



# SLIIT

COMPUTING

BUSINESS

ENGINEERING

## **Enterprise Standards and Best Practices for IT Infrastructure**

**Lab Assignment 01 & 02**

**Getting Started with Amazon EC2 Windows &  
Linux Instances**

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IT13085568

# Creating an Instance for windows

## Prerequisites

First of all, be sure that you've completed the steps in Setting Up with Amazon EC2.

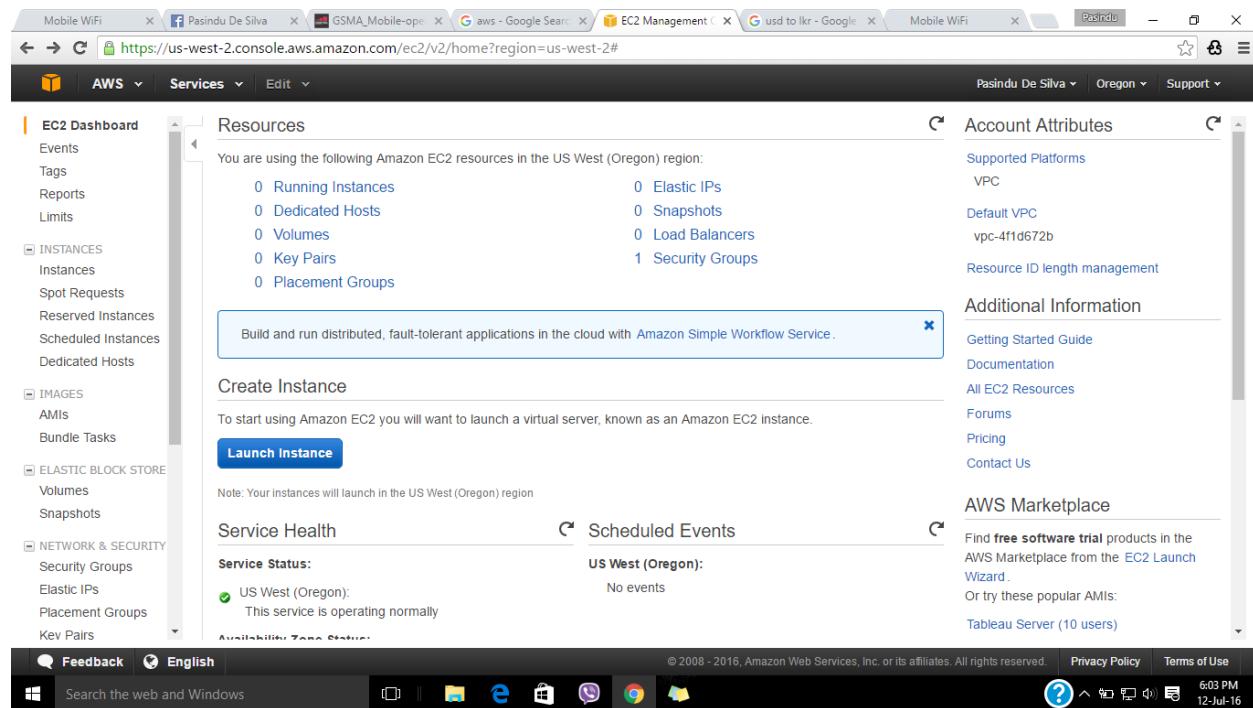
## Setting Up with Amazon EC2

If you've already signed up for Amazon Web Services (AWS), you can start using Amazon EC2 immediately. You can open the Amazon EC2 console, click **Launch Instance**, and follow the steps in the launch wizard to launch your first instance.

If you haven't signed up for AWS yet, or if you need assistance launching your first instance, complete the sign up to get set up to use Amazon EC2:

### 1. Launch an Instance to creating a new Windows Instance

Open the Amazon EC2 console at <https://console.aws.amazon.com/ec2/>. And choose **Launch Instance**.



## 2. Choose an Amazon machine image (AMI)

From the available Amazon machine images choose a Microsoft Windows server 2012R2 Base.

The screenshot shows the AWS EC2 Launch Instance Wizard Step 1: Choose an Amazon Machine Image (AMI). The page lists three AMI options:

- 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 (64-bit)
- Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-9abea4fb**  
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 (64-bit)
- Microsoft Windows Server 2012 R2 Base - ami-8d0acfed**  
Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English]  
Root device type: ebs Virtualization type: hvm  
**Select** button (64-bit)

A message box at the bottom asks: "Are you launching a database instance? Try Amazon RDS." It provides information about Amazon RDS and includes a "Hide" link.

The screenshot shows the Windows 8.1 Start Screen. The taskbar at the bottom includes icons for Feedback, English, Search (Search the web and Windows), Task View, File Explorer, Edge, Mail, Photos, and Google Chrome. The system tray shows the date and time as 6:04 PM 12-Jul-16.

## 3. Choose an Instance type.

The screenshot shows the AWS EC2 Launch Instance Wizard Step 2: Choose an Instance Type. The page lists various instance types under the "Current generation" filter:

Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate
General purpose	<b>t2.micro</b> <small>Free tier eligible</small>	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

Buttons at the bottom include: Cancel, Previous, Review and Launch, and Next: Configure Instance Details.

The screenshot shows the Windows 8.1 Start Screen. The taskbar at the bottom includes icons for Feedback, English, Search (Search the web and Windows), Task View, File Explorer, Edge, Mail, Photos, and Google Chrome. The system tray shows the date and time as 6:06 PM 12-Jul-16.

