



SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

4th Year 2nd Semester 2016

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Group Number: -

Practical Session: WE Tuesday

Practical Number: AWS Summary

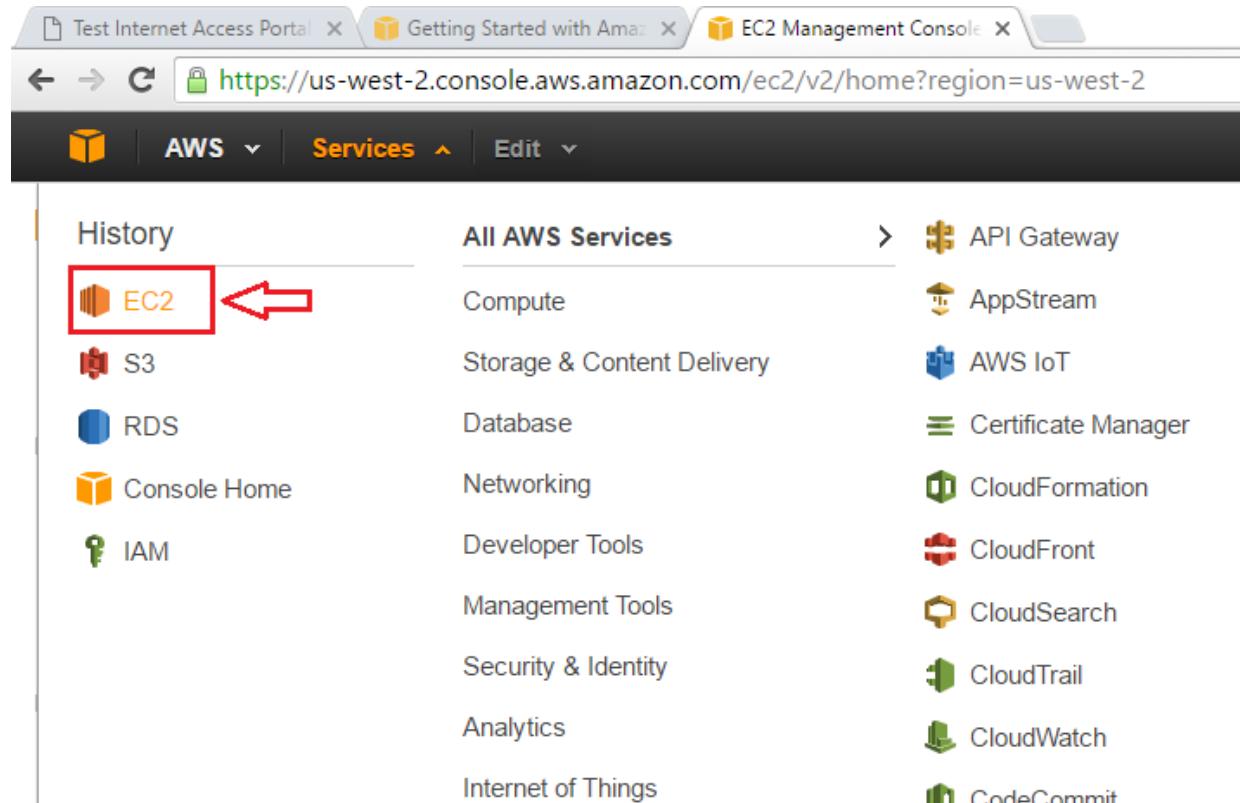
Date of Submission: 30th July 2016

Date of Evaluation : _____

Evaluators Signature : _____

Creating a Windows Instance

1. Open the Amazon EC2 console at <https://console.aws.amazon.com/ec2/>.



2. From the console dashboard, choose **Launch Instance**.

The screenshot shows the AWS EC2 Management Console. The left sidebar has a tree view with 'EC2 Dashboard' selected, followed by 'INSTANCES', 'IMAGES', and 'ELASTIC BLOCK STORE'. The main content area is titled 'Resources' and says you're using the US West (Oregon) region. It lists 0 Running Instances, 0 Dedicated Hosts, 0 Volumes, 0 Key Pairs, and 0 Placement Groups. Below this is a box for 'Amazon Simple Workflow'. At the bottom, there's a 'Create Instance' section with a large blue 'Launch Instance' button. A red box and a red arrow point to this button.

