



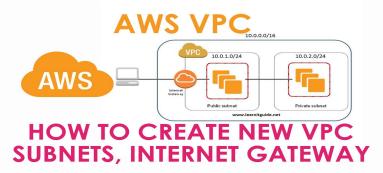




HashiCorp

Terraform





Task-2

Perform the task-1 using EFS instead of EBS service on the AWS as, ---->>> Create/launch Application using Terraform

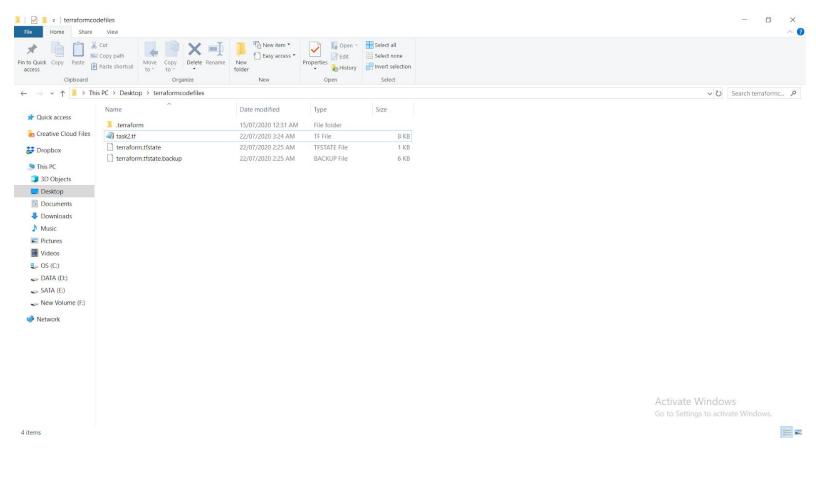
- 1. Create Security group which allow the port 80.
- 2. Launch EC2 instance.
- 3. In this Ec2 instance use the existing key or provided key and security group which we have created in step 1.
- 4. Launch one Volume using the EFS service and attach it in your vpc, then mount that volume into /var/www/html
- 5. Developer have uploded the code into github repo also the repo has some images.
- 6. Copy the github repo code into /var/www/html
- 7. Create S3 bucket, and copy/deploy the images from github repo into the s3 bucket and change the permission to public readable.
- 8 Create a Cloudfront using s3 bucket(which contains images) and use the Cloudfront URL to update in code in /var/www/html

Optional

1) Those who are familiar with jenkins or are in devops AL have to integrate jenkins in this task wherever you feel can be integrated

```
C:\Users\Asus>
```

```
Command Prompt
                                                         task2.tf - Notepad
                                                                                                                                                 П
Microsoft Windows [Version 10.0.18362.900]
                                                         File Edit Format View Help
(c) 2019 Microsoft Corporation. All rights reserved.
                                                         provider "aws" {
= "ap-south-1"
                                                           region
                                                          profile = "mypratik"
Default region name [ap-south-1]:
Default output format [json]:
                                                         #Creating Key
::\Users\Asus>cd desktop
:\Users\Asus\Desktop>cd terraformcodefiles
                                                         resource "tls private key" "key form" {
                                                           algorithm = "RSA"
:\Users\Asus\Desktop\terraformcodefiles>notepad task2.tf
:\Users\Asus\Desktop\terraformcodefiles>
                                                         resource "aws_key_pair" "task2_key" {
                                                           key name = "mykey1112"
                                                           public_key = tls_private_key.key_form.public_key_openssh
                                                         resource "aws_vpc" "pratik_vpc" {
                                                           cidr block = "10.0.0.0/16"
                                                           instance tenancy="default"
                                                           enable dns hostnames = true
                                                           tags = {
                                                             Name = "pratik_vpc"
                                                         resource "aws_subnet" "pratik_subnet" {
                                                                              = aws vpc.myvpc.id
                                                           availability_zone = "ap-south-1a"
                                                           cidr block
                                                                              = "10.0.1.0/24"
                                                           map public ip on launch = true
                                                           tags = {
                                                             Name = "pratik_subnet"
                                                           }
```



```
task2.tf - Notepad
                                                                                                                                                                                                                                П
Microsoft Windows [Version 10.0.18362.900]
(c) 2019 Microsoft Corporation. All rights reserved.
                                                                                        File Edit Format View Help
                                                                                        provider "aws" {
region = "ap-south-1"
                                                                                                           = "mypratik"
                                                                                          profile
                                                                                        #Creating Key
:\Users\Asus>cd desktop
                                                                                        resource "tls_private_key" "key_form" {
                                                                                          algorithm = "RSA"
:\Users\Asus\Desktop\terraformcodefiles>notepad task2.tf
 :\Users\Asus\Desktop\terraformcodefiles>terraform init
                                                                                        resource "aws_key_pair" "task2_key" {
   key_name = "mykey1112"
nitializing the backend...
Initializing provider plugins...
- Checking for available provider plugins...
- Downloading plugin for provider "tls" (hashicorp/tls) 2.1.1...
- Downloading plugin for provider "null" (hashicorp/null) 2.1.2...
                                                                                           public_key = tls_private_key.key_form.public_key_openssh
The following providers do not have any version constraints in configuration, so the latest version was installed.
                                                                                        resource "aws_vpc" "pratik_vpc" {
    cidr_block = "10.0.0.0/16"
To prevent automatic upgrades to new major versions that may contain breaking changes, it is recommended to add version = "..." constraints to the corresponding provider blocks in configuration, with the constraint strings suggested below.
                                                                                           instance_tenancy="default"
                                                                                           enable dns hostnames = true
                                                                                           tags = {
                                                                                              Name = "pratik vpc"
 provider.aws: version = "~> 2.70"
provider.null: version = "~> 2.1"
provider.tls: version = "~> 2.1"
                                                                                        resource "aws_subnet" "pratik_subnet" {
                                                                                                                 = aws_vpc.myvpc.id
                                                                                           vpc_id
                                                                                            availability_zone = "ap-south-1a"
                                                                                                                   = "10.0.1.0/24"
                                                                                           cidr block
                                                                                           map_public_ip_on_launch = true
                                                                                           tags = {
                                                                                              Name = "pratik subnet"
 :\Users\Asus\Desktop\terraformcodefiles>
```

```
College Audus Datatop terraformocodef [lesterraform validate maces in the configuration is valid.

College Audus Desitop terraformocodef [lesterraform apply to the configuration is valid.

College Audus Desitop terraformocodef [lesterraform apply to the configuration is valid.

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```

C:\Users\Asus\Desktop\terraformcodefiles>terraform validate Success! The configuration is valid.

