

AWS Linux Instance

ESBP11 LAB 2

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Amazon EC2 Linux Instance

1. Selecting an Amazon Machine Image (AMI) → Amazon Linux AMI (Free tier eligible)

The screenshot shows the AWS Management Console interface for selecting an Amazon Machine Image (AMI). The top navigation bar includes the AWS logo, 'Services', 'Edit', and user information. The main content area is titled 'Step 1: Choose an Amazon Machine Image (AMI)' and includes a 'Cancel and Exit' link. A 'Quick Start' sidebar on the left lists 'My AMIs', 'AWS Marketplace', and 'Community AMIs', with a 'Free tier only' filter. The main list of AMIs includes:

- Amazon Linux** (ami-712b611): The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages. Root device type: ebs. Virtualization type: hvm. **Free tier eligible**. Select button.
- Red Hat Enterprise Linux 7.2 (HVM), SSD Volume Type** (ami-775e4f16): Red Hat Enterprise Linux version 7.2 (HVM), EBS General Purpose (SSD) Volume Type. Root device type: ebs. Virtualization type: hvm. Select button.
- SUSE Linux Enterprise Server 12 SP1 (HVM), SSD Volume Type** (ami-d2627db3): SUSE Linux Enterprise Server 12 Service Pack 1 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled. Root device type: ebs. Virtualization type: hvm. Select button.
- Ubuntu Server 14.04 LTS (HVM), SSD Volume Type** (ami-d7320b7): Ubuntu Server 14.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services). Root device type: ebs. Virtualization type: hvm. Select button.
- Microsoft Windows Server 2012 R2 Base** (ami-20e72546): Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English]. Root device type: ebs. Virtualization type: hvm. Select button.

At the bottom, there is a section titled 'Are you launching a database instance? Try Amazon RDS.' with a 'Launch a database using RDS' button.

2. Choosing an instance type page → t2.micro - Default (Free tier eligible)

The screenshot shows the AWS Management Console interface for selecting an instance type. The top navigation bar includes the AWS logo, 'Services', 'Edit', and user information. The main content area is titled 'Step 2: Choose an Instance Type' and includes a 'Cancel and Exit' link. A 'Filter by:' section shows 'All instance types', 'Current generation', and 'Show/Hide Columns'. The main table lists instance types with columns for Family, Type, vCPUs, Memory (GiB), Instance Storage (GiB), EBS-Optimized Available, and Network Performance. The 't2.micro' instance type is highlighted as 'Free tier eligible'.

Family	Type	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance
General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate
General purpose	t2.micro (Free tier eligible)	1	1	EBS only	-	Low to Moderate
General purpose	t2.small	1	2	EBS only	-	Low to Moderate
General purpose	t2.medium	2	4	EBS only	-	Low to Moderate
General purpose	t2.large	2	8	EBS only	-	Low to Moderate
General purpose	m4.large	2	8	EBS only	Yes	Moderate
General purpose	m4.xlarge	4	16	EBS only	Yes	High
General purpose	m4.2xlarge	8	32	EBS only	Yes	High
General purpose	m4.4xlarge	16	64	EBS only	Yes	High
General purpose	m4.10xlarge	40	160	EBS only	Yes	10 Gbps
General purpose	m3.medium	1	3.75	1 x 4 (SSD)	-	Moderate
General purpose	m3.large	2	7.5	1 x 32 (SSD)	-	Moderate
General purpose	m3.xlarge	4	15	2 x 48 (SSD)	-	High

At the bottom, there are buttons for 'Cancel', 'Previous', 'Review and Launch', and 'Next: Configure Instance Details'.

3. Review instance launch → Launch

Step 7: Review Instance Launch
Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

Improve your instances' security. Your security group, launch-wizard-7, is open to the world. Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

AMI Details [Edit AMI](#)
Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-d732f0b7
Free tier eligible
Root Device Type: ebs Virtualization type: hvm

Instance Type [Edit instance type](#)
Instance Type: t2.micro ECUs: Variable vCPUs: 1 Memory (GiB): 1 Instance Storage (GB): EBS only EBS-Optimized Available: - Network Performance: Low to Moderate

Security Groups [Edit security groups](#)
Security group name: launch-wizard-7
Description: launch-wizard-7 created 2016-07-25T19:49:35.746+05:30

Type	Protocol	Port Range	Source
SSH	TCP	22	0.0.0.0/0

Instance Details [Edit instance details](#)
Storage [Edit storage](#)
Tags [Edit tags](#)

[Cancel](#) [Previous](#) [Launch](#)

4. Create a new key pair → Download Key Pair

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.](#)

Create a new key pair
Key pair name: manoj123 [Download Key Pair](#)

You have to download the **private key file** (*.pem file) before you can continue. Store it in a **secure and accessible location**. You will not be able to download the file again after it's created.