3. Select the AMI for Microsoft Windows Server 2012 R2 Base or Microsoft Windows Server 2008 R2 Base.

Step 1: Choose an Amazon Machine Image (AMI)

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>).
Select

Microsoft Windows Server 2012 R2 Base - ami-8d0acfed
Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English]
Select

- On the **Choose an Instance Type** page, you can select the hardware configuration of your instance. Select the `t2.micro` type, which is selected by default. Notice that this instance type is eligible for the free tier.

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.

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	t2.micro <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

Review and Launch

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

How people build software AWS Support (Basic) Sign In EC2 Management Console cloudacademy - Google Search https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

AWS Services Edit Kavinda Oregon Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

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	<input type="text" value="1"/>	Launch into Auto Scaling Group
Purchasing option	<input type="checkbox"/> Request Spot Instances	
Network	vpc-5815523c (172.31.0.0/16) (default)	<input type="button" value="Create new VPC"/>
Subnet	No preference (default subnet in any Availability Zone)	<input type="button" value="Create new subnet"/>
Auto-assign Public IP	Use subnet setting (Enable)	
Domain join directory	None	<input type="button" value="Create new directory"/>
IAM role	None	<input type="button" value="Create new IAM role"/>
Shutdown behavior	Stop	
Enable termination protection	<input type="checkbox"/> Protect against accidental termination	
Monitoring	<input type="checkbox"/> Enable CloudWatch detailed monitoring	

Cancel Previous Review and Launch Next: Add Storage

6. Add storage

How people build software AWS Support (Basic) Sign In EC2 Management Console cloudacademy - Google Search https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

AWS Services Edit Kavinda Oregon Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

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	<input type="text" value="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.

Cancel Previous Review and Launch Next: Tag Instance

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7. 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

Microsoft Windows Server 2012 R2 Base - ami-8d0acfed

Free tier eligible Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English]
Root Device Type: ebs Virtualization type: hvm

If you plan to use this AMI for an application that benefits from Microsoft License Mobility, fill out the [License Mobility Form](#). Don't show me this again

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

8. Select an existing key pair or create a new 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: lab1
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

9. Launch instance

Your instances are now launching
The following instance launches have been initiated: i-02bffb6af4de568da [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](#)

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10. Connecting to the instance.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP
	i-02bffb6af4de568da	t2.micro	us-west-2a	pending	Initializing	None		