4. Configure the instance details (No need to do any additional modifications. Keep them as it is )

**Step 3: Configure Instance Details**

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

**Number of instances**: 1

**Purchasing option**: Request Spot instances

**Network**: vpc-4f1d672b (172.31.0.0/16) (default)

**Subnet**: No preference (default subnet in any Availability Zone)

**Auto-assign Public IP**: Use subnet setting (Enable)

**Domain join directory**: None

**IAM role**: None

**Shutdown behavior**: Stop

**Enable termination protection**: Protect against accidental termination

**Monitoring**: Enable CloudWatch detailed monitoring

**Buttons**: Cancel, Previous, **Review and Launch**, Next: Add Storage

5. Add storage

**Step 4: Add Storage**

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/sda1	snap-1baab85d	30	General Purpose SSD (GP2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

**Add New Volume**

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

**Buttons**: Cancel, Previous, **Review and Launch**, Next: Tag Instance

## 6. Review instance launch

The screenshot shows the AWS EC2 Launch Instance Wizard at Step 7: Review Instance Launch. The URL is <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard>. The page displays the following information:

- Step 7: Review Instance Launch**
- AMI Details:** Microsoft Windows Server 2012 R2 Base - ami-8d0acfed (Free tier eligible). It's a 64-bit architecture with 1 vCPU, 1 GiB memory, and EBS storage.
- Instance Type:** t2.micro (Variable, 1 vCPU, 1 GiB memory, EBS only storage, Low to Moderate network performance).
- Security Group:** launch-wizard-1 (Open to the world, accessible from any IP address).
- Launch Buttons:** Cancel, Previous, Launch.

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

The screenshot shows the AWS EC2 Launch Instance Wizard at Step 7: Review Instance Launch. A modal dialog titled "Select an existing key pair or create a new key pair" is open. The dialog contains the following steps:

- Create a new key pair (dropdown menu)
- Key pair name: pasindulab1 (input field)
- Download Key Pair (button)

The main page background shows the same configuration as the previous screenshot, including the AMI selection and instance type. The "Launch" button is visible at the bottom right of the main page.

## 8. Launch instance

The screenshot shows the AWS EC2 Launch Instance Wizard at the 'Launch Status' step. A green success message box states: "Your instances are now launching. The following instance launches have been initiated: i-0673420c823f11b18" with a link to "View launch log". Below this, a blue info box says: "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)." A section titled "How to connect to your instances" provides instructions and links to helpful resources like the User Guide and Microsoft Windows Guide.

Your instances are now launching. The following instance launches have been initiated: i-0673420c823f11b18 [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

- [Amazon EC2: User Guide](#)
- [How to connect to your Windows instance](#)
- [Amazon EC2: Microsoft Windows Guide](#)
- [Amazon EC2: Diagnostic Forum](#)

## 9. Connecting to the instance.

The screenshot shows the AWS EC2 Instances page. The left sidebar is collapsed. The main area displays a table of instances. One row is selected, showing details for instance i-0673420c823f11b18, which is a t2.micro type running in us-west-2a. The Public DNS is ec2-52-36-185-139.us-west-2.compute.amazonaws.com and the Public IP is 52.36.185.139. Below the table, a detailed view for the selected instance shows its ID, state, and network information.

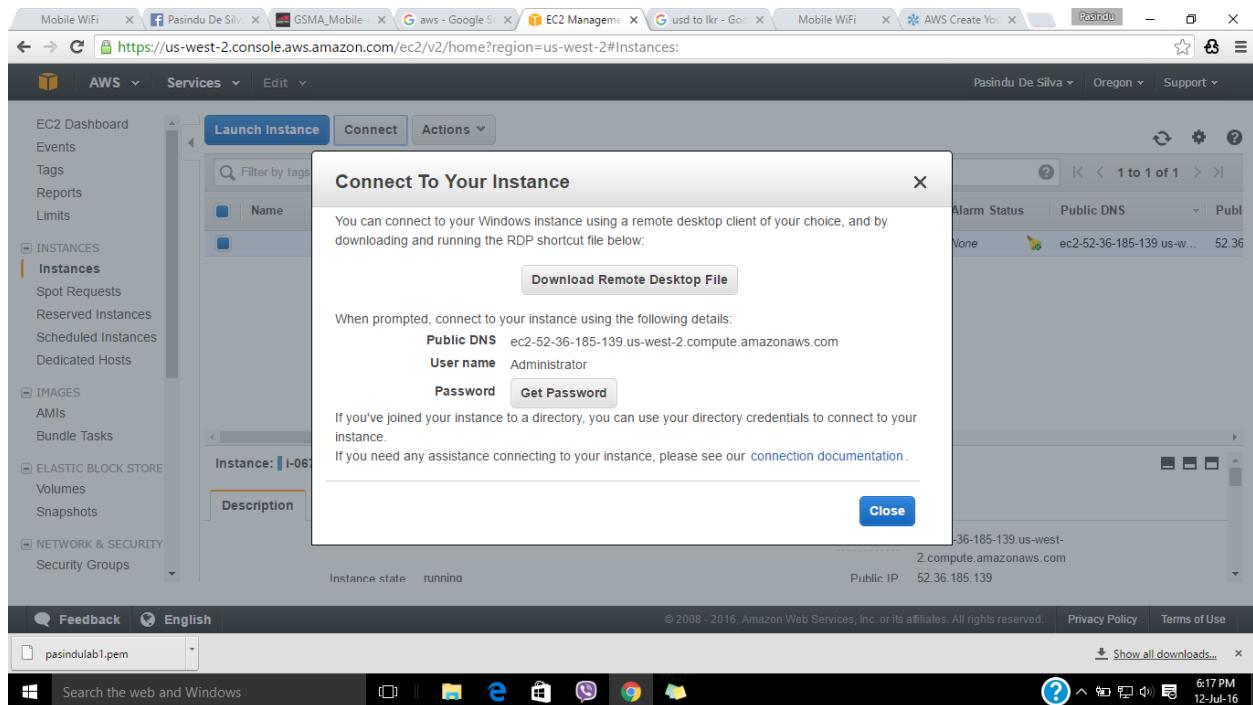
Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP
	i-0673420c823f11b18	t2.micro	us-west-2a	running	Initializing	None	ec2-52-36-185-139.us-west-2.compute.amazonaws.com	52.36.185.139