```
O
Command Prompt
           # aws_efs_file_system.myefs will be creat
+ resource "aws_efs_file_system" "myefs"
                                                                                                                                                                            creation_token
dns_name
encrypted
                                                          kms_key_id
                                                          performance mode =
                                                        reference_name = ()
tags = {
    + "Name" = "myefs"
                                                          throughput_mode = "bursting"
             # aws_efs_file_system_policy.policy will be created
+ resource "aws_efs_file_system_policy" "policy" {
+ file_system_id = (known after apply)
+ id = (known after apply)
+ policy = (known after apply)
         # aws_efs_mount_target.mymount will be created

* resource "aws_efs_mount_target" "mymount" {

* availability_zone_id = (known after apply)

* availability_zone_name = (known after apply)

* dns_name = (known after apply)

* file_system_arn = (known after apply)

* id = (known after apply)

* id = (known after apply)

* ip_address = (known after apply)

* mount_target_dns_name = (known after apply)

* owner_id = (known after apply)

* security_groups = (known after apply)

* subnet_id = (known after apply)

}
             # aws_instance.myin will be created
+ resource "aws_instance" "myin" {
                                                        ami
                                                                                                                                                                                                                                                                           = "ami-00b494a3f139ba61f"
                                                                                                                                                                                                                                                                           = "amm_-000494a3f139ba"
= (known after apply)
= (known after apply)
= "ap-south-1a"
= (known after apply)
                                                      arn = associate_public_ip_address = availability_zone cpu_core_count = cpu_threads_per_core get_password_data = bost_id = id = id = isd = 
                                                                                                                                                                                                                                                                           = (known after apply)
                                                                                                                                                                                                                                                                           = false
                                                                                                                                                                                                                                                                                        (known after apply)
(known after apply)
```

```
# aws_instance.myin will be created
                                "aws_instance
      resource
                                                                            "myin"
                ami
                                                                                                    = "ami-00b494a3f139ba61f"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "am1-00b494a3f139ba6
(known after apply)
(known after apply)
"ap-south-1a"
(known after apply)
               arn = associate_public_ip_address = availability_zone cpu_core_count = cpu_threads_per_core get_password_data = bost_id = st__
                                                                                                         (known after apply)
                                                                                                         false
(known after apply)
                                                                                                  = (known after apply)
= (known after apply)
= "t2.micro"
= (known after apply)
= (known after apply)
= "mykey1112"
- (known after apply)
               id
instance_state
instance_type
ipv6_address_count
ipv6_addresses
key_name
network_interface_id
outpost_ern
password_data
nlacement_group
                                                                                                  = (known after apply)
= (known after apply)
= (known after apply)
                                                                                                  = (known after apply)
= (known after apply)
= (known after apply)
= (known after apply)
= (known after apply)
= (known after apply)
= (known after apply)
                placement group = primary_network_interface_id = private_dns =
                private_ip
                public_dns
public_ip
                security_groups
source_dest_check
subnet_id
                                                                                                         (known after apply)
                                                                                                     = (known after apply)
                tags
+ "Name" = "myterraOS"
                tenancy
volume_tags
vpc_security_group_ids
                                                                                                  = (known after apply)
= (known after apply)
= (known after apply)
                         _block_device {
    delete_on_termination = (known after apply)
    device_name = (known after apply)
    ions = (known after apply)
    ions = (known after apply)
    ions = (known after apply)
    snapshot_id = (known after apply)
    volume_id = (known after apply)
    volume_size = (known after apply)
    volume_type = (known after apply)
                ephemeral_block_device {
                           device_name = (known after apply)
no_device = (known after apply)
```

o

```
# mes, security_group, says_will be created

- resource "mes, security_group" "most "{

- resource "mes, security_group" "most "{

- v.o.b.O.Ov", "

- v.o.b.Ov", "