[Cancel](#) [Launch Instances](#)

5. Launching Instance

AWS

Services

Edit

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Oregon

Support

Launch Status

Your instances are now launching

The following instance launches have been initiated: i-0260ba49d0d709ea5 [View launch log](#)

Get notified of estimated charges

Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances. Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. Find out how to connect to your instances.

Here are some helpful resources to get you started

How to connect to your Linux instance

Learn about AWS Free Usage Tier

Amazon EC2: User Guide

Amazon EC2: Discussion Forum

While your instances are launching you can also

Create status check alarms to be notified when these instances fail status checks. (Additional charges may apply)

Create and attach additional EBS volumes. (Additional charges may apply)

Manage security groups

View Instances

Feedback

English

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6. Instance is up and running

AWS

Services

Edit

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Oregon

Support

EC2 Dashboard

Events

Tags

Reports

Limits

INSTANCES

Instances

Spot Requests

Reserved Instances

Scheduled Instances

Dedicated Hosts

IMAGES

AMIs

Bundle Tasks

ELASTIC BLOCK STORE

Volumes

Snapshots

NETWORK & SECURITY

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

LOAD BALANCING

Load Balancers

AUTO SCALING

Launch

Configurations

Auto Scaling Groups

COMMANDS

Command History

Documents

Managed Instance

Launch Instance

Connect

Actions

Filter by tags and attributes or search by keyword

< < 1 to 3 of 3 > >

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP	Key Name	Monitoring	Launch Time
	i-0260ba49d0d709ea5	t2.micro	us-west-2a	running	Initializing	None	ec2-52-42-189-169-us-w...	52.42.189.169	manoj123	disabled	July 25, 2016 at 7:51:09 PM ...
	i-071426dc05fc09fa	t2.micro	us-west-2a	running	2/2 checks	None	ec2-52-32-203-146-us-w...	52.32.203.146	manojamarase...	disabled	July 22, 2016 at 3:07:15 PM ...
	i-0eb999e0cc4ad74cd	t2.micro	us-west-2a	running	2/2 checks	None	ec2-52-39-44-186-us-we...	52.39.44.186	manojamarase...	disabled	July 22, 2016 at 3:08:45 PM ...