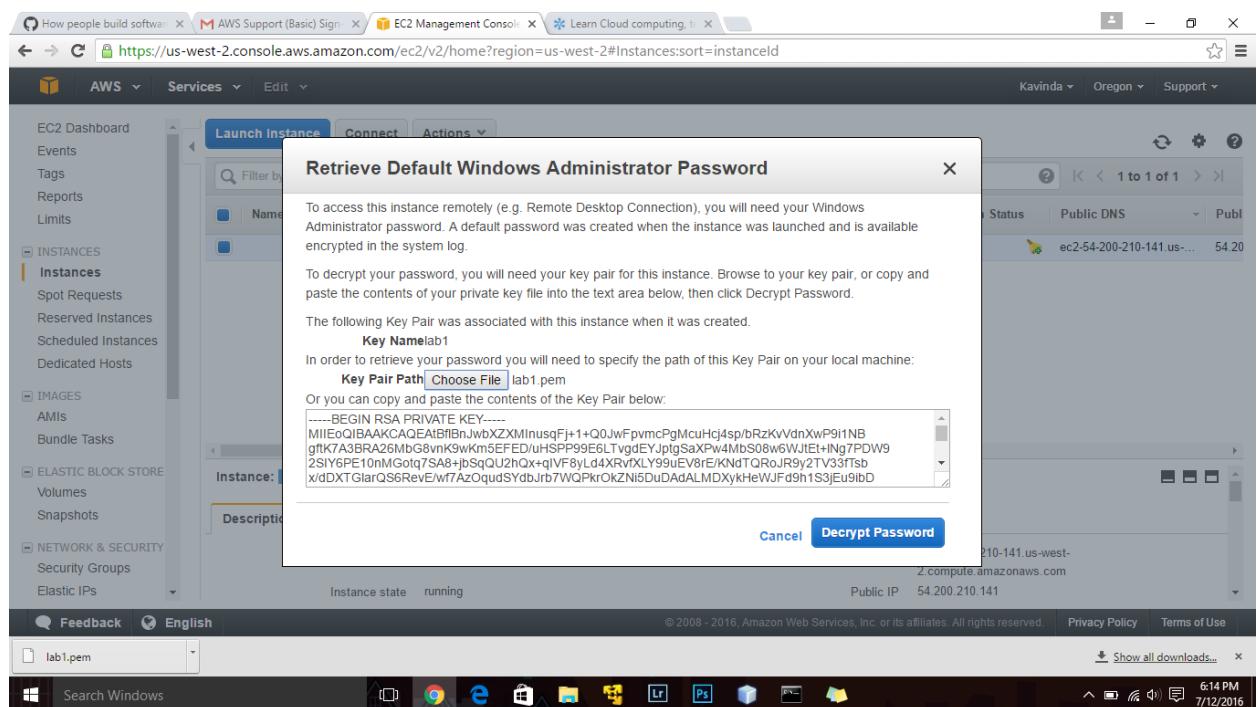
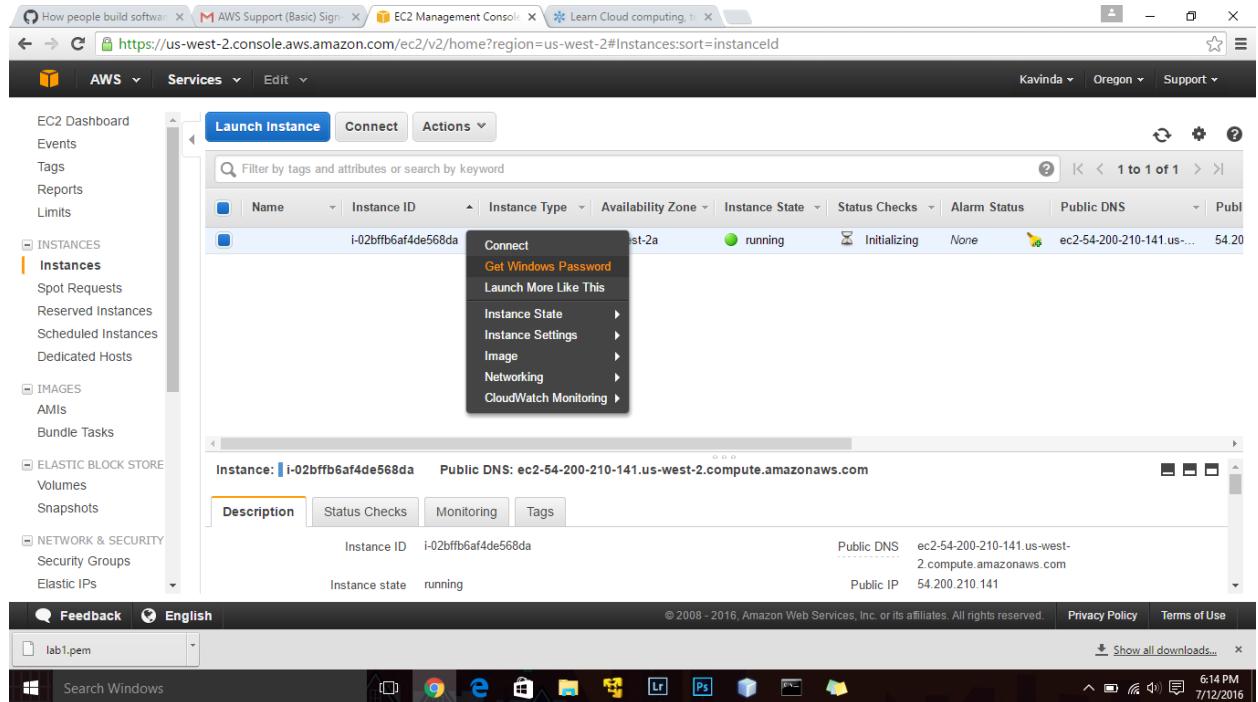
Instance: i-02bffb6af4de568da Private IP: 172.31.31.108

