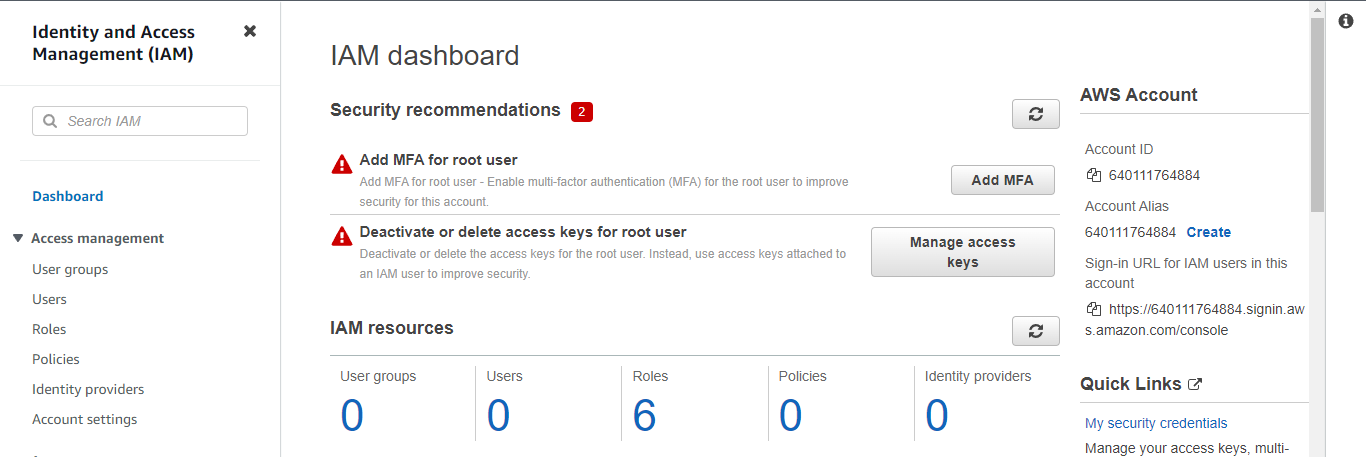
# Configure the AWS Security Token Service (STS) using IAM

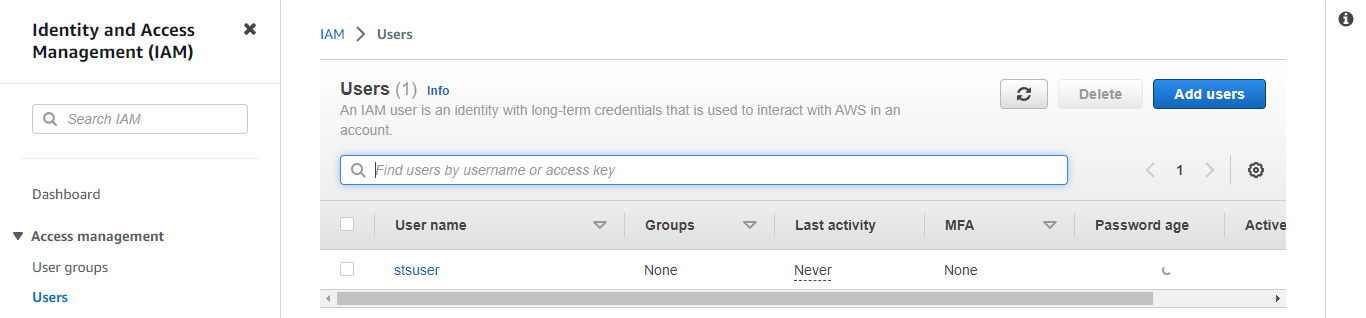
## To configure the AWS Security Token Service (STS) using IAM (Identity and Access Management), you can follow these steps:

### -Open the IAM console:



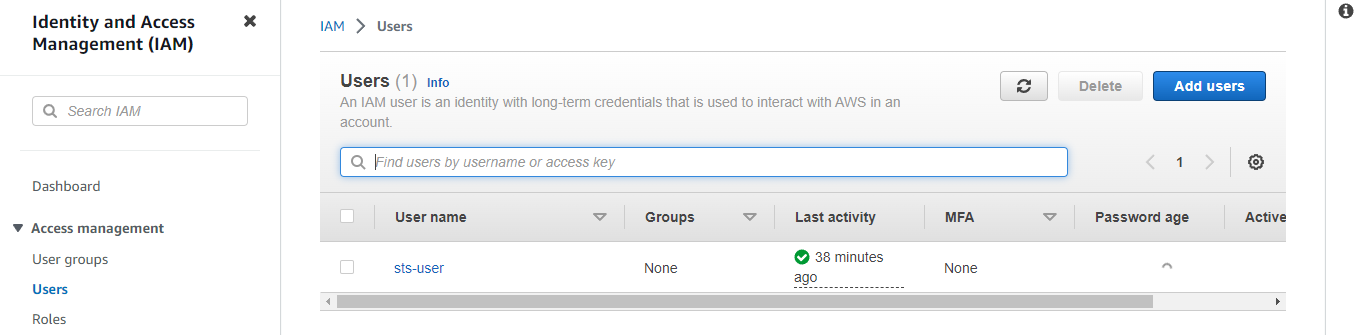
### -Create a user using IAM:

In the navigation pane, choose "user"->Set permission: Attach policies directly->next->create



### -Create access key:

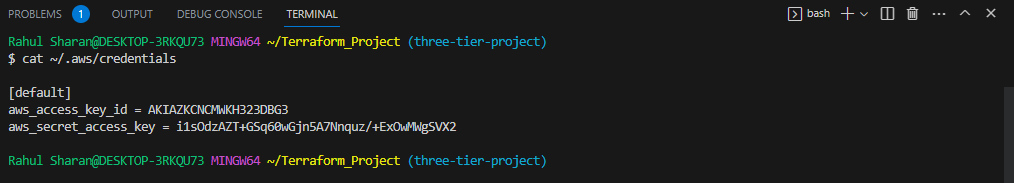
Click on “sts-user” to start creating an access key->Security credentials-> Access keys:Create Access key: local code->next->create access key->Done