Instance: i-0673420c823f11b18 Public DNS: ec2-52-36-185-139.us-west-2.compute.amazonaws.com

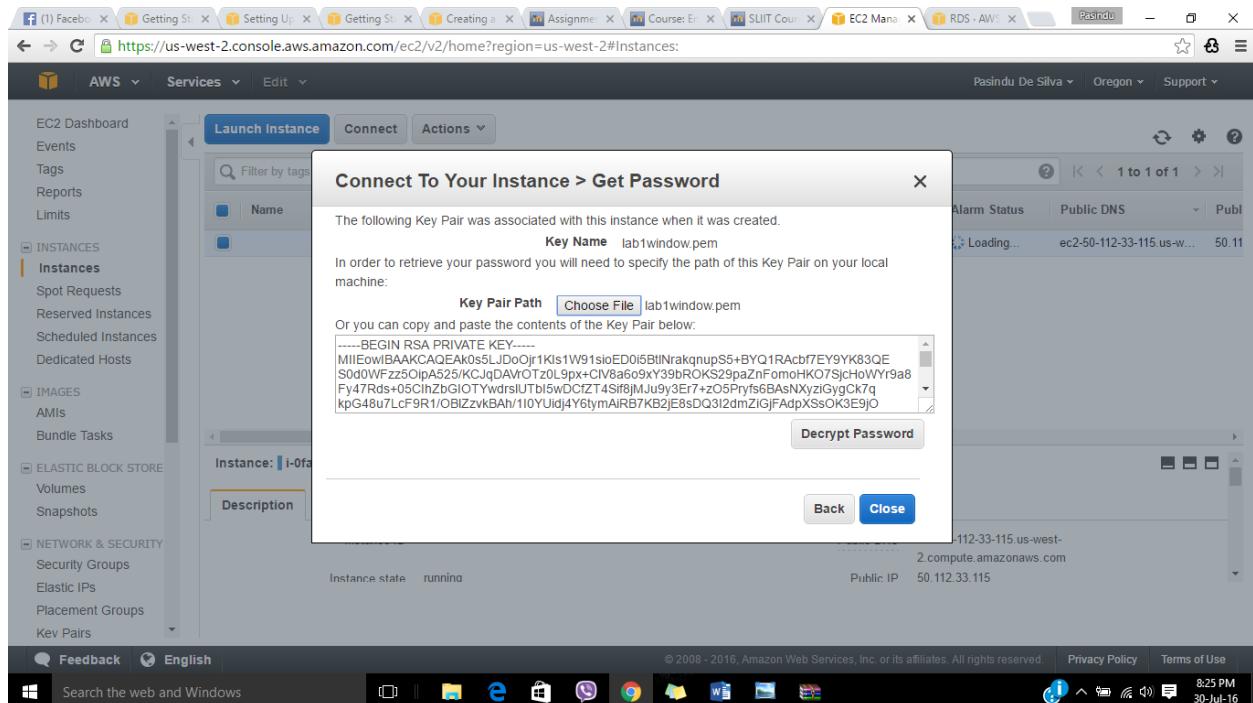
Description

Instance ID: i-0673420c823f11b18  
Instance state: running  
Public DNS: ec2-52-36-185-139.us-west-2.compute.amazonaws.com  
Public IP: 52.36.185.139