- v.o.b.Ov", "

- v.o.b.O.Ov", "

- v.o.b.Ov", "

- v.o.b
```

```
o
Command Prompt
                          cidr_blocks
                                   "0.0.0.0/0"
                                                           "SSH from VPC"
                           description
                          description = 35n
from_port = 22
ipv6_cidr_blocks = []
prefix_list_ids = []
protocol = "tcp"
security_groups = []
self = false
                                                        = 22
             name = "mysg"
owner_id = (known after apply)
revoke_rules_on_delete = false
             tags
+ "Name" = "mysecuritygroup"
             vpc_id
                                                    = (known after apply)
        ws_subnet.pratik_subnet will be created esource "aws_subnet" "pratik_subnet" {
                                                                    :" {
= (known after apply)
             arn
             arn = (known after
assign_ipv6_address_on_creation = false
availability_zone = "ap-south-1a"
availability_zone_id = (known after
                                                                    = (known after apply)
= "10.0.1.0/24"
                                                                     = (known after apply)
             ipv6_cidr_block
ipv6_cidr_block_association_id
                                                                       (known after apply)
(known after apply)
             map public ip on launch
                                                                     = true
             owner_id
                                                                    = (known after apply)
             tags
+ "Name" = "pratik_subnet"
                                                                    = (known after apply)
   # aws_vpc.pratik_vpc will be created
+ resource "aws_vpc" "pratik_vpc" {
             arn = (known after apply)
assign_generated_ipv6_cidr_block = false
cidr_block = "10.0.0.0/16"
                                                                     = (known after apply)
= (known after apply)
= (known after apply)
             default_network_acl_id
default_route_table_id
             default_security_group_id
dhcp_options_id
enable_classiclink
```

```
null_resource.null_vol_attach (remote-exec): Installed size: 62 M
      resource.null_vol_attach (remote-exec): Downloading packages:
    resource.null_vol_attach (remote-exec): (1/21): amazon-efs
                                                                                    33 kB
                                                                                              00:00
     resource.null_vol_attach (remote-exec): (2/21): apr-1.6.3-
                                                                                   118 kB
                                                                                              00:00
null_resource.null_vol_attach (remote-exec): (3/21): apr-util-b
                                                                                   19 kB
                                                                                              00:00
null_resource.null_vol_attach (remote-exec): (4/21): apr-util-1
null_resource.null_vol_attach (remote-exec): (5/21): generic-lo
                                                                                    99 kB
                                                                                              00:00
                                                                                   19 kB
                                                                                              69:69
     resource.null_vol_attach (remote-exec): (6/21): git-2.23.3
resource.null_vol_attach (remote-exec): (7/21): git-core-d
                                                                                  135 kB
                                                                                              60:00
                                                                                  2.4 MB
                                                                                              00:00
                                                                  git-core-2
null_resource.null_vol_attach (remote-exec): (8/21):
                                                                                  5.0 MB
                                                                                              00:00
      resource.null_vol_attach (remote-exec): (9/21): httpd-2.4.
                                                                                  1.3 MB
                                                                                              60:00
     _resource.null_vol_attach (remote-exec): (10/21): httpd-fil
                                                                                    23 kB
                                                                                              00:00
      resource.null_vol_attach (remote-exec): (11/21): httpd-too
                                                                                    B7 kB
                                                                                              00:00
    resource.null_vol_attach (remote-exec): (12/21): libzip010
                                                                                    30 kB
                                                                                              00:00
null_resource.null_vol_attach (remote-exec): (13/21): mailcap-2
null_resource.null_vol_attach (remote-exec): (14/21): mod_http2
                                                                                    31
                                                                                              00:00
                                                                                  146 kB
                                                                                              00:00
32 kB
                                                                                              00:00
                                                                                    47 kB
                                                                                              00:00
null_resource.null_vol_attach (remote-exec): (17/21): perl-Term
                                                                                   31 kB
                                                                                              00:00
      resource.null_vol_attach (remote-exec): (18/21): php-5.4.1
                                                                                  1.4 MB
                                                                                              00:00
 ull_resource.null_vol_attach (remote-exec): (19/21): php-commo
                                                                                  563 kg
                                                                                              00:00
     resource.null_vol_attach (remote-exec): (20/21): stunnel-4
                                                                                  149 kB
                                                                                              88:88
 null_resource.null_vol_attach (remote-exec): (21/21): php-cli-5
                                                                                              00:00
     resource.null_vol_attach (remote-exec):
 ull_resource.null_vol_attach (remote-exec): Total
                                                                       38 MB/s | 14 MB 00:00
null_resource.null_vol_attach (remote-exec): Running transaction check
null_resource.null_vol_attach (remote-exec): Running transaction test
     _resource.null_vol_attach (remote-exec). Nonling
_resource.null_vol_attach (remote-exec): Transaction test succeeded
_resource.null_vol_attach (remote-exec): Running transaction
_resource.null_vol_attach (remote-exec): Installing: apr-1.6 [
_resource.null_vol_attach (remote-exec): Installing: apr-1.6 [##
                                                                                                    1/21
null_resource.null_vol_attach (remote-exec):
                                                                                     [####
null_resource.null_vol_attach (remote-exec):
                                                          Installing : apr-1.6
                                                                                     [######
      resource.null_vol_attach (remote-exec):
                                                           Installing
                                                                           apr-1.6
                                                                                                    1/21
 ull_resource.null_vol_attach (remote-exec):
                                                           Installing : apr-1.6 [###### ]
                                                                                                    1/21
null_resource.null_vol_attach (remote-exec):
null_resource.null_vol_attach (remote-exec):
                                                           Installing : apr-1.6.3-5.amzn
                                                                                                     1/21
                                                           Installing : apr-uti [
                                                                                                    2/21
null_resource.null_vol_attach (remote-exec):
null_resource.null_vol_attach (remote-exec):
                                                           Installing :
                                                                           apr-uti [######
                                                                                                    2/21
                                                           Installing
                                                                        : apr-util-bdb-1.6
                                                                                                     2/21
null_resource.null_vol_attach (remote-exec):
null_resource.null_vol_attach (remote-exec):
                                                           Installing :
                                                                           apr-uti
                                                                                                     3/21
                                                           Installing :
                                                                                      11:01
                                                                                                     3/21
                                                                           apr-uti
                                                           Installing
null_resource.null_vol_attach (remote-exec):
                                                                           apr-uti
                                                                                      ####
                                                                                                    3/21
null_resource.null_vol_attach (remote-exec):
                                                           Installing
                                                                           apr-uti
                                                                                     [#####
                                                                                                    3/21
null_resource.null_vol_attach (remote-exec):
                                                           Installing :
                                                                           apr-uti
                                                                                     [######
                                                                                                    3/21
```