### -Delete the Credentials:

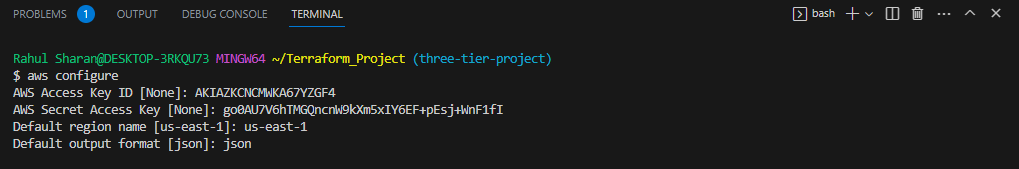
>cat ~/.aws/credentials

>rm –rf ~/.aws/credentials



### -Configure the access key with terraform using the following command:

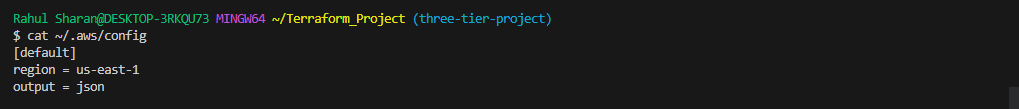
>aws configure

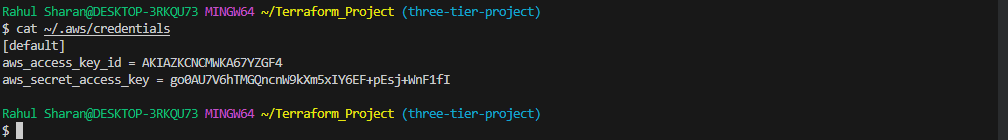


### -Check the .aws configuration file:

> cat ~/.aws/config and

>cat ~/.aws/credentials



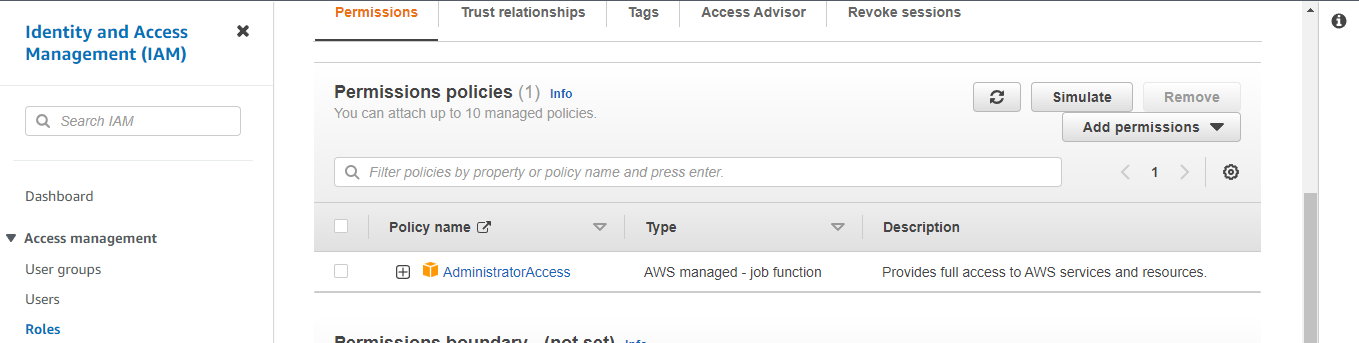


### -Create role:

Click on "Create role" to start creating a new role.

Trusted type->AWS account: use case->EC2->AWS Account: This account->Next->Add permission: Administrator access->next->Role name: “stsassume-role” ->Create role





### -Add permission to user:

Create the inline policy by Configuring using a role by using below link:

<https://docs.aws.amazon.com/cli/latest/userguide/cli-configure-role.html>

IAM->User: sts-user->permission: add permission: Create inline policy: JSON:->Review policy and Create: name it as "stsassumerole-policy"

{

"Version": "2012-10-17",

"Statement": [

{

"Effect": "Allow",

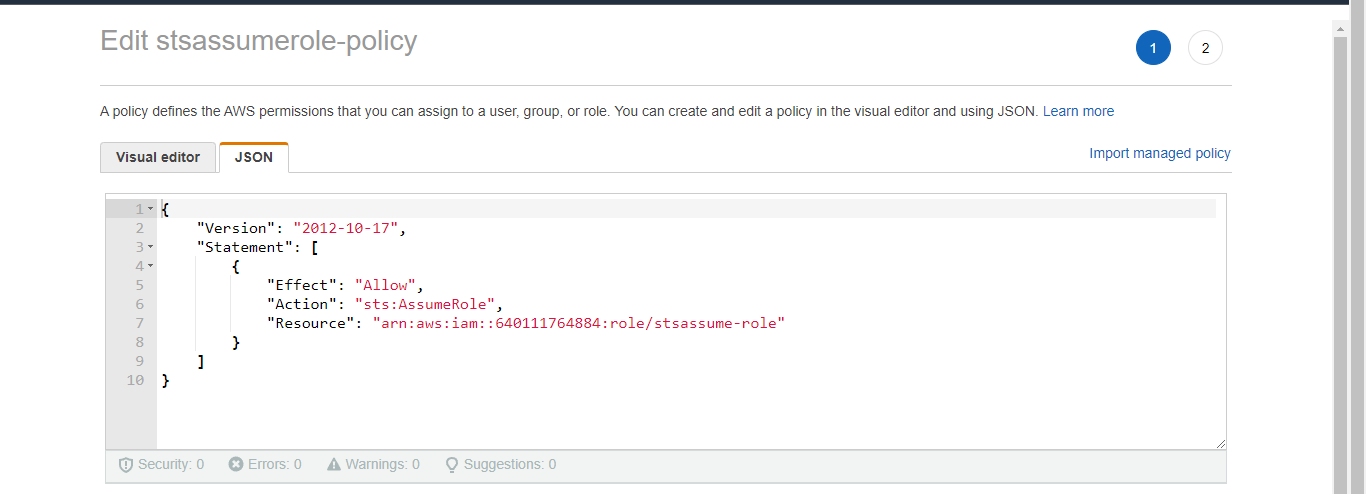
"Action": "sts:AssumeRole",

"Resource": "arn:aws:iam::640111764884:role/stsassume-role"