10. Connect to your windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below.



11. Connecting to the instance. The following key pair was associated with this instance when it was created.



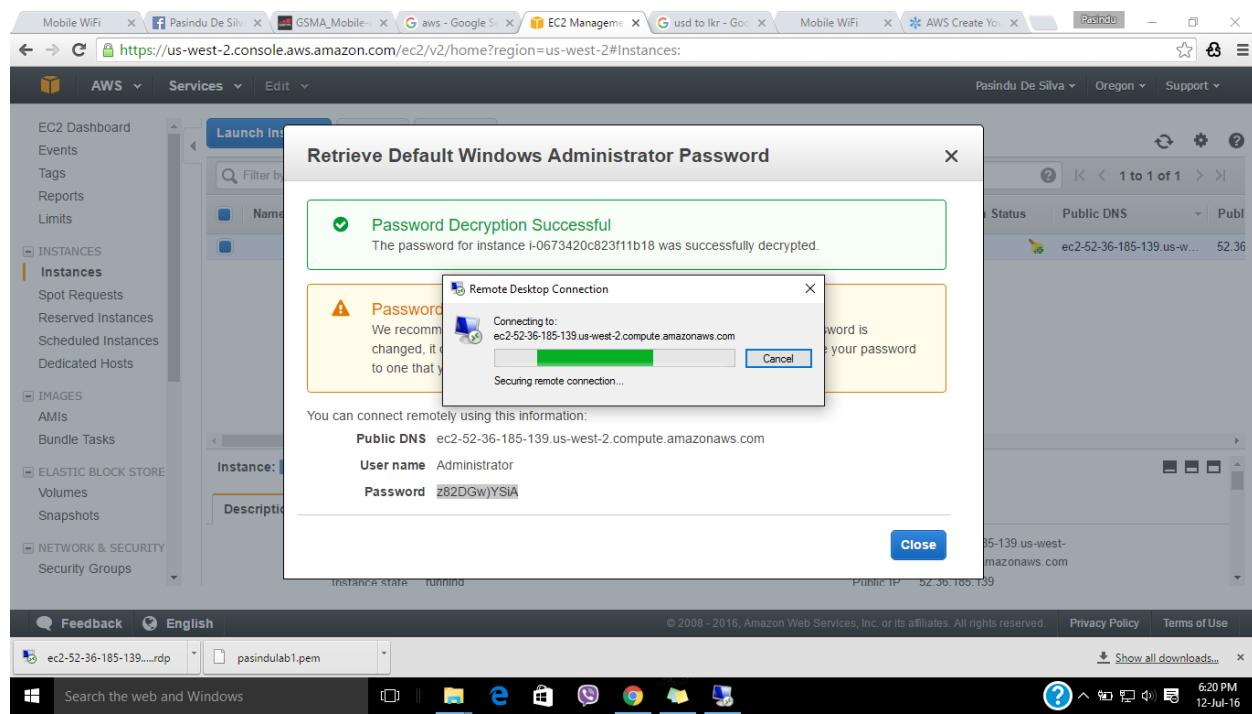
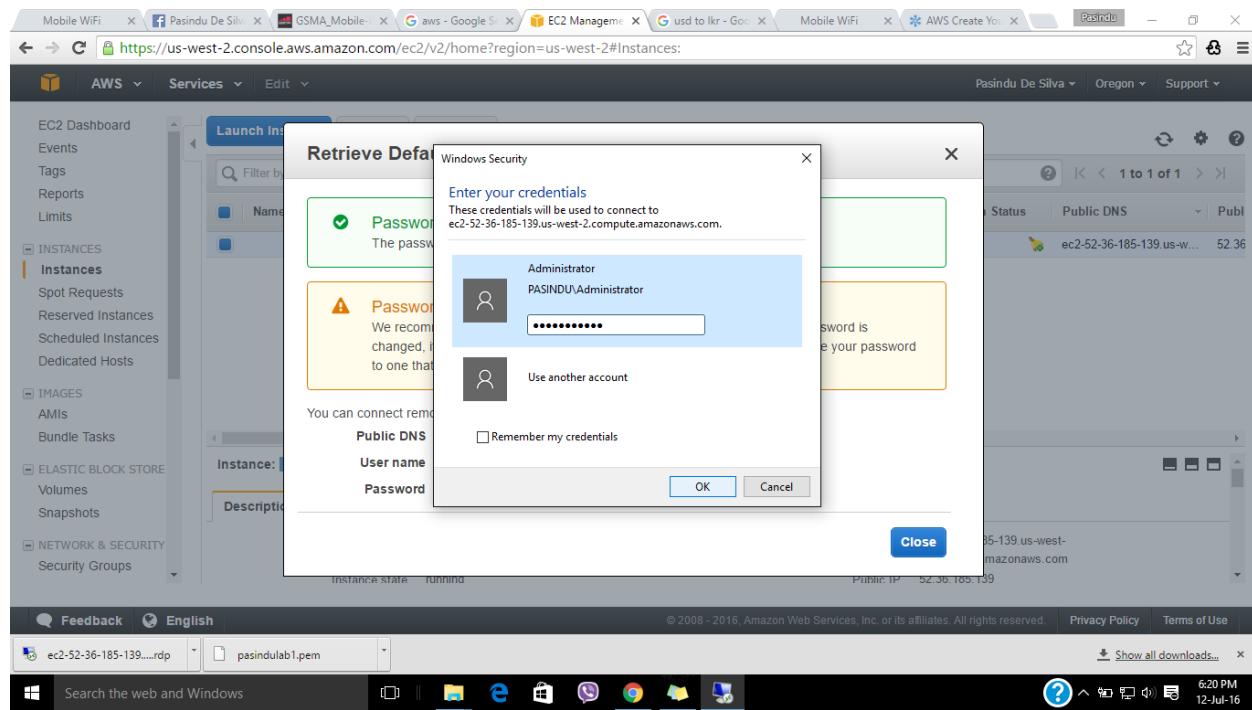
12. After decrypting the key value we can get the user name and the password.

The screenshot shows the AWS EC2 Instances page. A modal window titled "Connect To Your Instance" is open. It contains instructions for connecting via RDP, with a "Download Remote Desktop File" button. Below this, it lists the Public DNS, User name (Administrator), and Password (A3@ayp%Lct&). A note says if you've joined your instance to a directory, you can use your directory credentials to connect. There's also a link to connection documentation and a "Close" button. At the bottom of the main EC2 page, there's a table with instance details: Instance ID (i-0fab934f060fec92d), Instance state (running), Public DNS (ec2-50-112-33-115.us-west-2.compute.amazonaws.com), and Public IP (50.112.33.115).

