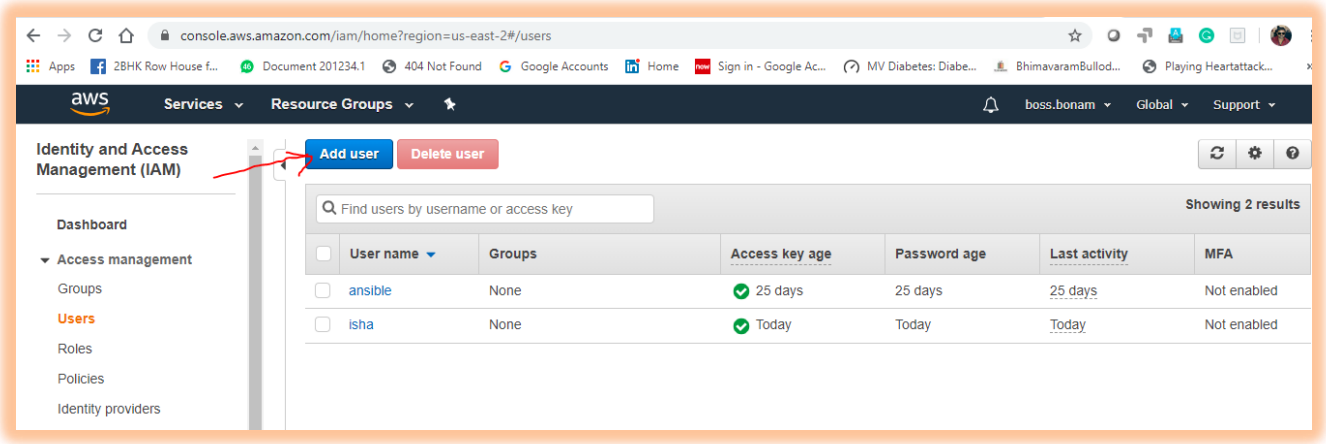
Create AWS EC2 Instance in 4 Simple Steps

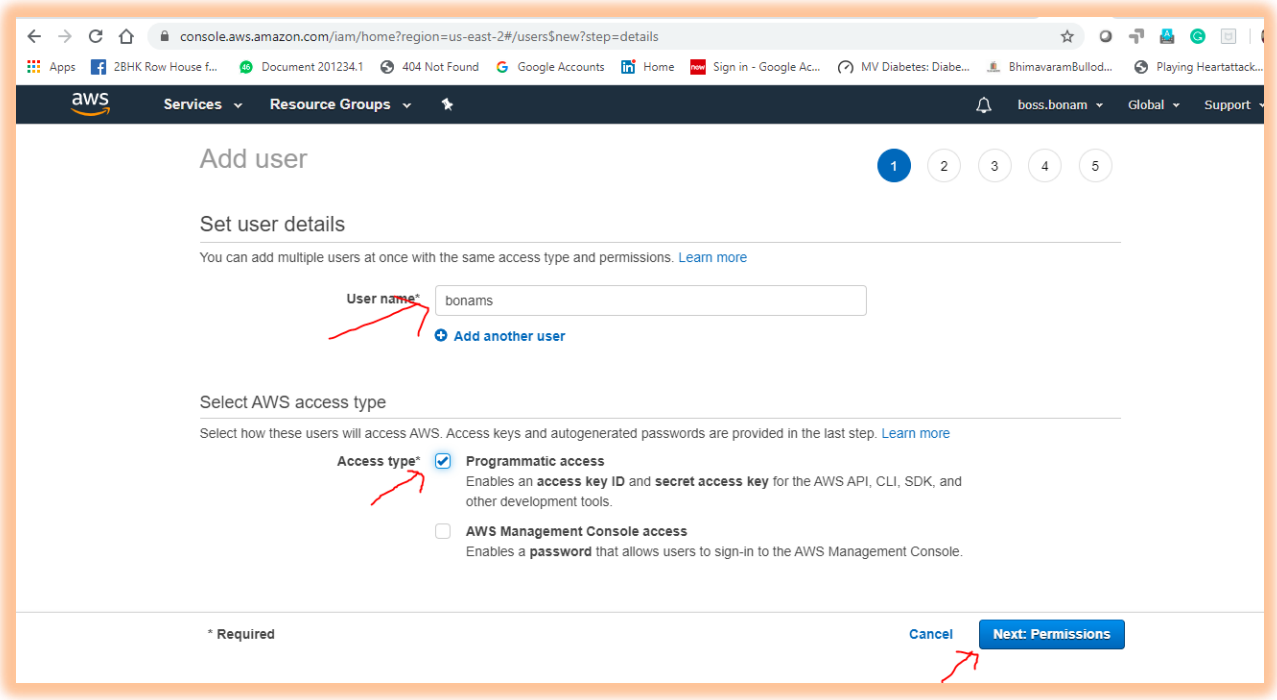
1. **Create a User and get AWS Access ID and Secret Key.**
2. **Configure AWS Credentials Locally**
3. **Create Key Pair for EC2 Instance**
4. **Create a New EC2 Instance**