```
Apply complete! Resources: 18 added, 0 changed, 0 destroyed.

Outputs:

cloudfront_ip_addr = d3unb4s4rfnx5d.cloudfront.net
```

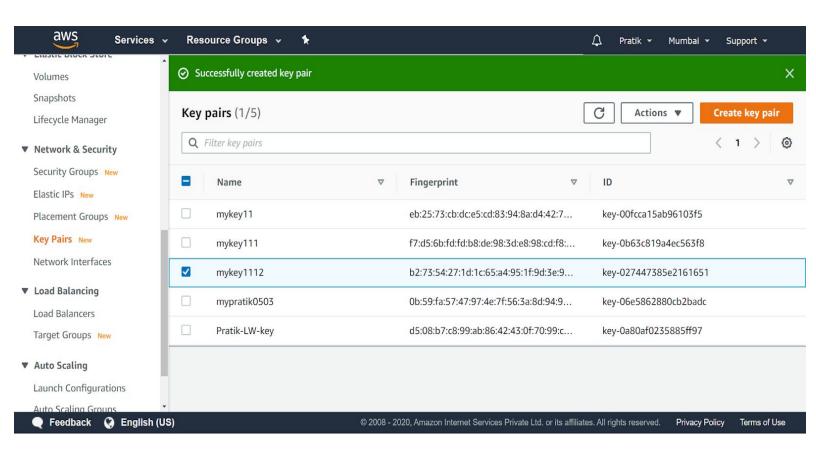
```
#Terraform Code:-
```

```
provider "aws" {
  region = "ap-south-1"
  profile = "mypratik"
}
```

#Creating Key

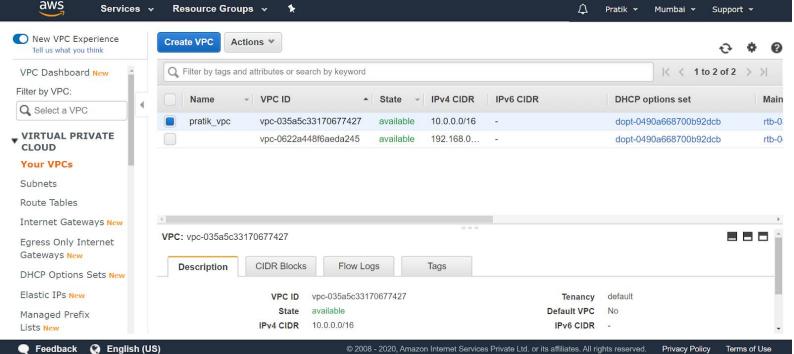
```
resource "tls_private_key" "key_form" {
  algorithm = "RSA"
}

resource "aws_key_pair" "task2_key" {
  key_name = "mykey1112"
  public_key = tls_private_key.key_form.public_key_openssh
}
```

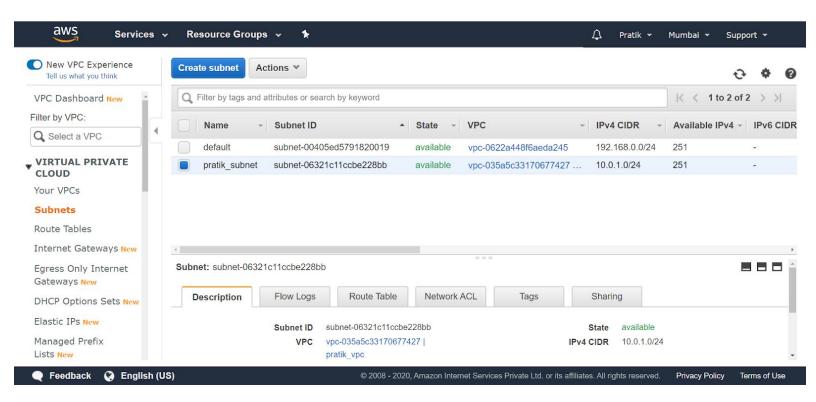


#Creating Virtual Private Cloud