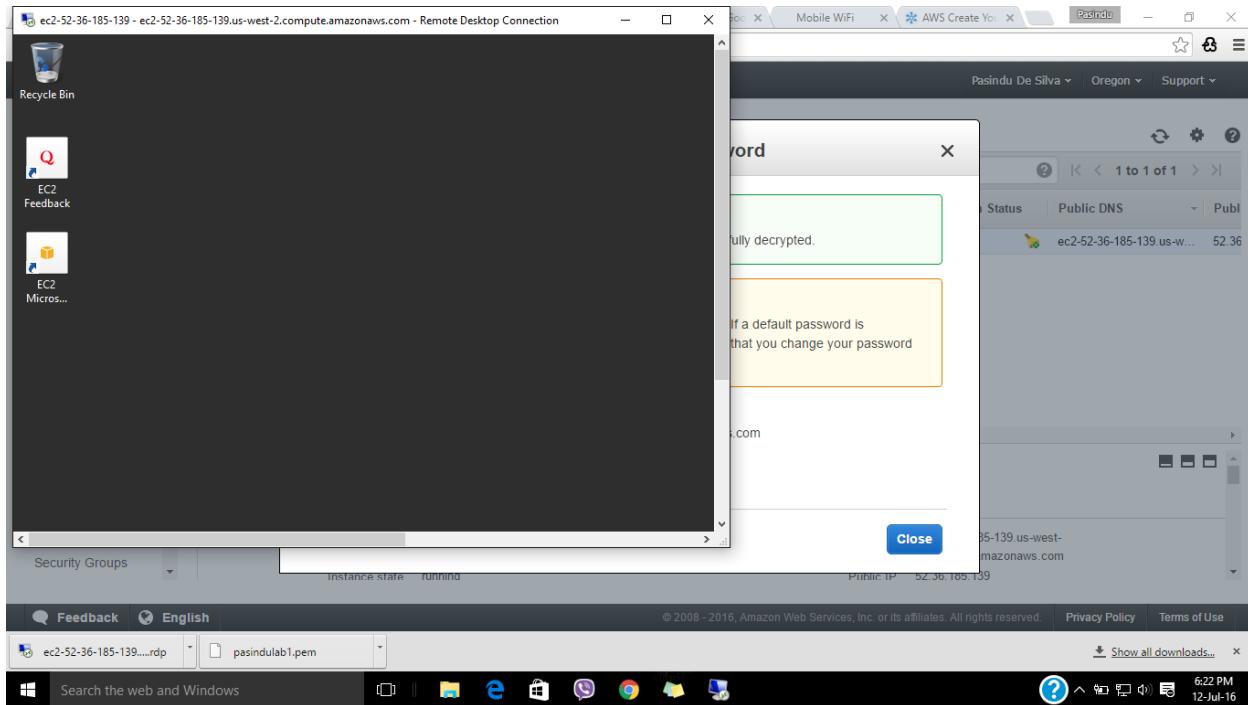
13. Get the remote desktop connection. Provide the public IP address.

The screenshot shows the AWS EC2 Instances page. A modal window titled "Remote Desktop Connection" is open. It displays a warning: "The publisher of this remote connection can't be identified. Do you want to connect anyway?". It includes information about the publisher (Unknown publisher), type (Remote Desktop Connection), and remote computer (ec2-52-36-185-139.us-west-2.compute.amazonaws.com). There are checkboxes for "Don't ask me again for connections to this computer" and "Show Details". Below the dialog, the main EC2 page shows instance details: Instance ID (i-0673420c823f11b), Instance state (running), Public DNS (ec2-52-36-185-139.us-west-2.compute.amazonaws.com), and Public IP (52.36.185.139).

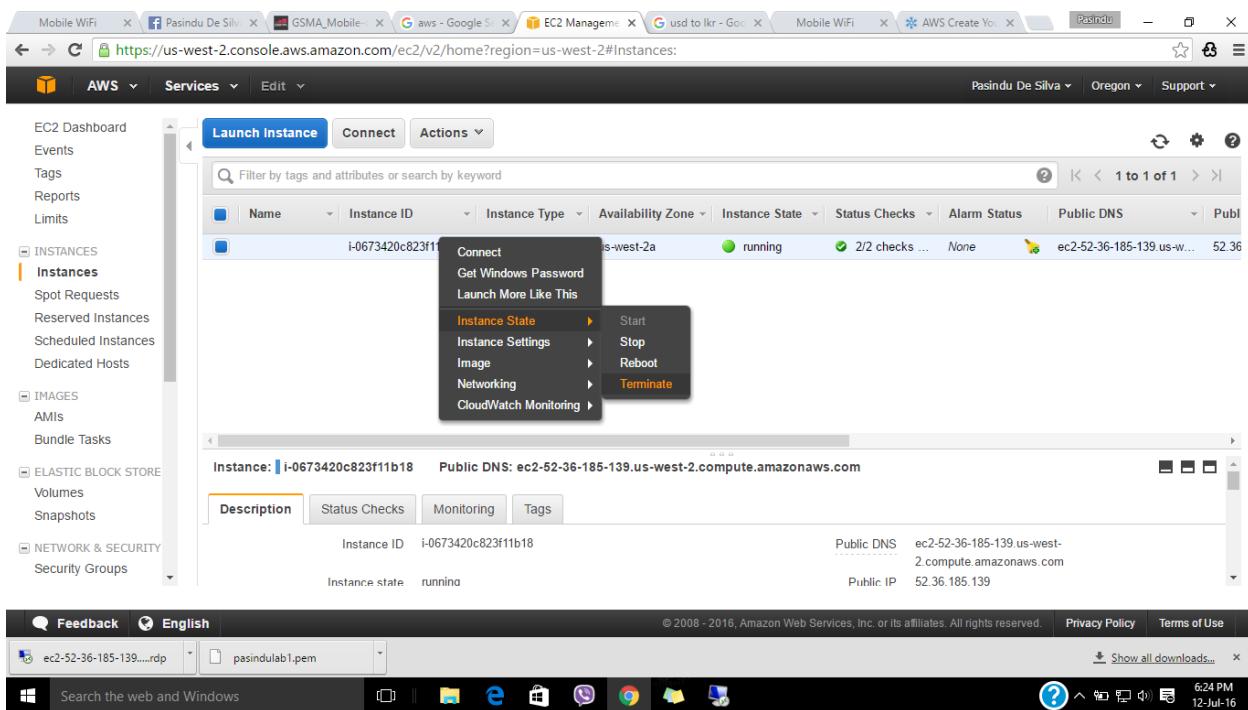
14. Provide user name as Administrator and the encrypted password.