1. Create a User and get AWS Access ID and Secret Key

1. Launch the Identity and Access Management console (IAM) in AWS.
2. Click **Users** on the navigation menu on the left of the screen.
3. In the popup window, click on **Add User.**

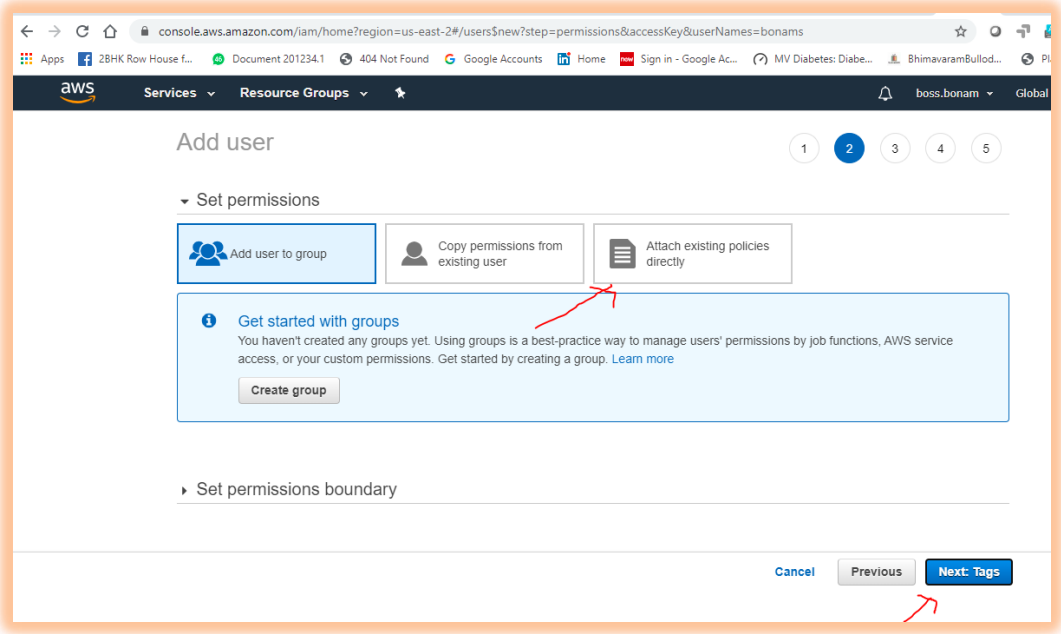


Provide Username and click next

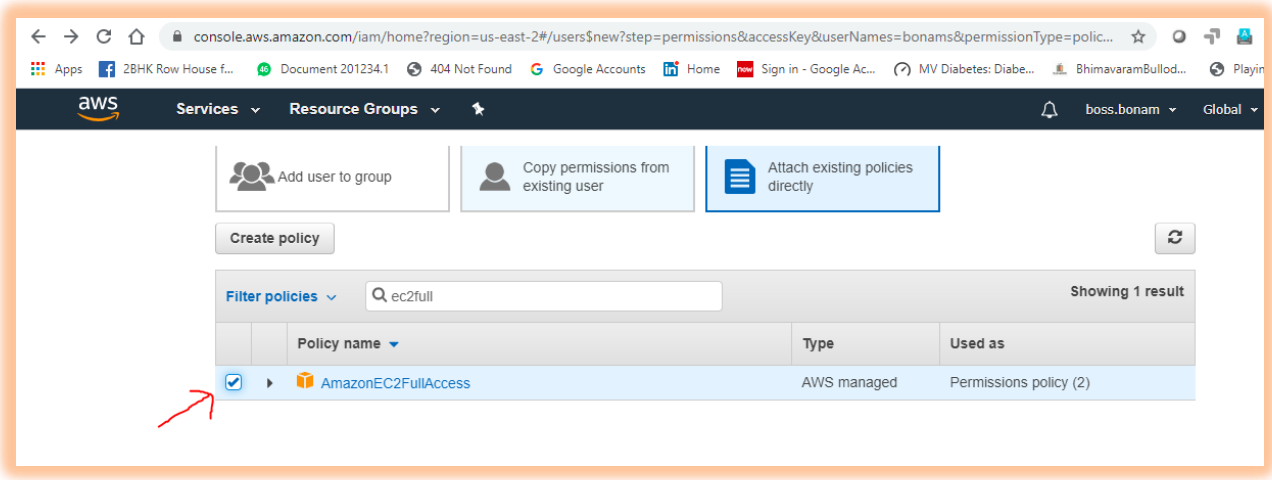


Please don't forgot to check box **Programmatic access**

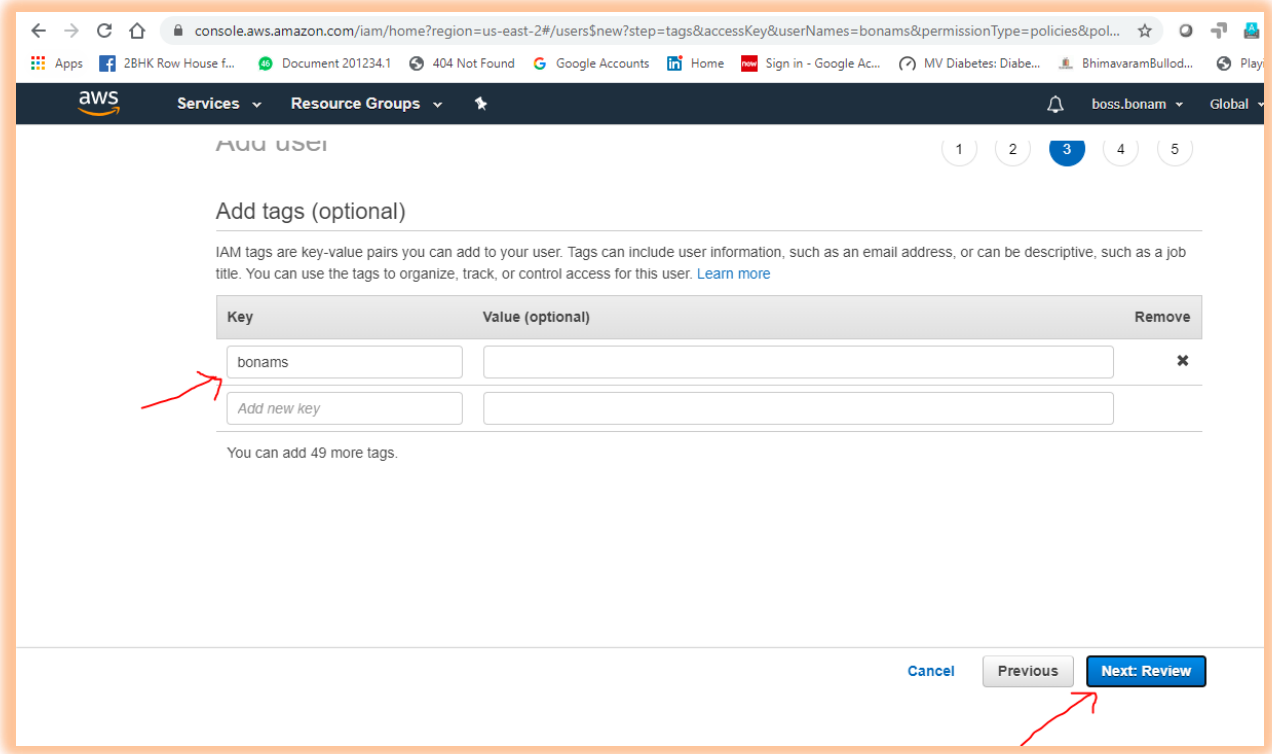