Select an instance above

Feedback

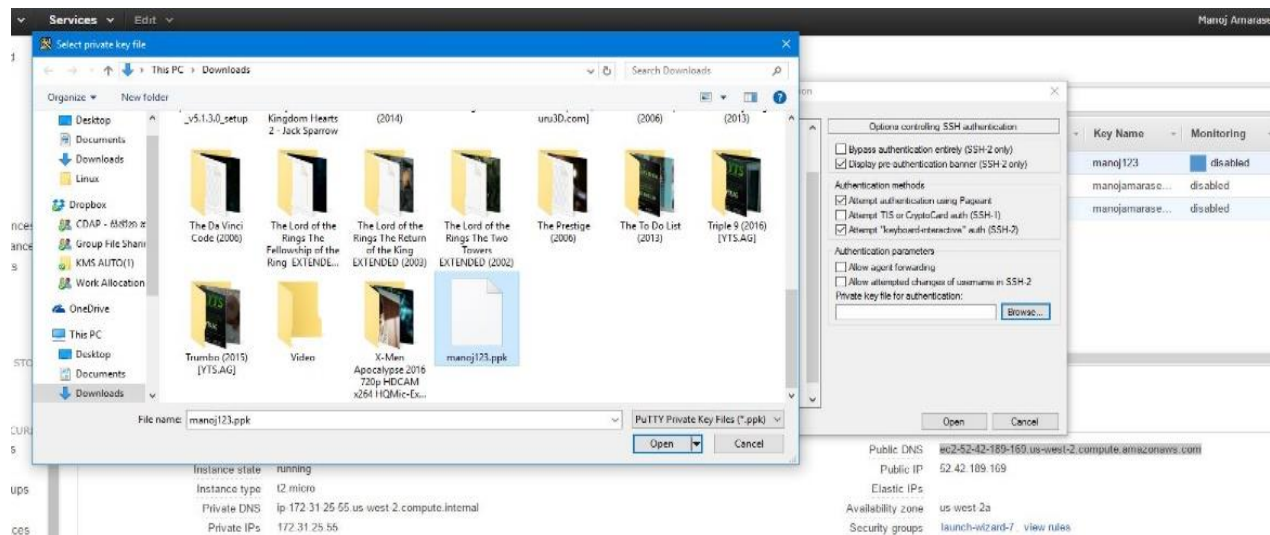
English

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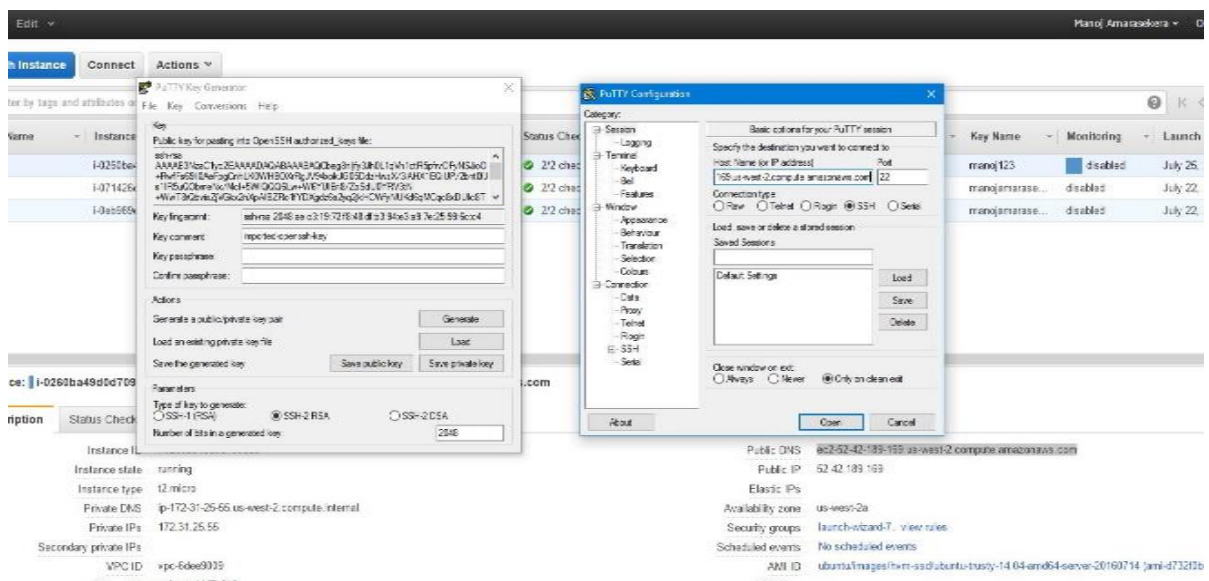
3 | Page

Connect to the instance

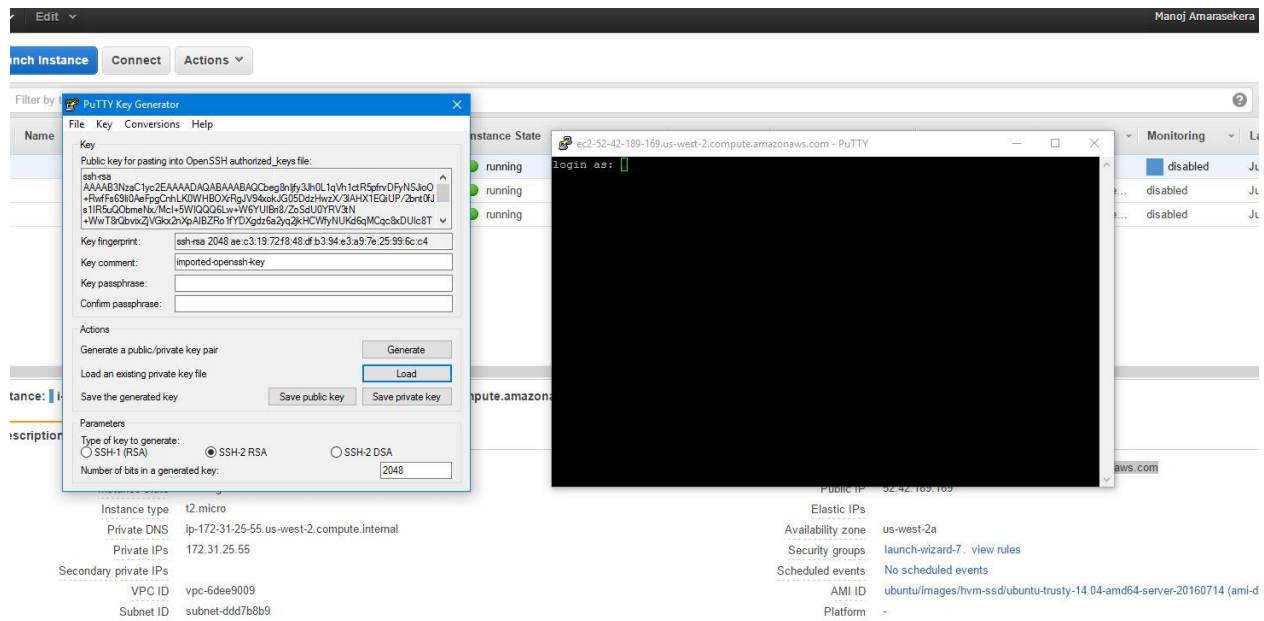
7. Converting key pair (.pem) into private key (.ppk) by Putty Key Generator.



