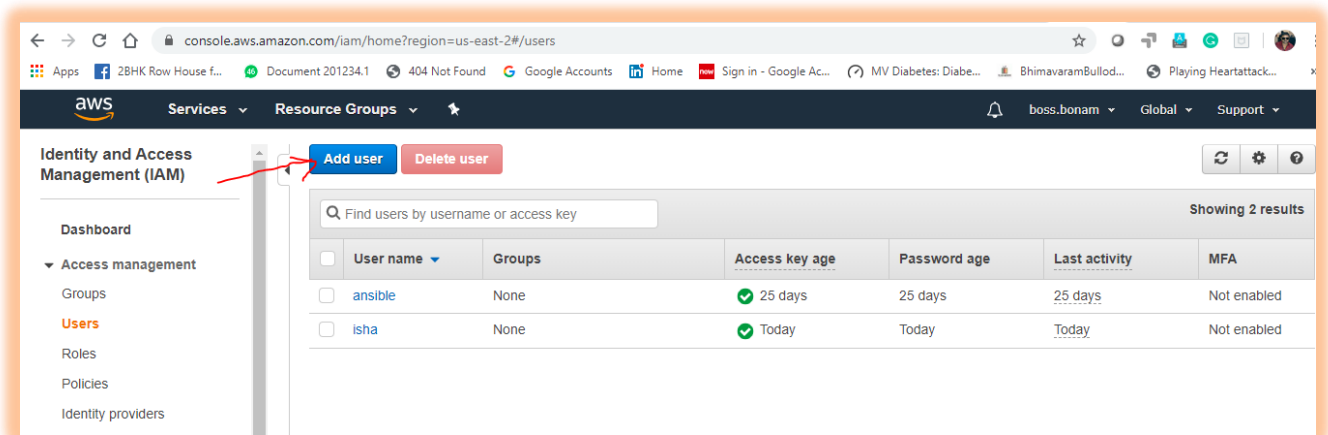


# Create AWS EC2 Instance in 4 Simple Steps

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

console.aws.amazon.com/iam/home?region=us-east-2#/users\$new?step=details

aws Services Resource Groups

### Add user

1 2 3 4 5

#### Set user details

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name\* bonams

+ Add another user

#### Select AWS access type

Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

Access type\* ☒ **Programmatic access**  
Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.

☐ **AWS Management Console access**  
Enables a **password** that allows users to sign-in to the AWS Management Console.

\* Required

Cancel Next: Permissions

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

Click on Attaching existing policies

console.aws.amazon.com/iam/home?region=us-east-2#/users\$new?step=permissions&accessKey&userNames=bonams

aws Services Resource Groups

### Add user

1 2 3 4 5

#### Set permissions

[Add user to group](#) [Copy permissions from existing user](#) [Attach existing policies directly](#)