```
resource "aws_vpc" "pratik_vpc" {
 cidr block = "10.0.0.0/16"
 instance_tenancy="default"
 enable_dns_hostnames = true
 tags = {
  Name = "pratik_vpc"
```

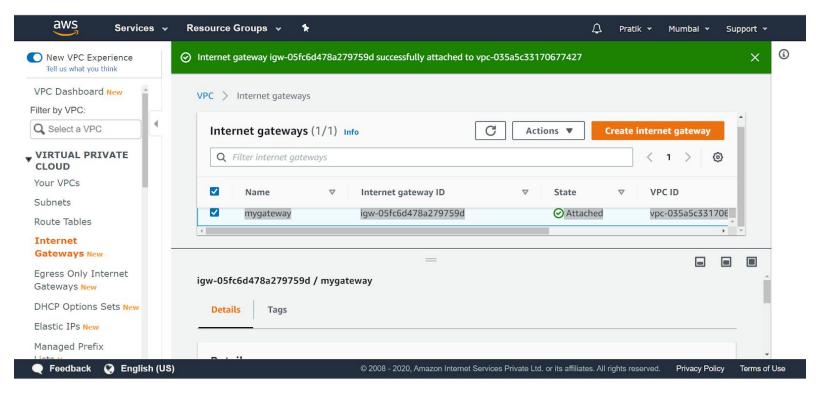


#Creating Subnet



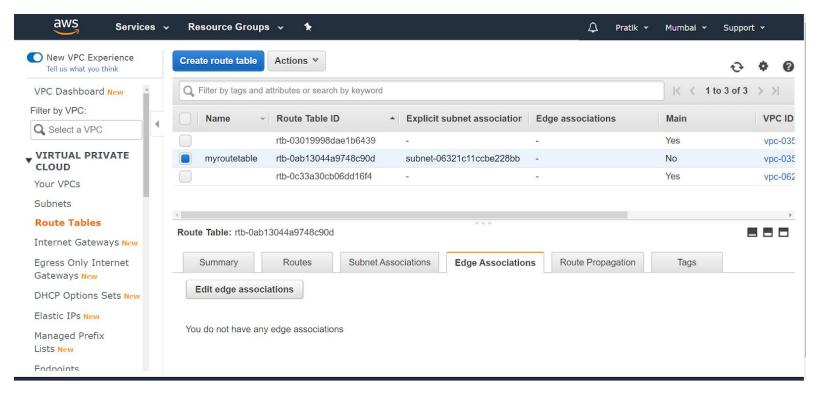
#Creating Internet Gateway

```
resource "aws_internet_gateway" "mygateway" {
  vpc_id = aws_vpc.pratik_vpc.id
  tags = {
    Name = "mygateway"
  }
}
```



#Creating Route Table

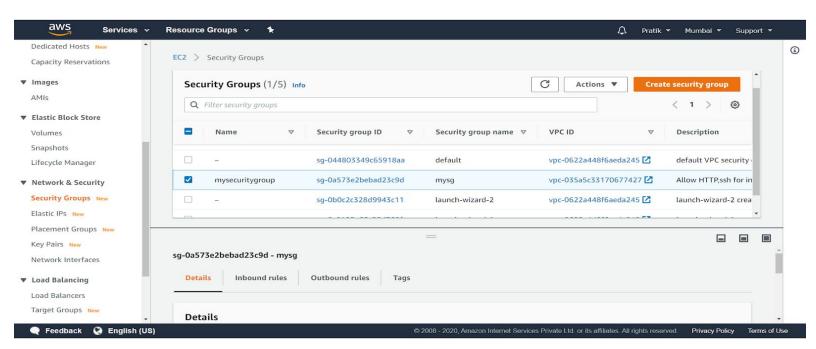
```
resource "aws_route_table" "myroutetable" {
   vpc_id = aws_vpc.pratik_vpc.id
   route {
      cidr_block = "0.0.0.0/0"
      gateway_id = aws_internet_gateway.mygateway.id
   }
   tags = {
      Name = "myroutetable"
   }
}
resource "aws_route_table_association" "assoc" {
   subnet_id = aws_subnet.pratik_subnet.id
   route_table_id = aws_route_table.myroutetable.id
}
```



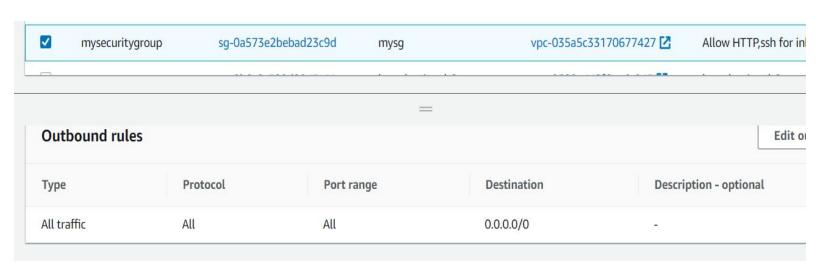
#Creating Security group

