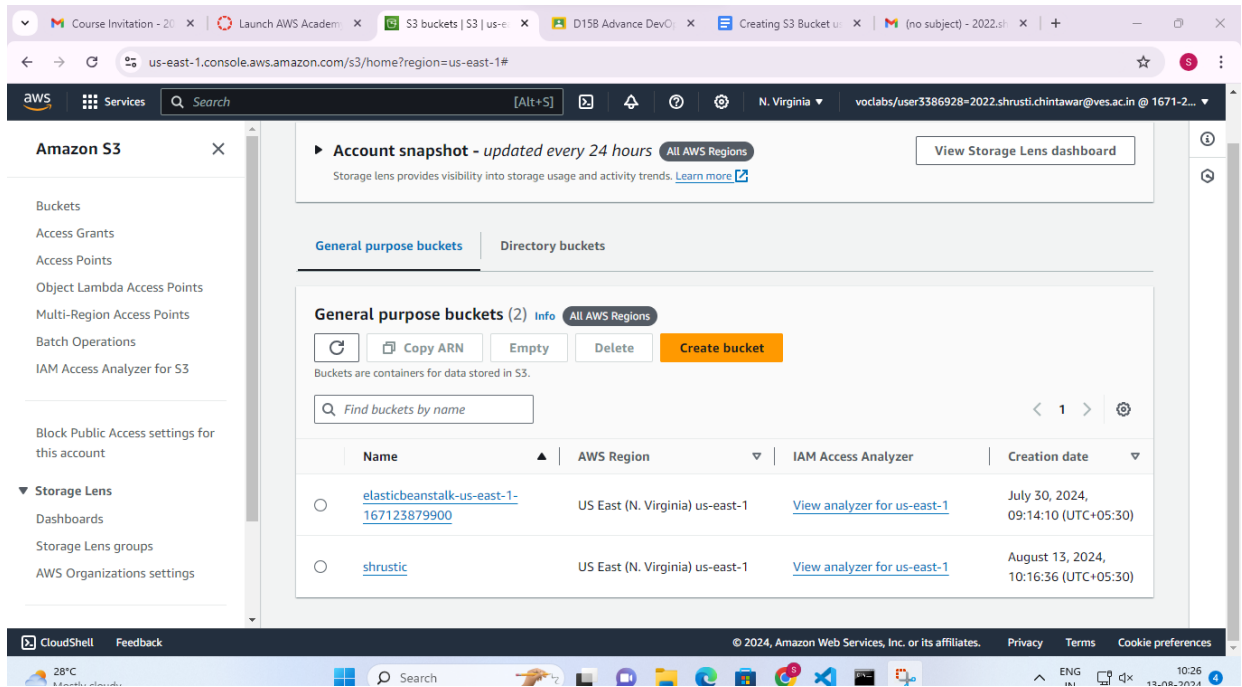
Step 4: Execute Terraform plan to see the available resources



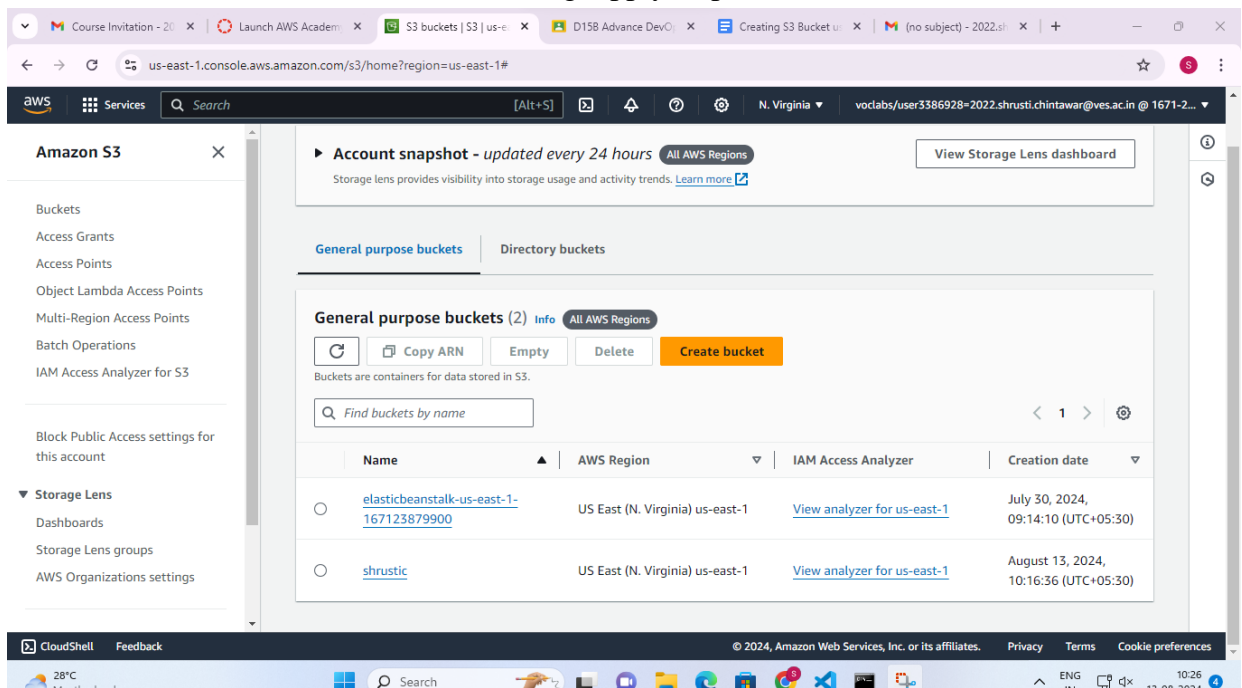
Step 5: Execute Terraform apply to apply the configuration, which will automatically create an S3 bucket based on our configuration.



AWS S3bucket dashboard, Before Executing Apply command:



AWS S3 Bucket dashboard, After Executing Apply step:



Step 6: Execute Terraform destroy to delete the configuration, which will automatically delete an EC2 instance

us-east-1.console.aws.amazon.com/s3/buckets?region=us-east-1

ServicesSearch[Alt+S]

N. Virginiavoclabs/user3386928+2022.shruti.chintawar@ves.ac.in @ 1671-2...

Amazon S3

Buckets

Access Grants

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

Storage Lens reports

Amazon S3 > Buckets

Account snapshot - updated every 24 hoursAll AWS RegionsView Storage Lens dashboard

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

General purpose bucketsDirectory buckets

General purpose buckets (2)InfoAll AWS RegionsCopy ARNEmptyDeleteCreate bucket

Buckets are containers for data stored in S3.

Find buckets by name

Name	AWS Region	IAM Access Analyzer	Creation date
elasticbeanstalk-us-east-1-167123879900	US East (N. Virginia) us-east-1	View analyzer for us-east-1	July 30, 2024, 09:14:10 (UTC+05:30)