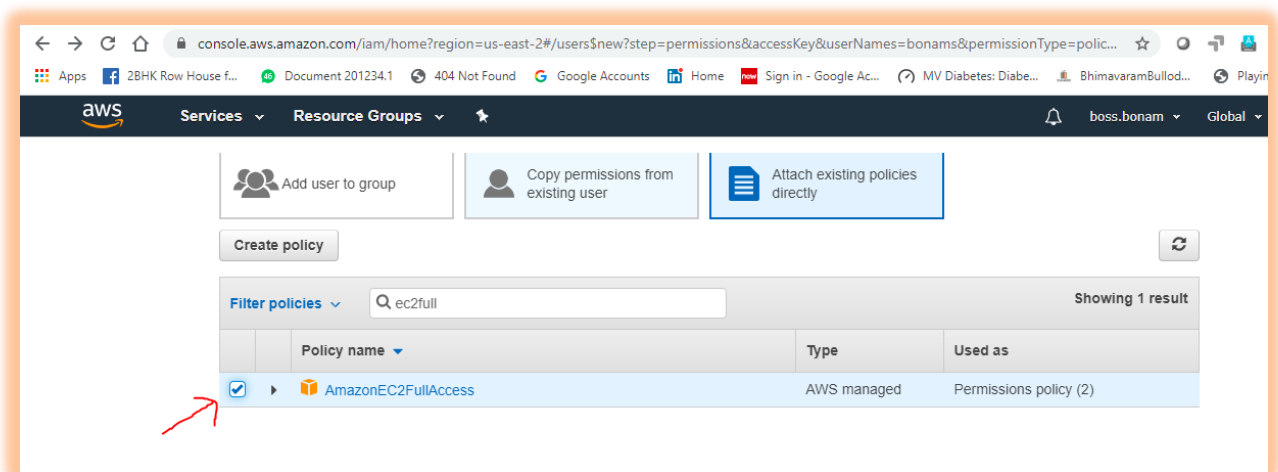
**Get started with groups**  
You haven't created any groups yet. Using groups is a best-practice way to manage users' permissions by job functions, AWS service access, or your custom permissions. Get started by creating a group. [Learn more](#)

