**Create a new IAM role called power users and attach a policy who should have read only privileges to EC2,S3,Clouwatch,EBS,Codebuild,Autoscalling,resource group using AWS console and terraform.**

**USING AWS CONSOLE :**

Step 1:Create IAM policies for Elastic Block Store(EBS) and Resource Group .

To create IAM policy , navigate to Policies option located in the IAM dashboard .

🡪Choose create policy

🡪Choose Service (Resource group)

🡪Select Actions

🡪Select Resources (whether All Resources or Specific )

🡪Click on Create Policy

Creation of IAM policy named Resource Group


Creating an IAM Policy named Resource\_Group.

AWSResource_Group created 


Description automatically generated

Similarly we create a policy for Elastic Block Store :

AWSElasticBlockStore_policy created 


Description automatically generated

Step 2: Create an IAM Role named power\_users:

🡪To create a role navigate to IAM dashboard and choose Roles

🡪Select Create Role

Choose AWS service (entity)and EC2(use case)


Description automatically generated

In the previous section select the policies to be attached and choose next , then give a name to the role (power_users )in my case .


Description automatically generated

The role is created once create role option is selected . 


Description automatically generated

Scroll down and check Permissions tab to see the policies attached .


**USING TERRAFORM** :

|  |  |
| --- | --- |
| Step 1: | Using aws\_iam\_role\_resource we create a role named power\_users\_tf |
| Step 2: | Using aws\_iam\_role\_policy resource we mention the JSON codes (policies) of read access for EC2, S3, CloudWatch ,EBS, CodeBuild, AutoScaling , Resource Group and attach the role by mentioning the role name to which the role has to be attached . |
| Step 3: | terraform init |
| Step 4: | terraform plan |
| Step 5: | terraform apply |
| Step 6 : | Now to check this , login to the AWS Console |
| Step 7: | Navigate to the IAM dashboard and click on roles . You will find the role created , click on it  Graphical user interface, text, application  Description automatically generated |
| Step 8 : | Under permission tab you can find the policy attached :power-users-policy  Click on that and choose summary |

|  |  |
| --- | --- |
| Step 9: | Scroll down to see the policies attached . |