

# Create Your First EC2 Instance (Linux) by kvreddi

### Create EC2 Instance (Linux)

#### STEP#1: Login to Amazon Web Service Console

#### Amazon Web Services EC2 Virtual Servers in the Cloud CodeCommit Store Code in Private Git Repositories AWS IoT Connect Devices to the Cloud CodeDeploy Automate Code Deployments EC2 Container Service Game Development ₽ Elastic Beanstalk Lambda Run Code in Response to Events Mobile Services Management Tools CloudWatch Monitor Resources and Applications Mobile Hub Build, Test, and Monitor Mobile Apps Storage & Content Delivery Cognito User Identity and App Data Synchronization \$3 Scalable Storage in the Cloud CloudFormation Create and Manage Resources with Templates Device Farm Test Android, FireOS, and iOS Apps on Real Devices in the ( Elastic File System PREVIEW Config Track Resource Inventory and Changes Mobile Analytics Collect, View and Export App Analytics System for EC2 SNS Push Notification Service Archive Storage in the Cloud te Operations with Chef Import/Export Snowball Application Services Storage Gateway Hybrid Storage Integrati API Gateway Build, Deploy and Manage APIs Trusted Advisor AppStream Low Latency Application Streaming Database Security & Identity ldentity & Access Management CloudSearch Managed Search Service Managed Relational Database Service Elastic Transcoder Easy-to-Use Scalable Media Transcoding Inspector PREVIEW Analyze Application Security SES Email Sending and Receiving Service ★ ElastiCache In-Memory Cache Redshift WAF Filter Malicious Web Traffic SQS Message Queue Service Fast, Simple, Cost-Effective Data Warehousing Certificate Manager DMS Managed Database Migration Service SWF Workflow Service for Coordinating Application Components Provision, Manage, and Deploy SSL/TLS Certificates Enterprise Applications VPC EMR Managed Hadoop Framework Direct Connect WorkDocs Secure Enterprise Storage and Sharing Service Data Pipeline Orchestration for Data-Driven Workflows Dedicated Network Connection to AWS WorkMail Secure Email and Calendaring Service Scalable DNS and Domain Name Registration ▲ Kinesis

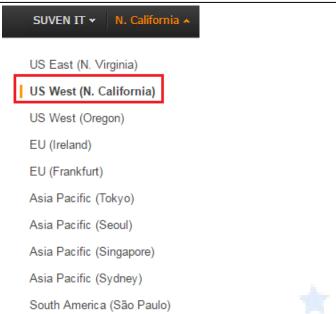
The AWS Management Console is a web control panel for managing all your AWS resources, from EC2 instances. The Console enables cloud management for all aspects of the AWS account, including managing security credentials, or even setting up new IAM Users.

#### STEP#2: Select the right AWS Region

Amazon Web Services is available in different Regions all over the world and the Console lets you provision resources across multiple regions. You usually choose a region those best suits your business needs to optimize your customer's experience





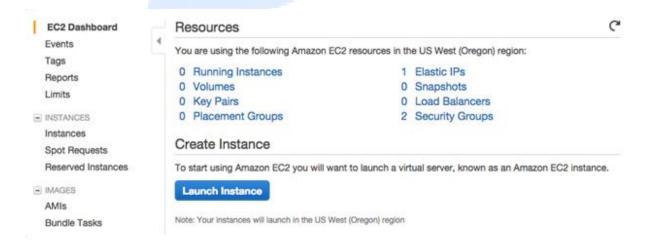


#### STEP#3: Create a Linux EC2 instance

You can launch an EC2 instance using the EC2 launch wizard. Select the EC2 service from the Management Console dashboard:



### From the dashboard, click Launch Instance.

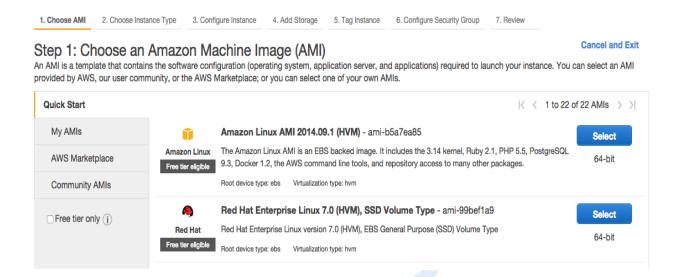






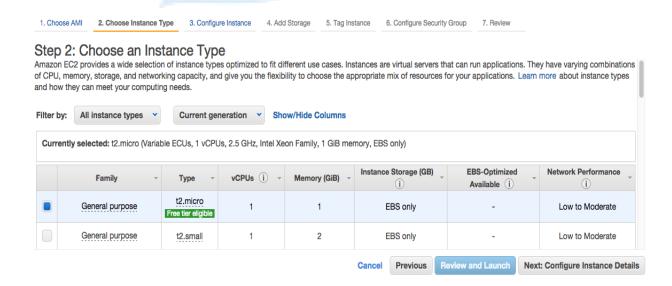
#### STEP#4: Select the AMI Linux EC2 instance

The Select an Amazon Machine Image (AMI) page displays a list of basic configurations called Amazon Machine Images (AMIs) that serve as templates for your instance. Select the Redhat Linux Base AMI.



#### STEP#5: Choose an Instance type for Linux EC2 instance

On the **Select an Instance Type** page, do not change any option and click on **Next, Configure Instance Details.** 

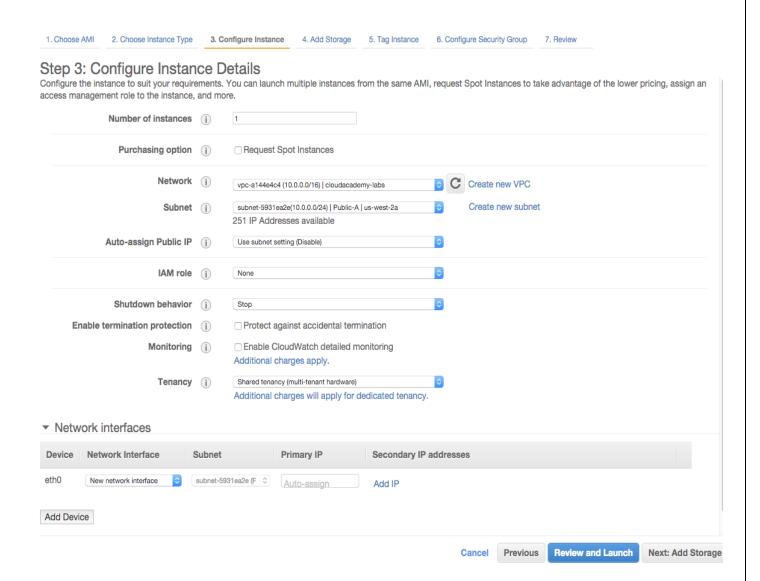






### **STEP#6** - Configure Instance

Check the selected Network (VPC) and Subnet. Change them if needed and then clickNext, Add Storage.

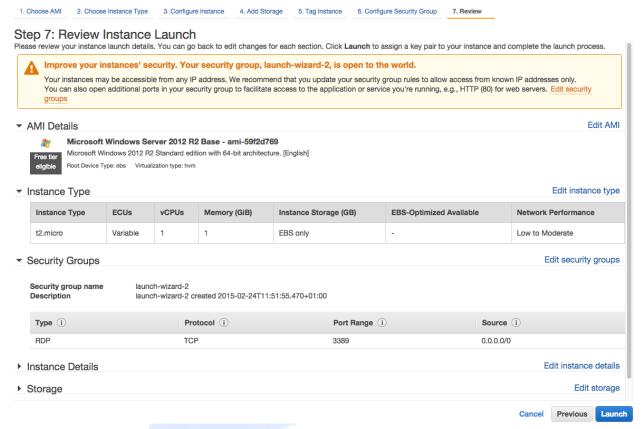






#### STEP#4 -Add Storage

Do not change any option and click "Review and Launch" button.



On the Review Instance Launch page, click Launch.