Create group

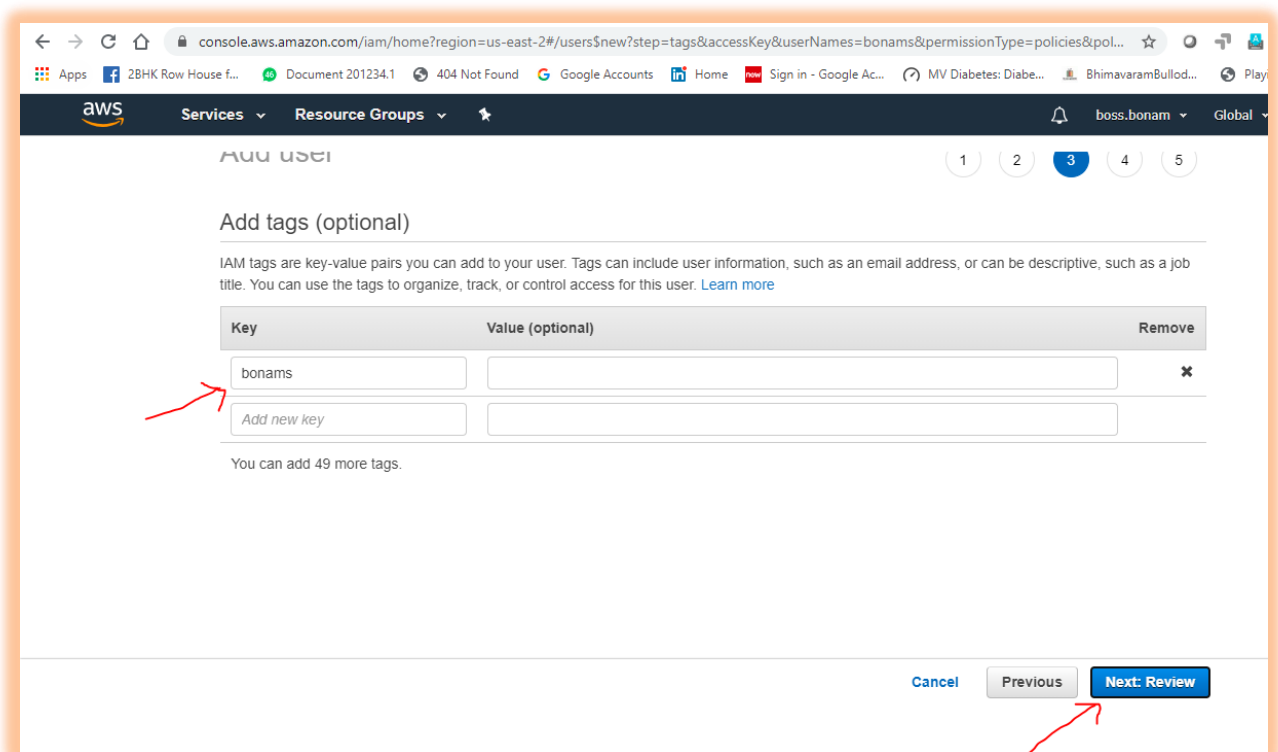
#### Set permissions boundary

Cancel Previous Next: Tags

Find for AmazonEC2FullAccess and select



Tags are optional



console.aws.amazon.com/iam/home?region=us-east-2#/users\$new?step=review&accessKey&userNames=bonams&permissionType=policies&p...

Services Resource Groups

### User details

User name: bonams

AWS access type: Programmatic access - with an access key

Permissions boundary: Permissions boundary is not set

### Permissions summary

The following policies will be attached to the user shown above.

Type	Name
Managed policy	AmazonEC2FullAccess

### Tags

The new user will receive the following tag

Key	Value
bonams	(empty)

Cancel Previous **Create user**

console.aws.amazon.com/iam/home?region=us-east-2#/users\$new?step=final&accessKey&userNames=bonams&permissionType=policies&pol...

Services Resource Groups

### Add user

1 2 3 4 **5**

✓ **Success**

You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.

Users with AWS Management Console access can sign-in at: <https://851640416186.signin.aws.amazon.com/console>

**Download .csv**

User	Access key ID	Secret access key
bonams	AKIA4MSNZO65JPL4KTYN	***** <a href="#">Show</a>

Close

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

## 2. Configure AWS Credentials Locally

AWS CLI tool should be configured to execute following commands

**aws configure -- execute in CMD prompt 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

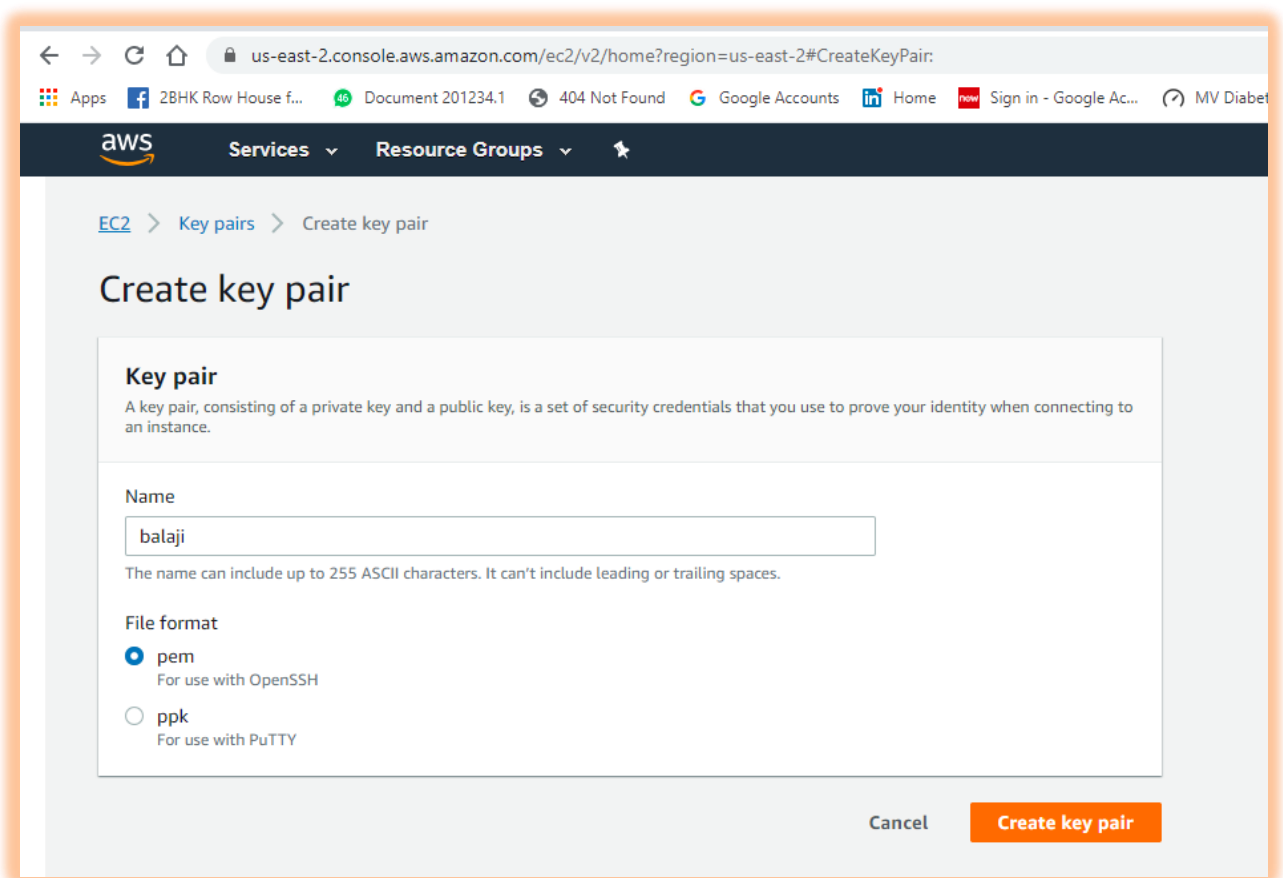
Should Display your existing AWS instance details