## 15. Finally you will be connected to the windows remote instance.



## 16. Terminate the windows remote instance.



The screenshot shows the AWS Management Console EC2 Instances page. A modal dialog box titled "Terminate Instances" is open, containing a warning message: "On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost." Below the message, it asks, "Are you sure you want to terminate these instances?" followed by the instance ID "i-0673420c823f11b18". At the bottom right of the dialog are "Cancel" and "Yes, Terminate" buttons.

On the main page, the instance "i-0673420c823f11b18" is listed with the following details:

Instance ID	Public DNS
i-0673420c823f11b18	ec2-52-36-185-139.us-west-2.compute.amazonaws.com
Instance state	Public IP
running	52.36.185.139

The browser status bar at the bottom shows "6:24 PM 12-Jul-16".

The screenshot shows the same AWS EC2 Instances page after the instance has been terminated. The instance "i-0673420c823f11b18" is now listed with a red "terminated" status under the "Status Checks" column.

On the main page, the instance "i-0673420c823f11b18" is listed with the following details:

Instance ID	Public DNS
i-0673420c823f11b18	-
Instance state	Public IP
terminated	52.36.185.139

The browser status bar at the bottom shows "6:26 PM 12-Jul-16".

# Creating an Instance for linux

## 1. Choose an Amazon Machine image (AMI) to create a linux instance.

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Quick Start

My AMIs

Amazon Linux AMI 2016.03.3 (HVM), SSD Volume Type - ami-7172b611  
Amazon Linux Free tier eligible 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 Select 64-bit

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 Red Hat Enterprise Linux Free tier eligible Root device type: ebs Virtualization type: hvm Select 64-bit

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. SUSE Linux Free tier eligible Select 64-bit



## 2. Choose an instance type for the linux.

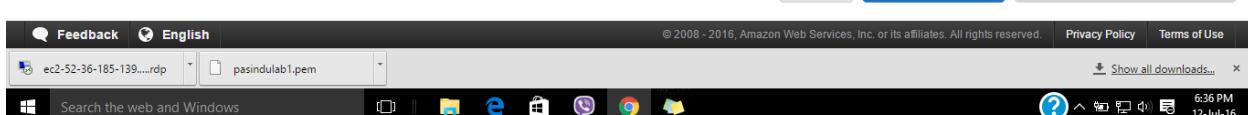
Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation Show/Hide Columns

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate

Cancel Previous Review and Launch Next: Configure Instance Details



### 3. Configure instance details.

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances: 1

Purchasing option: Request Spot instances

Network: vpc-4f1d672b (172.31.0.0/16) (default)

Subnet: No preference (default subnet in any Availability Zone)

Auto-assign Public IP: Use subnet setting (Enable)

IAM role: None

Shutdown behavior: Stop

Enable termination protection: Protect against accidental termination

Monitoring: Enable CloudWatch detailed monitoring

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### 4. Add storage. We can attach additional ESB volumes and instance store volumes to your instance, or edit the settings of the root volume.

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/xvda	snap-d465048a	8	General Purpose SSD (GP2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

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**Step 5: Tag Instance**

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. [Learn more](#) about tagging your Amazon EC2 resources.

Key	(127 characters maximum)	Value	(255 characters maximum)
Name		Webserver	

**Create Tag** (Up to 10 tags maximum)

**Review and Launch**

5. Configure the security group. It is a set of firewall rules that control the traffic for your instance. We can add rules to allow specific traffic to reach your instance.

**Step 6: Configure Security Group**

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

**Assign a security group:**

- Create a new security group
- Select an existing security group

**Security group name:** launch-wizard-2

**Description:** launch-wizard-2 created 2016-07-12T18:37:23.276+05:30

Type	Protocol	Port Range	Source
SSH	TCP	22	Anywhere

**Add Rule**

**Warning**  
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

**Review and Launch**

## 6. Then review instance 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.

**AMI Details**

**Instance Type**

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

**Launch**

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## 7. Selecting an existing key pair or create a new key pair. Then it will help to download the .pem file.

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.

**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: linuxlab1  
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.

**Launch Instances**

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The screenshot shows the AWS Launch Instance Wizard at the 'Launch Status' step. The URL is <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard>. The page displays a green success message: 'Your instances are now launching' with instance ID i-013ecee53f6007cb0 and a link to 'View launch log'. It also includes a blue info message about estimated charges.

## Launch Status

This section of the wizard provides status information and configuration options. It includes a green box for launching instances and a blue box for estimated charges. Below these are sections for connecting to instances and helpful resources.

### 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](#)
- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

A screenshot of a Windows desktop environment. The taskbar shows several open browser tabs, including the AWS console. The system tray indicates the date and time as 6:38 PM on 12-Jul-16.

The screenshot shows the AWS Instances screen. The URL is <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:>. The main area displays a table of instances. One instance is listed as 'running' (t2.micro, us-west-2b) and another is 'terminated' (t2.micro, us-west-2a).

### 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

A screenshot of a Windows desktop environment. The taskbar shows several open browser tabs, including the AWS console. The system tray indicates the date and time as 6:45 PM on 12-Jul-16.

## 8. Download putty.exe and puttyGen.exe.

To download :- <http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>

This will generally be a version we think is reasonably likely to work well. If you have a problem with the release version, it might be worth trying out the latest development snapshot (below) to see if we've already fixed the bug, before reporting it.