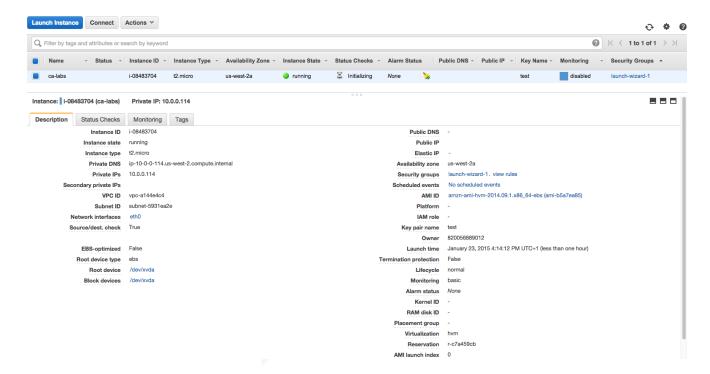
In the **Select an existing key pair or create a new key pair** dialog box, select **Create a new key pair**, then choose a KeyPair name and download it.

Select the acknowledgment check box, and then click Launch Instances.

A confirmation page will let you know that your instance is launching. Click **View Instances** to close the confirmation page and return to the console.

On the Instances screen, you can view the status of your instance. It will take a short time for your instance to be launched. When you launch an instance, its initial state is **pending**. After the instance starts, its state changes to **running**, and it receives a public DNS name.





STEP#7: Next, it will ask for Key.

### Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.

Proceed without a key pair

✓ I acknowledge that I will not be able to connect to this instance unless I already know the password built into this AMI.

Cancel

**Launch Instances** 

×



#### Launch Status



#### Initializing the server



#### Launch Status



Finally, the server status becomes running.



### Connect to a remote shell using a SSH connection

#### Convert a PEM key to a PPK key to access the server.

If you are a Windows user, you are probably using **Putty** for connecting to the remote instance. Putty is a great SSH client, but it does not natively support the PEM key format. Fortunately, PuTTY has a tool called **PuTTYgen**, which can convert keys to the required PuTTY format.

#### Converting a PEM key is an easy and fast operation:

- 1. Download the PuTTYgen executable from its main website: PuTTYgen
- 2. Start PuTTYgen (no installation required).
- 3. Click **Load** and browse to the location of the private key file that you want to convert (e.g. ec2key.pem). By default, PuTTYgen displays only files with extension .ppk; you'll need to change that to display files of all types in order to see your .pem key file.



4. Select your .pem key file and click **Open**. PuTTYgen displays the following message.



When you click **OK**, PuTTYgen displays a dialog box with information about the key you loaded, such as the public key and the fingerprint.

- 5. Click **Save private key** to save the key in PuTTY's format.
- 6. Do NOT select a passphrase and save your private key somewhere secure.





Now you are ready to use PuTTY for connecting to the previously created instance!

In order to manage a remote Linux server, you need to use an **SSH Client**. Secure SHell (SSH) is a cryptographic network protocol for securing data communication. It establishes a secure channel over an insecure network and common applications include remote command-line login, remote command execution.

#### **Connect using Linux / Mac OS**

Linux distributions and Mac OS are shipped with a fully working SSH client that accepts standard PEM Keys.

Starting a remote SSH session is quite easy:

- Open your **Terminal** application
- Write and run the following command: ssh -i /path/to/your/keypair.pem user@server-ip.

**server-ip** is the Public IP of your server, you can find it in the EC2 instance details.

user is the remote system user that will be used for the remote authentication.

Amazon Linux AMIs usually use ec2-user as username.

Ubuntu AMIs login user is ubuntu, Debian AMIs use admin instead.

Assuming that you selected the Amazon Linux AMI, your assigned public IP is 123.123.123.123, and your keypair (named "keypair.pem") is stored in /home/youruser/keypair.pem, the right command to run is: ssh -i

```
/home/youruser/keypair.pem ec2-user@123.123.123.123
```

**Note**: your SSH Client may refuse to start the connection warning that the key file is unprotected; you need to deny the file access to any other system user by changing its permissions. Issue the following command and then try again:

```
chmod 600 /home/youruser/keypair.pem
```