Click on Attaching existing policies

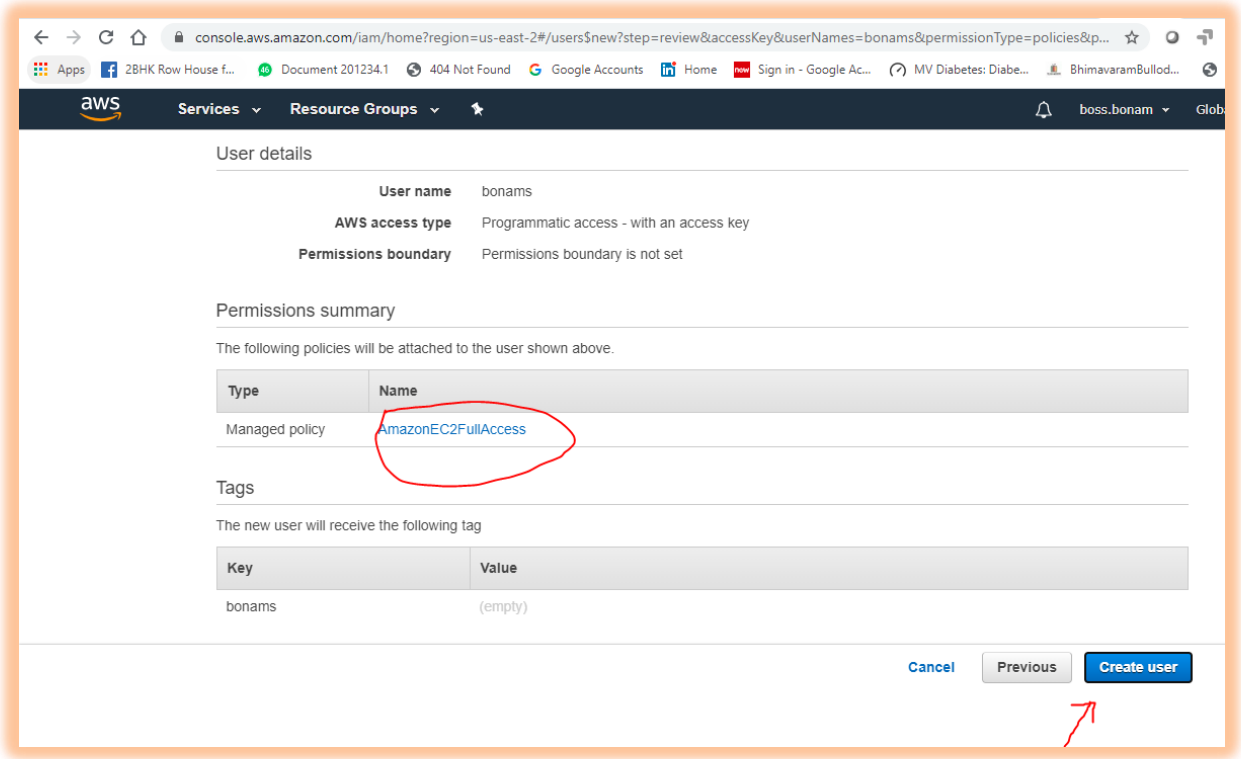


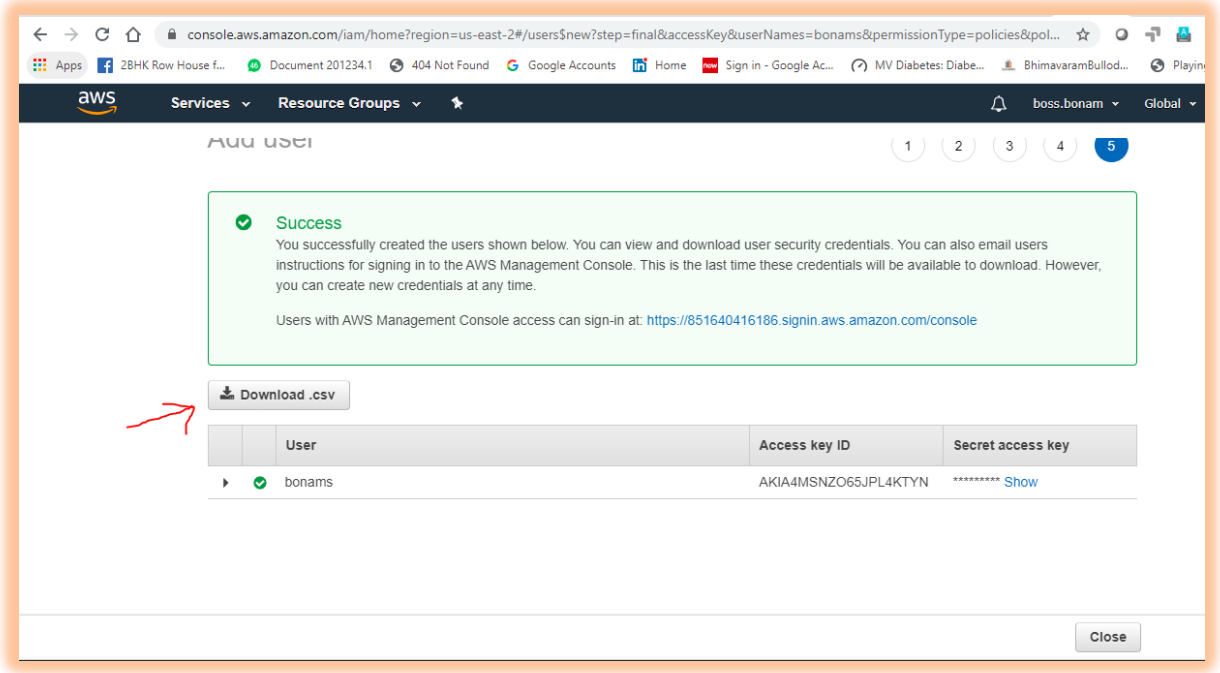
Find for AmazonEC2FullAccess and select



Tags are optional







Please download CSV file this file contains Access key ID and Secret access key

2. Configure AWS Credentials Locally

AWS CI tool should be configured to execute following commands

aws configure -- execute in CMD promt after AWS CL install

It will prompt for below inputs

AWS Key ID: you can get it from CSV file which we downloaded after user creation

AWS Access Key: you can get it from CSV file which we downloaded after user creation

Default Region Name: please provide your AWS region Name

Default Output: json

```
C:\aws>aws configure
AWS Access Key ID [****************7NPY]: give yours
AWS Secret Access Key [****************fQpi]: give yours
Default region name [us-east-2]:
Default output format [json]: json
```