**For Windows on Intel x86**

PuTTY:	<a href="#">putty.exe</a>	(or by FTP)	(signature)
PuTTYtel:	<a href="#">puttytel.exe</a>	(or by FTP)	(signature)
PSCP:	<a href="#">pscp.exe</a>	(or by FTP)	(signature)
PSFTP:	<a href="#">psftp.exe</a>	(or by FTP)	(signature)
Plink:	<a href="#">plink.exe</a>	(or by FTP)	(signature)
Pageant:	<a href="#">pageant.exe</a>	(or by FTP)	(signature)
PuTTYgen:	<a href="#">puttygen.exe</a>	(or by FTP)	(signature)

A ZIP file containing all the binaries (except PuTTYtel), and also the help files  
Zip file: [putty.zip](#) (or by FTP) (signature)

A Windows MSI installer package for everything except PuTTYtel  
Installer: [putty-0.67-installer.msi](#) (or by FTP) (signature)

Legacy Inno Setup installer. **Reportedly insecure!** Use with caution, if the MSI fails.  
Legacy installer: [putty-0.67-installer.exe](#) (or by FTP) (signature)

**Checksums for all the above files**

MD5:	<a href="#">md5sums</a>	(or by FTP)	(signature)
SHA-1:	<a href="#">sha1sums</a>	(or by FTP)	(signature)
SHA-256:	<a href="#">sha256sums</a>	(or by FTP)	(signature)
SHA-512:	<a href="#">sha512sums</a>	(or by FTP)	(signature)

**The latest development snapshot**

This will be built every day, automatically, from the current development code - in whatever state it's currently in. If you need a fix for a particularly inconvenient bug, you may well be able to find a fixed PuTTY here well before the fix makes it into the release version above. On the other hand, these snapshots might sometimes be unstable.

(The filename of the development snapshot installer contains the snapshot date, so it will change every night.)



## 9. Run the putty key

Amazon Elastic Compute Cloud

User Guide for Microsoft Windows Instances

Documentation - This Guide

What Is Amazon EC2?

Setting Up

Getting Started

Best Practices

Tutorials

Amazon Machine Images

Instances

Monitoring

Network and Security

Storage

Next Steps

Overview

Session

Logging

Terminal

Keyboard

Bell

Features

Window

Appearance

Behaviour

Translation

Selection

Colours

Connection

Data

Proxy

Telnet

Rlogin

SSH

Serial

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address):  Port:

Connection type:  Raw  Telnet  Rlogin  SSH  Serial

Load, save or delete a stored session

Saved Sessions

Default Settings

Load Save Delete

Close window on exit:  Always  Never  Only on clean exit

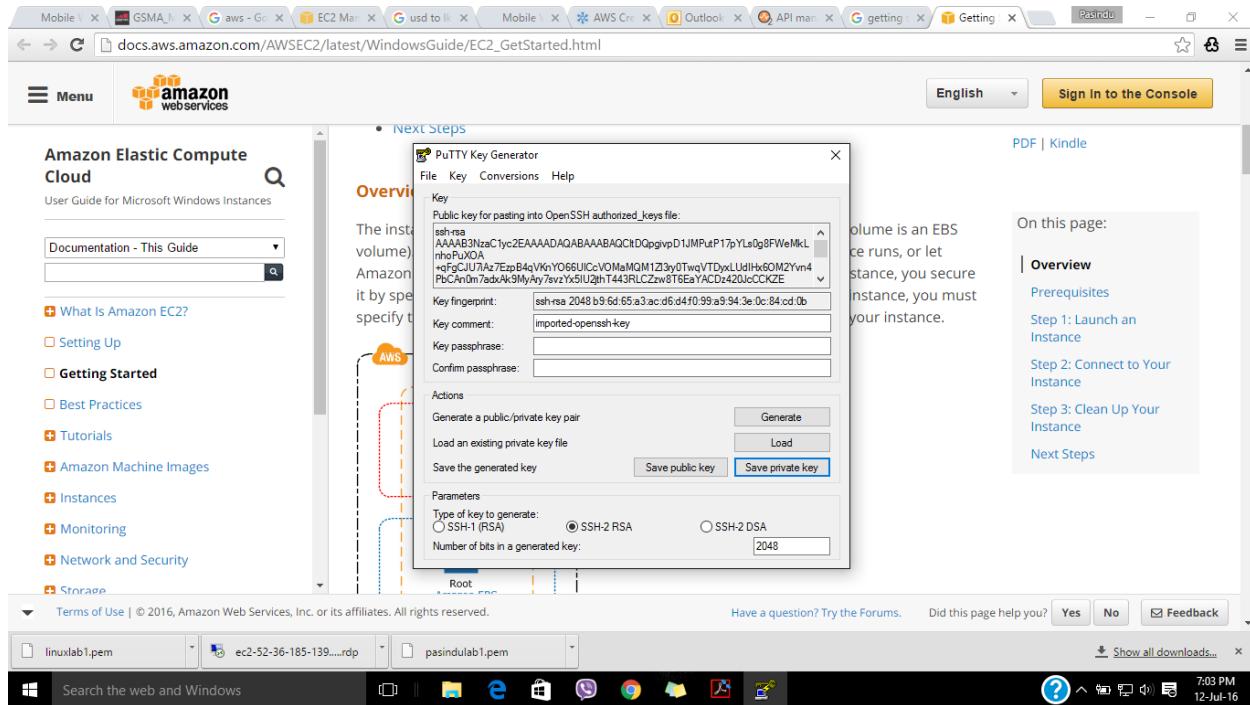
Open Cancel

volume is an EBS volume. Once runs, or let instance, you secure your instance, you must stop your instance.