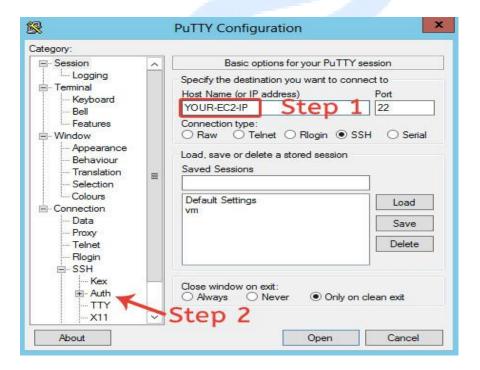




#### **Connect using Windows**

Windows hasn't any SSH client, so you need to use PuTTY and convert the PEM key to PPK using PuTTYgen. Starting a remote SSH session using PuTTY is easy:

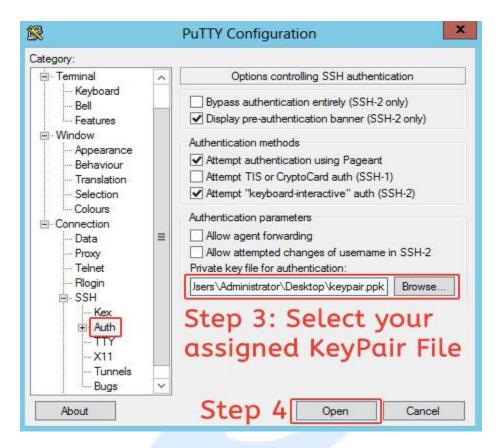
Open PuTTY and insert the EC2 instance IP Address in the Host Name field.







 Select Connection > SSH > Auth section and then select the downloaded Keypair that you previously converted to PPK format.



• After some seconds, you will see the authentication form. **Login as** ec2-user and you will see the EC2 server welcome banner.

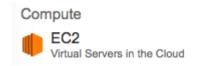


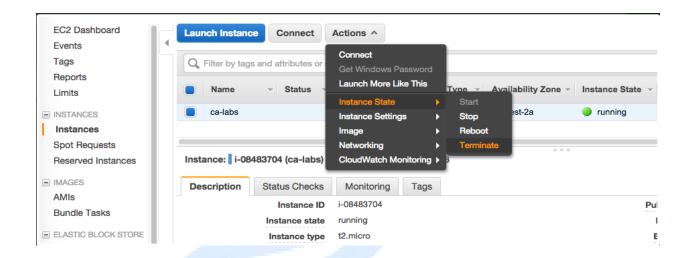


#### Terminate an EC2 instance

When you've decided that you no longer need an instance, you can terminate it.

Select the EC2 service from the Management Console dashboard:

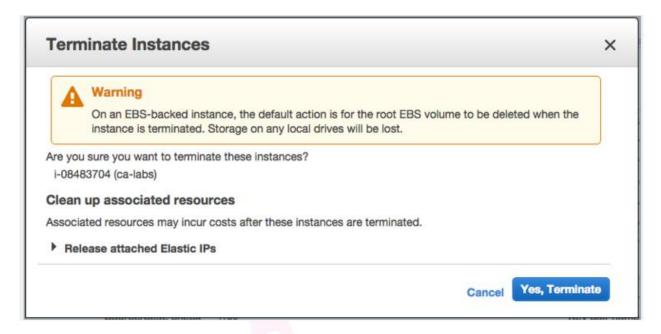




Select the instance ec2instance, click **Actions**, select **Instance State**, and then click **Terminate**.

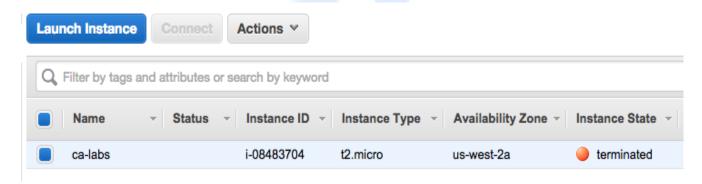
Click **Yes**, **Terminate** when prompted for confirmation.





Now your instance is completely destroyed.

Check the status of the server.



**Note:** We can't restive the server after terminating





#### About us

**SUVEN IT** established in 01-Jan--2010 by **Mr. kvreddi** having 20 years teaching and 17 years of real time work experience across USA & India, We are recognized as a leader in all IT training Courses to supply quality IT Professionals to Industry. SUVEN IT committed to provide high quality service with elevated level of student's satisfaction and provides the high end industry training and real time knowledge to students.

We trained and placed 3000+ Students in top MNC's within 6 Years (Most of them are selected in first interview)



By