To validate Connection to AWS

aws ec2 describe-instances

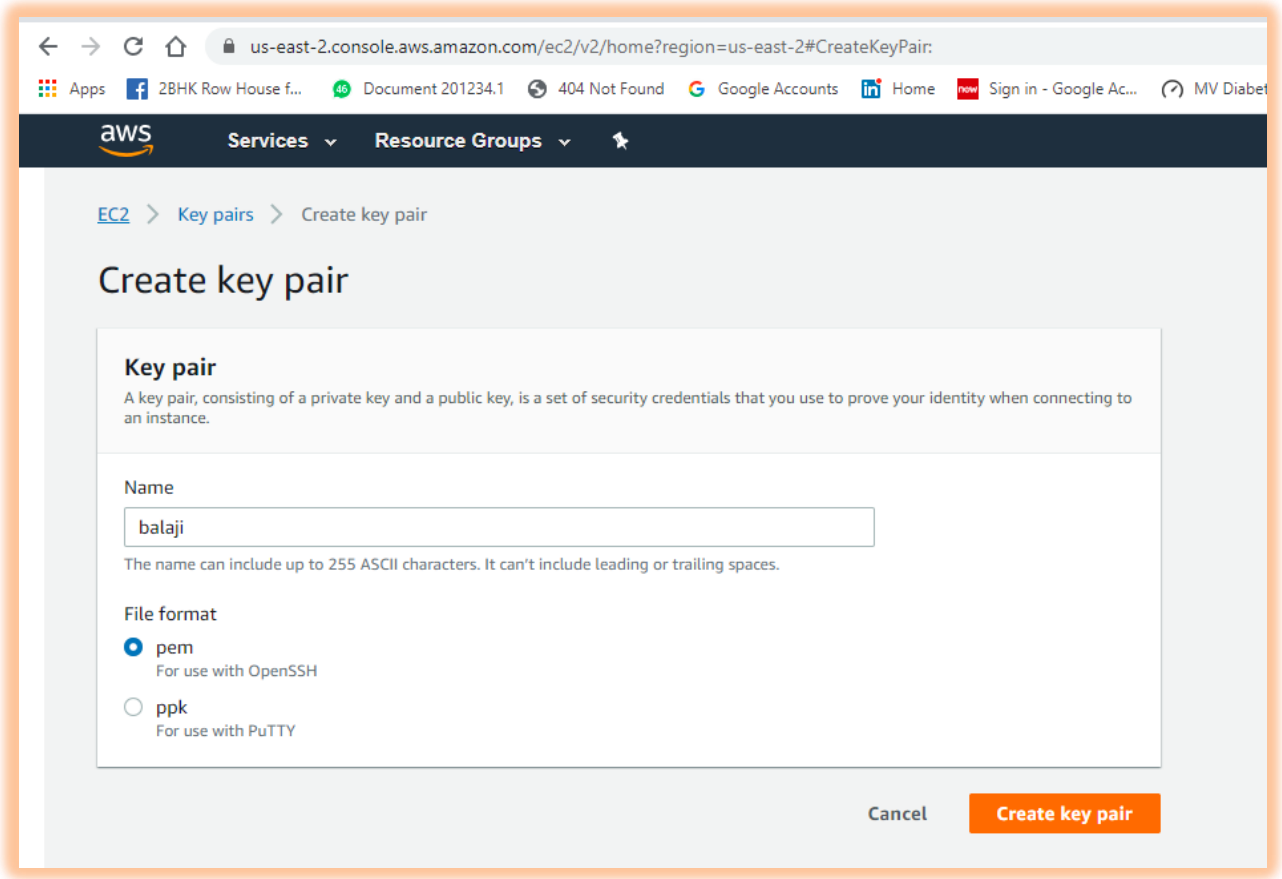
Should Display your existing AWS instance details

3. Create Key Pair for EC2 Instance

Go to AWS EC2 console

Services → ec2 → Key Pairs

Create New Keypair.



pem File automatically download to your local machine please save in secured location and this will use to create ec2 instance

Your local server use this key file to create and connect to aws instance

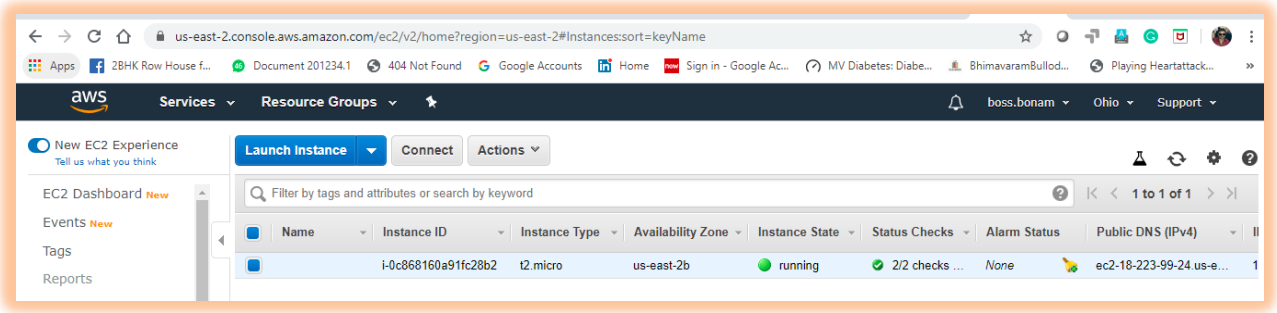
4. Create a New EC2 Instance

Got to location where you saved pem file and open python shell and run below

Note: ImageId='ami-0f7919c33c90f5b58' type of image you can get this from aws console

KeyName='balaji' is name of your keyfile (extension not required)

```
import boto3
ec2 = boto3.resource('ec2')
# create a new EC2 instance
instances = ec2.create_instances(
    ImageId='ami-0f7919c33c90f5b58',
    MinCount=1,
    MaxCount=1,
    InstanceType='t2.micro',
    KeyName='balaji'
)
```



Thanks

Bonams