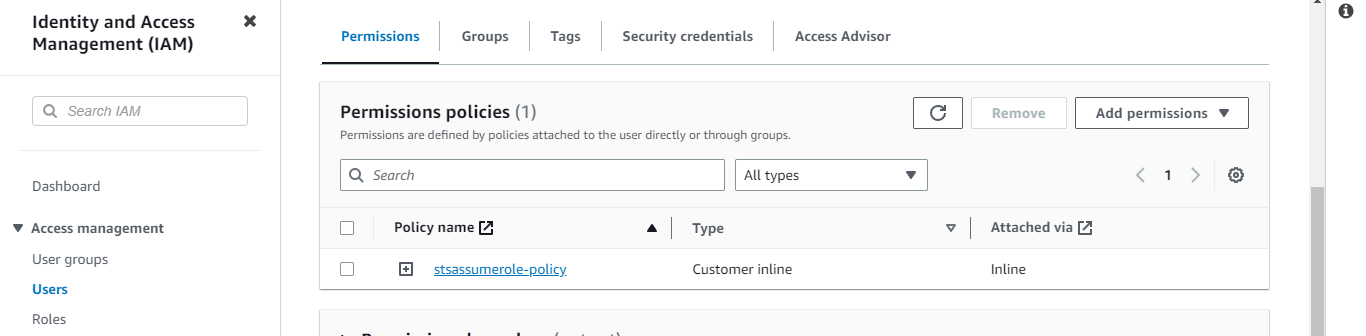
}

]

}



### -Successfully added the permission:



### -Configure the profile sts in configuration file:

>code ~/.aws/config

[profile sts]

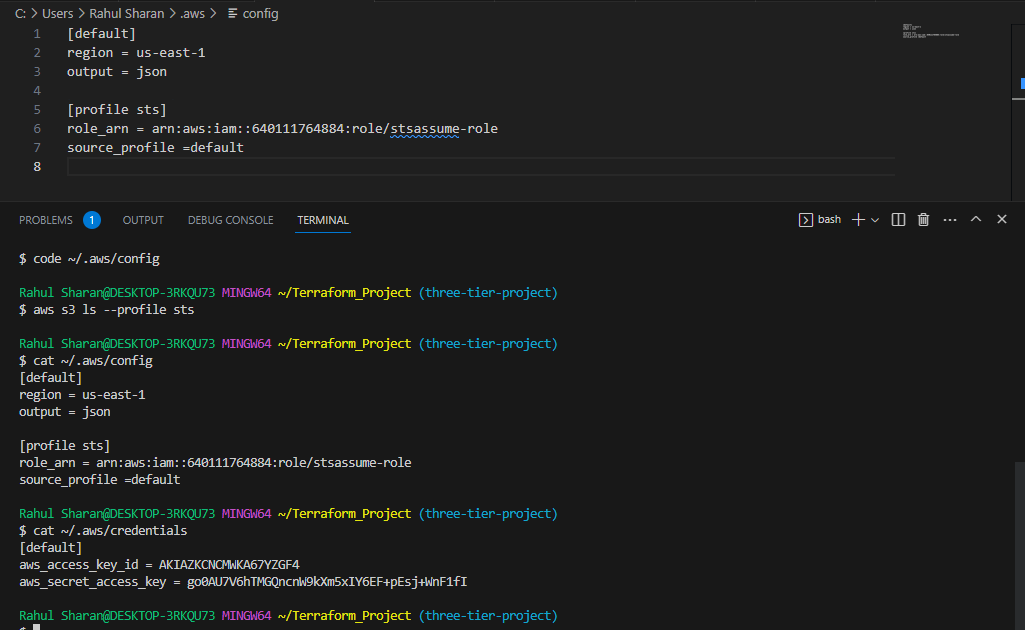
role\_arn = arn:aws:iam::640111764884:role/stsassume-role