```
resource "aws_security_group" "mysg" {
 name
           = "mysg"
 description = "Allow HTTP,ssh for inbound traffic"
           = aws_vpc.pratik_vpc.id
 ingress {
  description = "Http from VPC"
  from_port = 80
  to_port = 80
  protocol = "tcp"
  cidr_blocks = [ "0.0.0.0/0" ]
 ingress {
  description = "SSH from VPC"
  from_port = 22
  to_port = 22
  protocol = "tcp"
  cidr_blocks = [ "0.0.0.0/0" ]
 ingress {
  description = "NFS"
  from_port = 2049
  to_port = 2049
  protocol = "tcp"
  cidr_blocks = [ "0.0.0.0/0" ]
 egress {
  from_port = 0
  to_port = 0
  protocol = "-1"
  cidr_blocks = ["0.0.0.0/0"]
 tags = {
  Name = "mysecuritygroup"
```



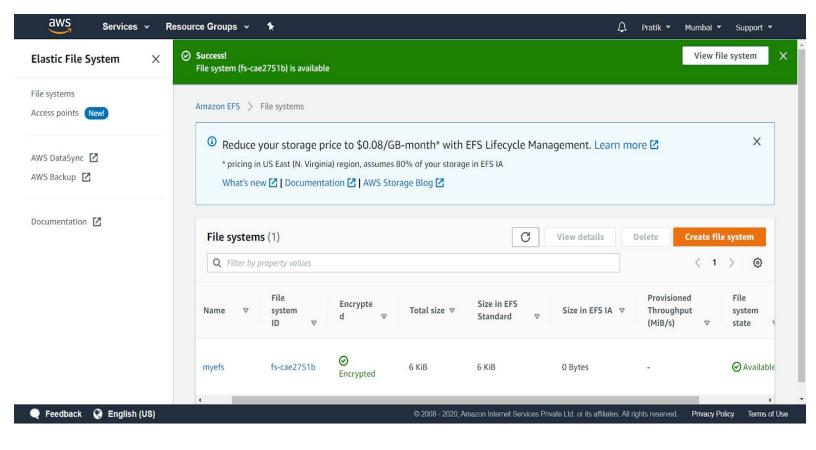






```
#Creating EFS
resource "aws_efs_file_system" "myefs" {
 creation_token = "my-efs"
 performance mode="generalPurpose"
 tags = {
  Name = "myefs"
}
resource "aws_efs_file_system_policy" "policy" {
 file_system_id = aws_efs_file_system.myefs.id
 policy = <<POLICY
{
  "Version": "2012-10-17",
  "Id": "efs-policy-wizard-c45881c9-af16-441d-aa48-0fbd68ffaf79",
  "Statement": [
    {
       "Sid": "efs-statement-20e4223c-ca0e-412d-8490-3c3980f60788",
       "Effect": "Allow".
       "Principal": {
         "AWS": "*"
       "Resource": "${aws efs file system.myefs.arn}",
       "Action": [
         "elasticfilesystem:ClientMount",
         "elasticfilesystem:ClientWrite",
         "elasticfilesystem:ClientRootAccess"
       ],
       "Condition": {
         "Bool": {
            "aws:SecureTransport": "true"
         }
       }
    }
  ]
POLICY
#Mount EFS to EC2 instance
resource "aws_efs_mount_target" "mymount" {
 file_system_id = aws_efs_file_system.myefs.id
 subnet_id = aws_subnet.pratik_subnet.id
 security_groups = [ "${aws_security_group.mysg.id}" ]
```

}



#Creating ec2 instance

resource "aws instance" "myin" {

```
= "ami-00b494a3f139ba61f"
 ami
 instance_type = "t2.micro"
 key_name
               = "mykey1112"
 availability_zone = "ap-south-1a"
 subnet_id = aws_subnet.pratik_subnet.id
 security_groups = [ "${aws_security_group.mysg.id}" ]
 tags = {
  Name = "myterraOS"
}
}
resource "null_resource" "null_vol_attach" {
 depends on = [
  aws_efs_mount_target.mymount,
]
 connection {
  type = "ssh"
  user = "ec2-user"
  private key = tls private key.key form.private key pem
  host
        = aws_instance.myin.public_ip
 provisioner "remote-exec" {
  inline = [
   "sleep 30",
   "sudo yum install -y httpd git php amazon-efs-utils nfs-utils",
   "sudo yum install git",
   "sudo systemctl start httpd",
   "sudo systemctl enable httpd",
   "sudo chmod ugo+rw /etc/fstab",
   "sudo echo '${aws_efs_file_system.myefs.id}:/ /var/www/html efs tls,_netdev' >> /etc/fstab",
   "sudo mount -a -t efs,nfs4 defaults",
```

```
"sudo git clone https://github.com/Pratikkohad1999/multicloud.git /var/www/html/"
       aws
                    Services v
                                    Resource Groups v
                                                                                                                                                    Δ
                                                                                                                                                         Pratik *
                                                                                                                                                                     Mumbai *
                                                                                                                                                                                 Support *
New EC2 Experience
                                                                      Actions *
                                  Launch Instance
                                                           Connect
                                                                                                                                                                               ₽ ₽
                                                                                                                                                                                        0
  EC2 Dashboard New
                                   Q Filter by tags and attributes or search by keyword
                                                                                                                                                                  Events New
                                        NAME