### 3. Create Key Pair for EC2 Instance

Go to AWS EC2 console

Services → ec2 → Key Pairs

Create New Keypair.



The screenshot shows the AWS Management Console interface for creating a new key pair. The browser address bar displays the URL: `us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#CreateKeyPair:`. The console header includes the AWS logo, 'Services', and 'Resource Groups'. The breadcrumb navigation shows 'EC2 > Key pairs > Create key pair'. The main heading is 'Create key pair'. Below this, a section titled 'Key pair' explains that a key pair consists of a private key and a public key used for authentication. The 'Name' field contains the text 'balaji'. A note states: 'The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.' Under 'File format', the 'pem' option is selected with a radio button, labeled 'For use with OpenSSH'. The 'ppk' option is unselected, labeled 'For use with PuTTY'. At the bottom right, there are two buttons: 'Cancel' and 'Create key pair'.

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

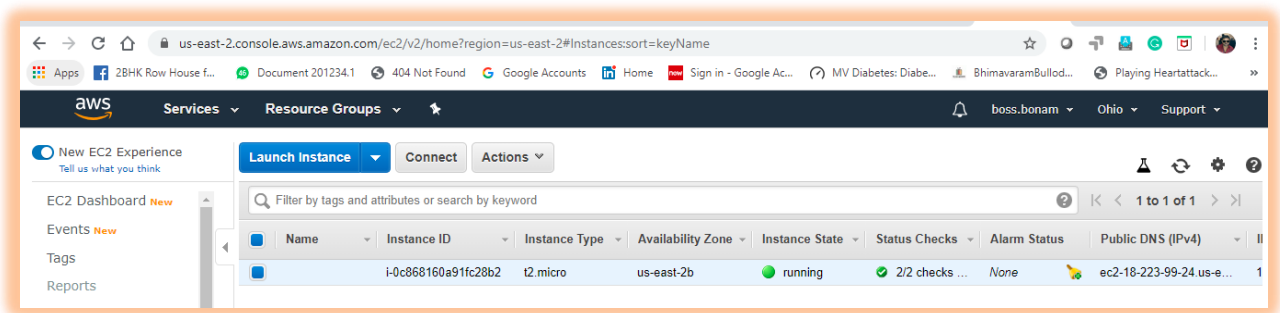
## 4. Create a New EC2 Instance

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