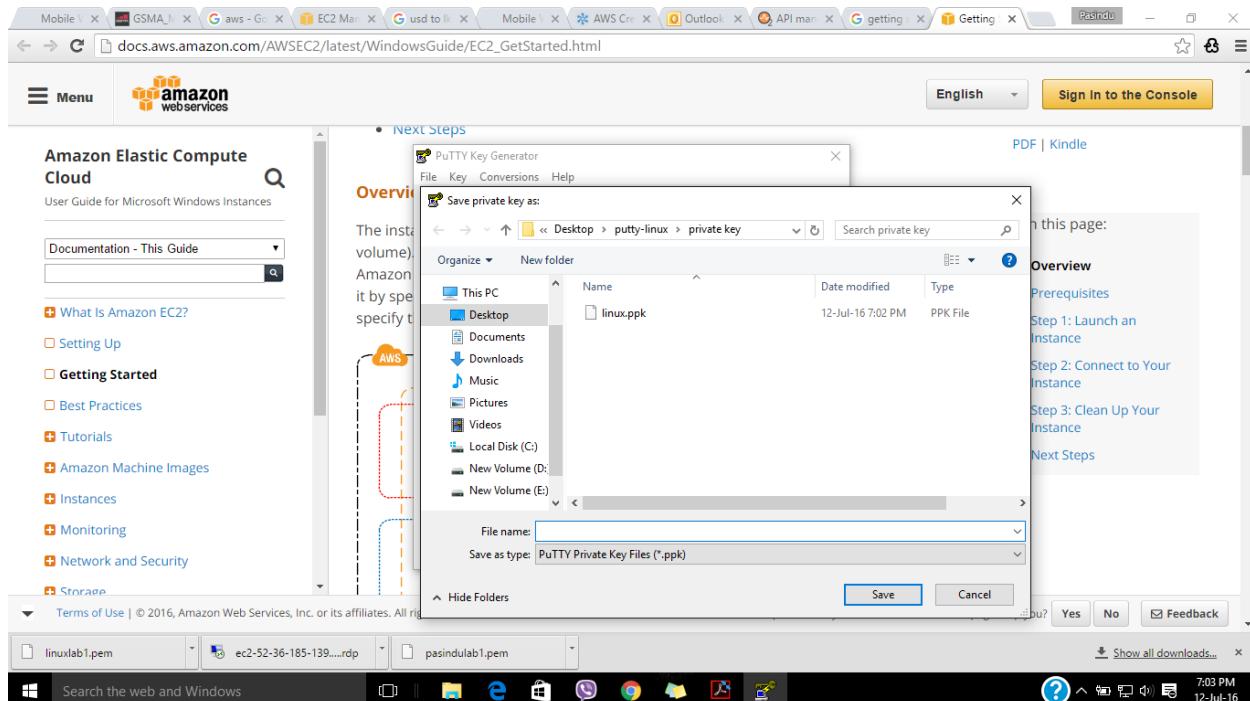
On this page:

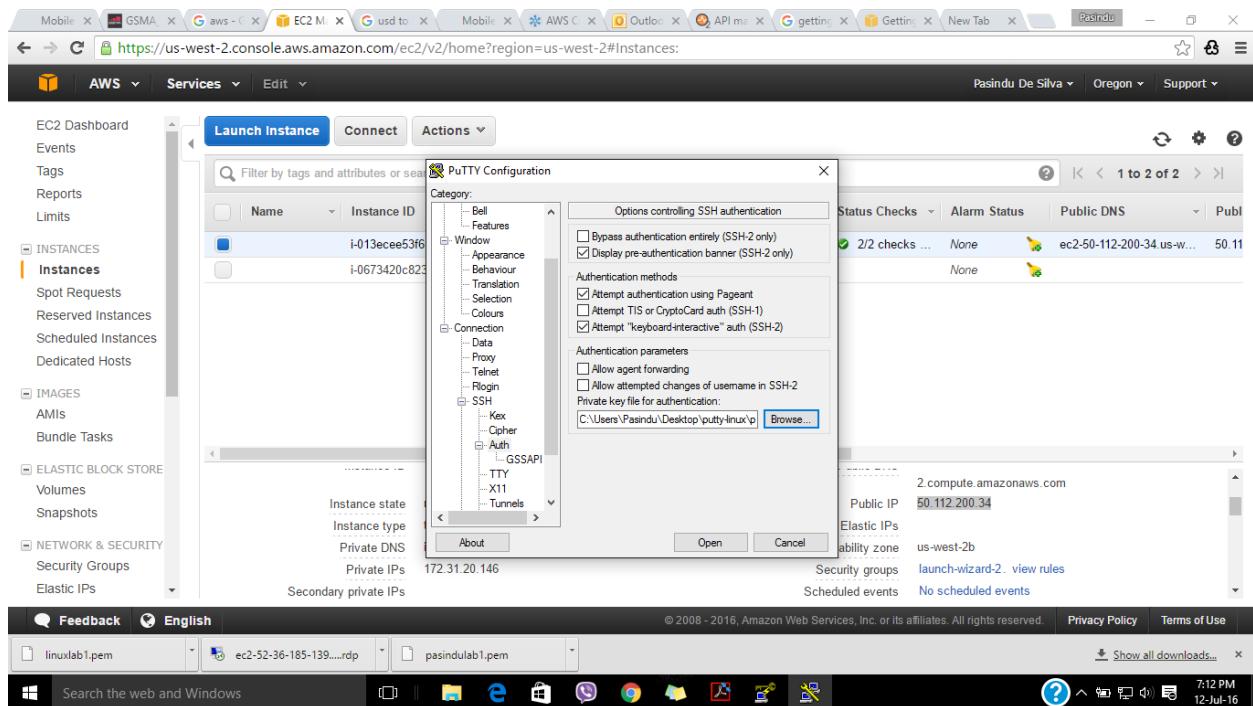
- Overview
- Prerequisites
- Step 1: Launch an Instance
- Step 2: Connect to Your Instance
- Step 3: Clean Up Your Instance
- Next Steps

## 10. Add the key value



## 11. Create a file which is called .ppk files.





## 12. Connecting to the linux instance