→ Nan → App

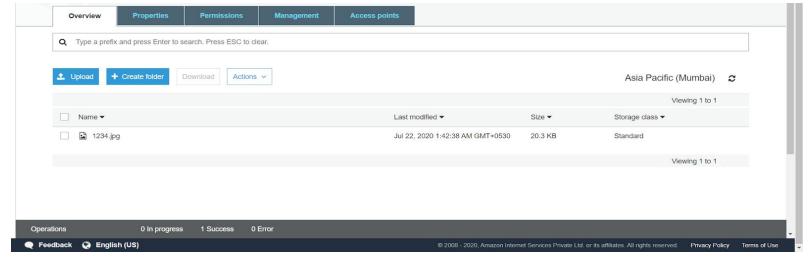
                                                                          - Enviroment -
                                                                                              Instance ID
                                                                                                                   Instance Type -
                                                                                                                                    Availability Zone -
                                                                                                                                                       Instance State -
                                                                                                                                                                        Status Checks -
                                                                                                                                                                                          Alarm S
  Tags
                                                                                              i-0d23869fd3bcf5f44
                                                                                                                   t2.micro
                                                                                                                                     ap-south-1b
                                                                                                                                                        terminated
                                                                                                                                                                                          None
  Limits
                                        myterraOS
                                                                                              i-0dff285d39fd51d97
                                                                                                                   t2.micro
                                                                                                                                     ap-south-1b
                                                                                                                                                        running
                                                                                                                                                                         2/2 checks
                                                                                                                                                                                          None
▼ Instances
  Instances
  Instance Types
  Launch Templates
  Spot Requests
                                                                                                                                 IPv4 Public IP
                                                                                                                                               15.207.21.38
                                                     Instance state
                                                                   running
  Savings Plans
                                                                                                                                     IPv6 IPs
                                                     Instance type
                                                                   Opt-in to AWS Compute Optimizer for
  Reserved Instances
                                                          Finding
                                                                                                                                    Elastic IPs
                                                                   recommendations. Learn more
  Dedicated Hosts New
                                                      Private DNS
                                                                   ip-10-0-1-170.ap-south-1.compute.internal
                                                                                                                                Availability zone
  Capacity Reservations
                                                       Private IPs
                                                                   10.0.1.170
                                                                                                                                Security groups
                                                                                                                                               mysg. view inbound rules. view outbound
                                                                                                                                               rules
                                                                                                                              Scheduled events
▼ Images
                                               Secondary private IPs
                                                                                                                                               amzn2-x86 64-MATEDE DOTNET-
                                                                   vpc-035a5c33170677427 (pratik_vpc)
                                                          VPC ID
                                                                                                                                       AMI ID
  AMIS
                                                                                                                                               2020.04.14 (ami-00b494a3f139ba61f)
                                                                   subnet-06321c11ccbe228bb (pratik_subnet)
                                                                                                                                Platform details
▼ Elastic Block Store
  Feedback Senglish (US)
                                                                                                                                                                      Privacy Policy
```

#Creating S3 Bucket

"sudo rm -rf /var/www/html/*",

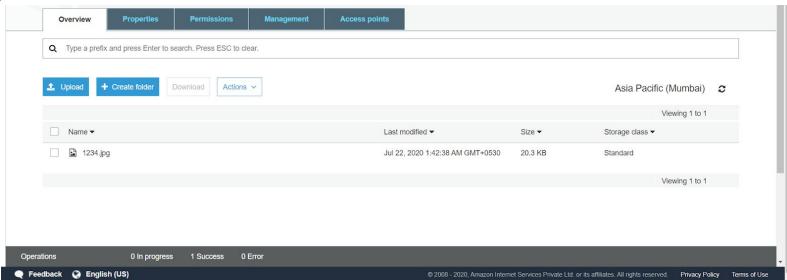
```
resource "aws_s3_bucket" "mybucket" {
  bucket = "pratik1234"
  acl = "public-read"
  force_destroy = true
  cors_rule {
    allowed_headers = ["*"]
    allowed_methods = ["PUT", "POST"]
    allowed_origins = ["https://pratik1234"]
    expose_headers = ["ETag"]
    max_age_seconds = 3000
  }