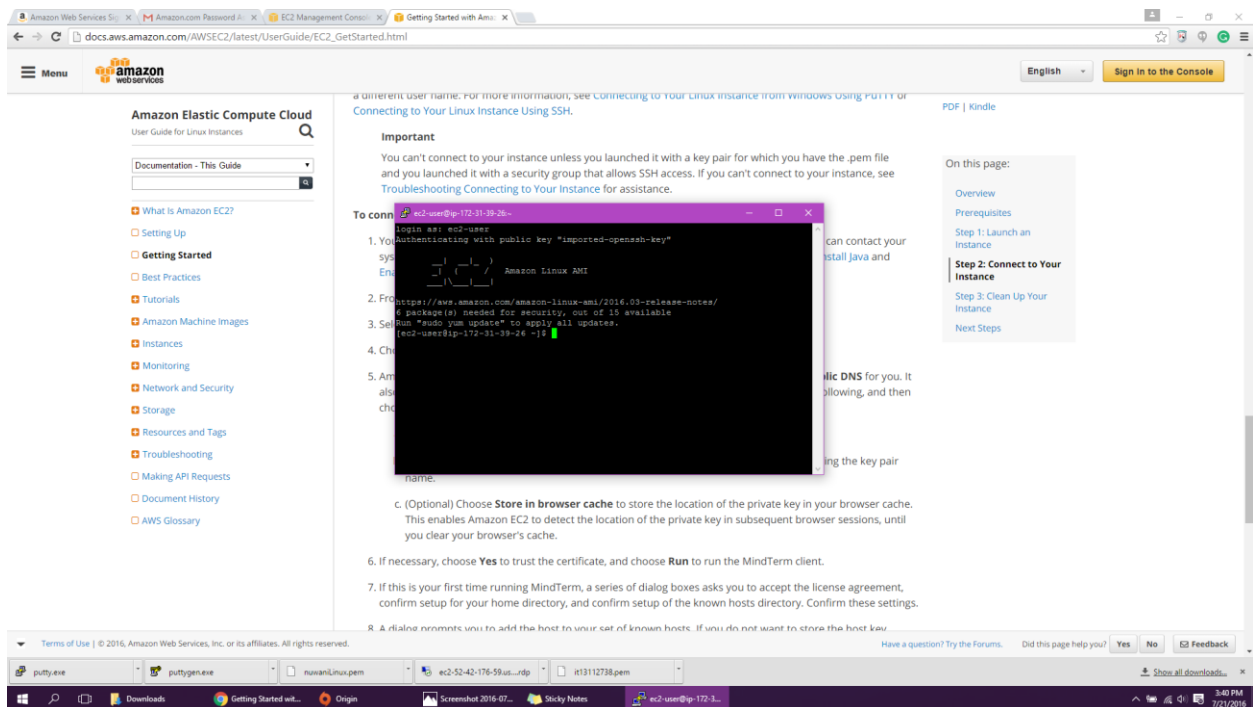
8. Connect through Putty using public IP by key pair (.ppk)



9. Launch SSH Client



10. User name = ec2-user → Connected to instance



11. Creating a Python file to add numbers and generate output.