source\_profile =default

>cat ~/.aws/config

>aws s3 ls --profile sts

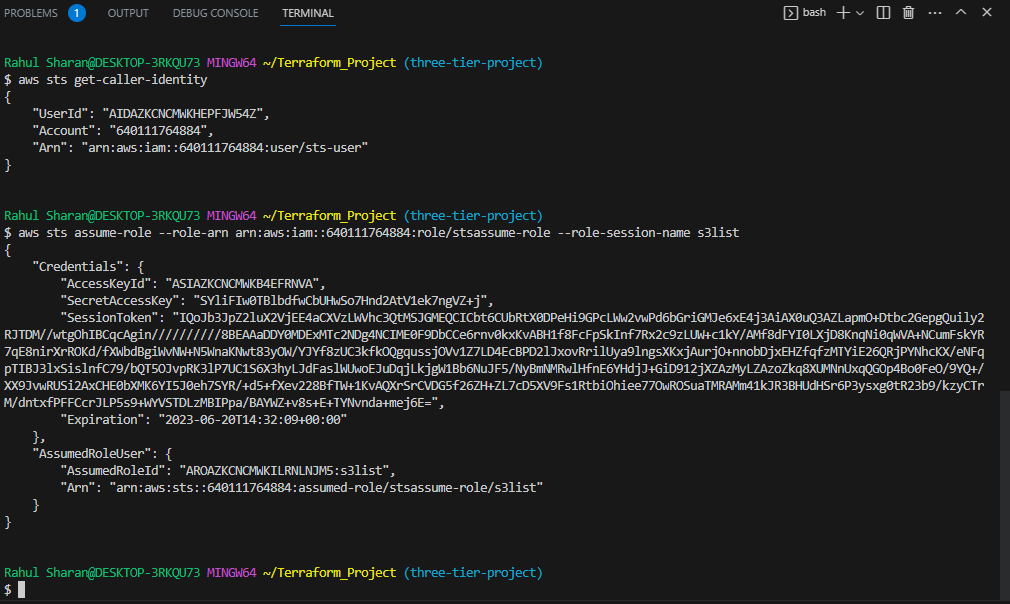
-> cat ~/.aws/credentials



### -Check the session token by using the following commands:

> aws sts get-caller-identity

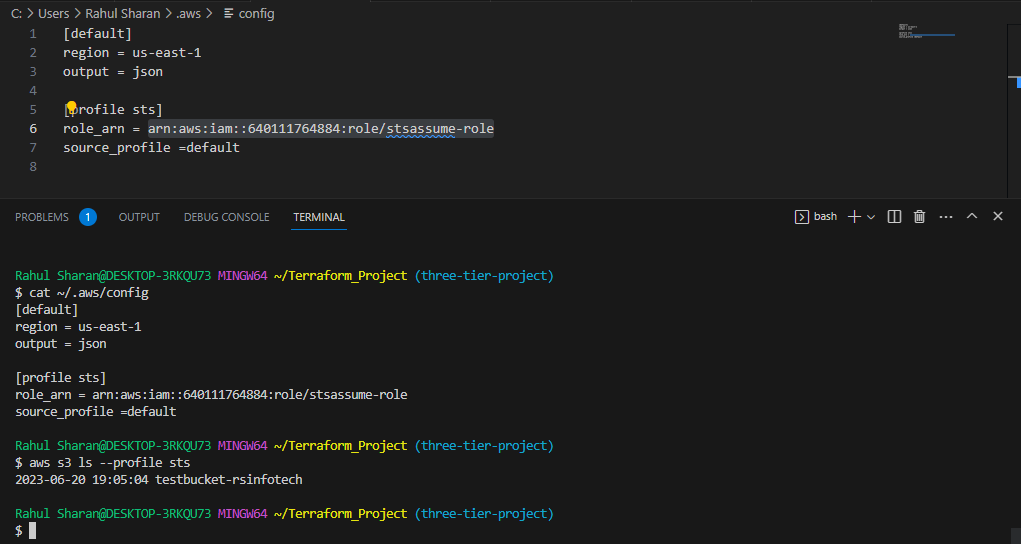
> aws sts assume-role --role-arn arn:aws:iam::640111764884:role/stsassume-role --role-session-name s3list



### -Check the S3 list using the following commands

> cat ~/.aws/config

> aws s3 ls --profile sts



### -Go to provider.tf and configure assume role:

provider "aws" {

  region = "us-east-1"

  assume\_role {

    role\_arn     = "arn:aws:iam::640111764884:role/stsassume-role"

    session\_name = "terraform-sts"

  }

}