depends_on = [
  null_resource.null_vol_attach,
  ]
}
```



#putting object inside the s3 bucket

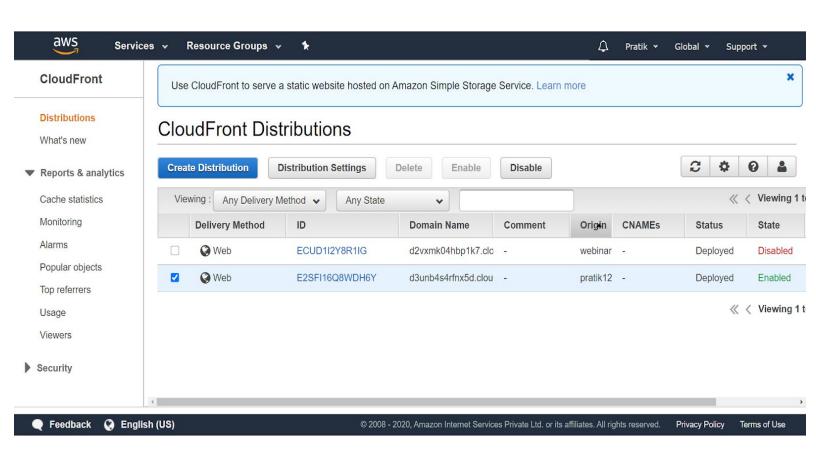
```
resource "aws_s3_bucket_object" "myobj" {
   key = "1234.jpg"
   bucket = aws_s3_bucket.mybucket.id
   source = "C:/Users/Asus/Downloads/1234.jpg"
   acl="public-read"
}
```

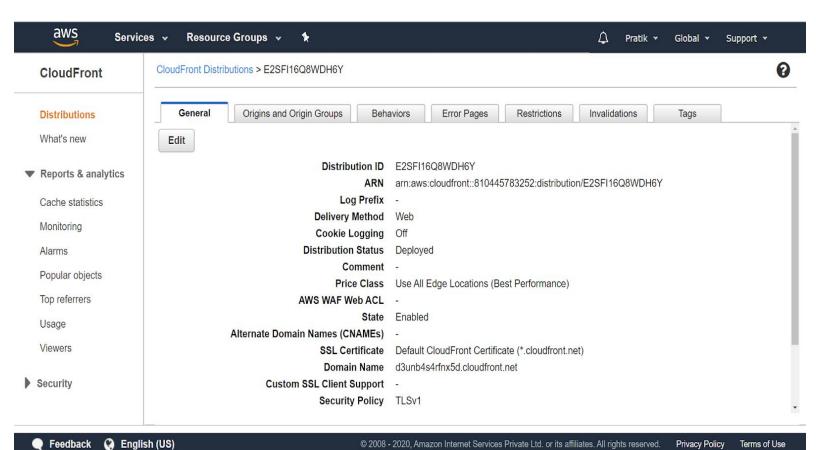


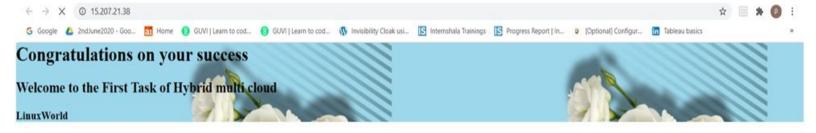
Create Cloudfront distribution

```
locals {
 s3_origin_id=aws_s3_bucket.mybucket.bucket
 image_url="$(aws_cloudfront_distribution.mycdistribution.domain_name)/$(aws_s3_bucket_object.image-pull.key)"
}
resource "aws_cloudfront_origin_access_identity" "origin_access_identity"{
  comment="Sync Cloudfront to s3"
}
resource "aws_cloudfront_distribution" "mycdistribution" {
     domain_name=aws_s3_bucket.mybucket.bucket_regional_domain_name
     origin_id=local.s3_origin_id
 s3_origin_config {
    origin_access_identity=aws_cloudfront_origin_access_identity.origin_access_identity.cloudfront_access_identity_path
}
enabled=true
is ipv6 enabled=true
default_root_object="index.php"
custom_error_response {
 error_caching_min_ttl=3000
 error code=404
 response code=200
 response_page_path="/1234.jpg"
}
default_cache_behavior {
 allowed_methods = ["DELETE", "GET", "HEAD", "OPTIONS", "PATCH", "POST", "PUT"]
```

```
cached_methods = ["GET", "HEAD"]
  target_origin_id = local.s3_origin_id
  forwarded_values {
   query_string=false
  cookies {
   forward= "none"
}
viewer_protocol_policy= "allow-all"
  min ttl= 0
  default_ttl= 3600
 max_ttl= 86400
}
restrictions {
 geo_restriction {
   restriction_type="none"
}
viewer_certificate {
  cloudfront_default_certificate=true
}
tags = {
 Name="mycdistribution"
connection {
  type = "ssh"
  user = "ec2-user"
  private_key = tls_private_key.key_form.private_key_pem
        = aws_instance.myin.public_ip
 }
 provisioner "remote-exec" {
  inline = [
    "sudo su << EOF",
     "sudo chmod ugo+rw /var/www/html/",
     "sudo echo \"<img src='http://${aws_cloudfront_distribution.mycdistribution.domain_name}/$(aws_s3_bucket_object.image-pull.key)'>\" >>
/var/www/html/index.html",
    "EOF"
}
output "cloudfront_ip_addr" {
 value = aws_cloudfront_distribution.mycdistribution.domain_name
}
resource "null_resource" "key_pair" {
         provisioner "local-exec" {
           command = "echo '${tls_private_key.key_form.private_key_pem}' > key.pem"
         }
```







```
C:\Users\Asus\Desktop\terraformcodefiles>terraform destroy -auto-approve
tls_private_key.key_form: Refreshing state... [id=584f920a6c60e460a4112d056052f2c52697d31c]
null_resource.key_pair: Refreshing state... [id=1997524165343346184]
null_resource.key_pair: Destroying... [id=1997524165343346184]
null_resource.key_pair: Destruction complete after 0s
```

Destroy complete! Resources: 18 destroyed.