Description Status Checks Monitoring Tags

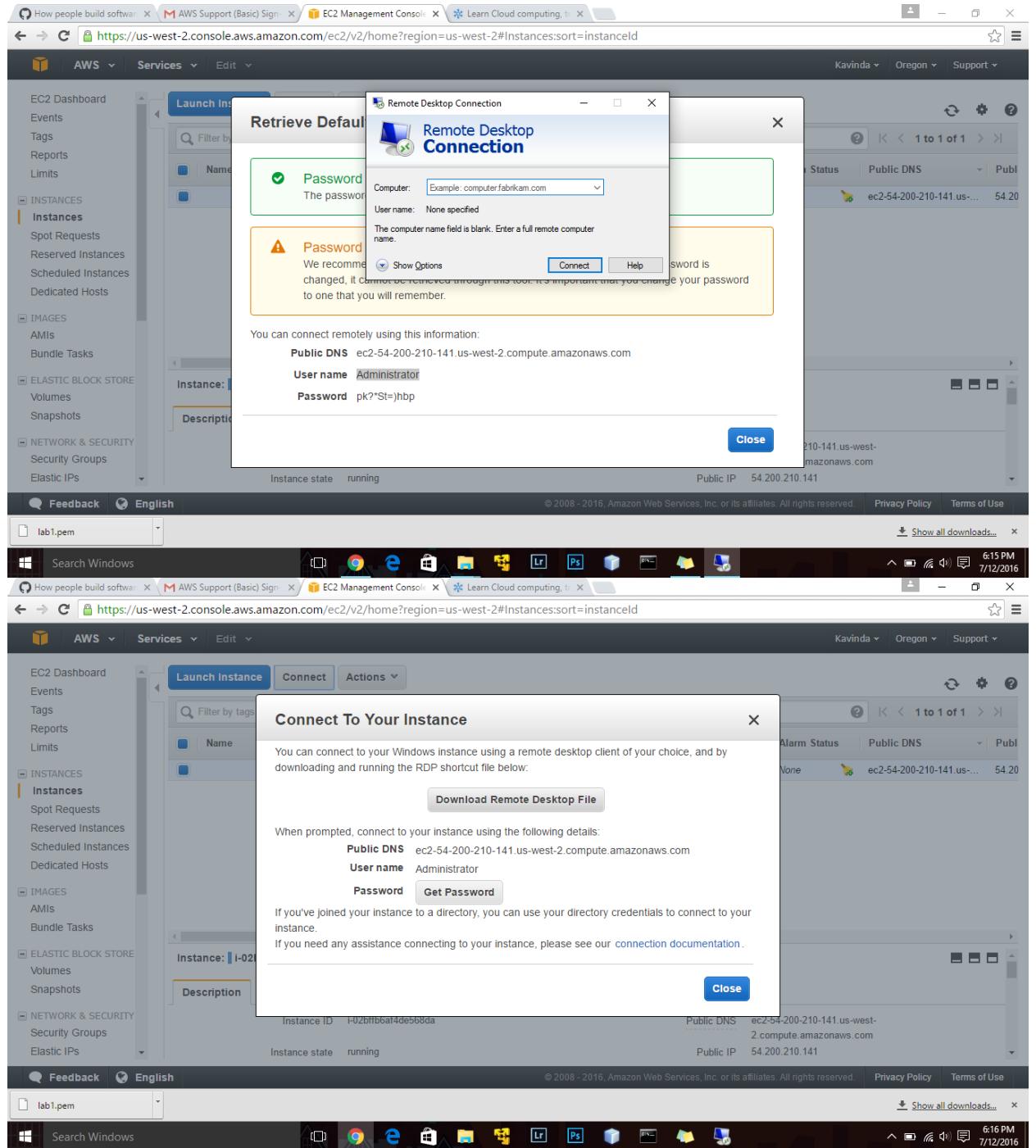
Instance ID: i-02bffb6af4de568da Public DNS: [Edit](#)
Instance state: pending Public IP: [Edit](#)

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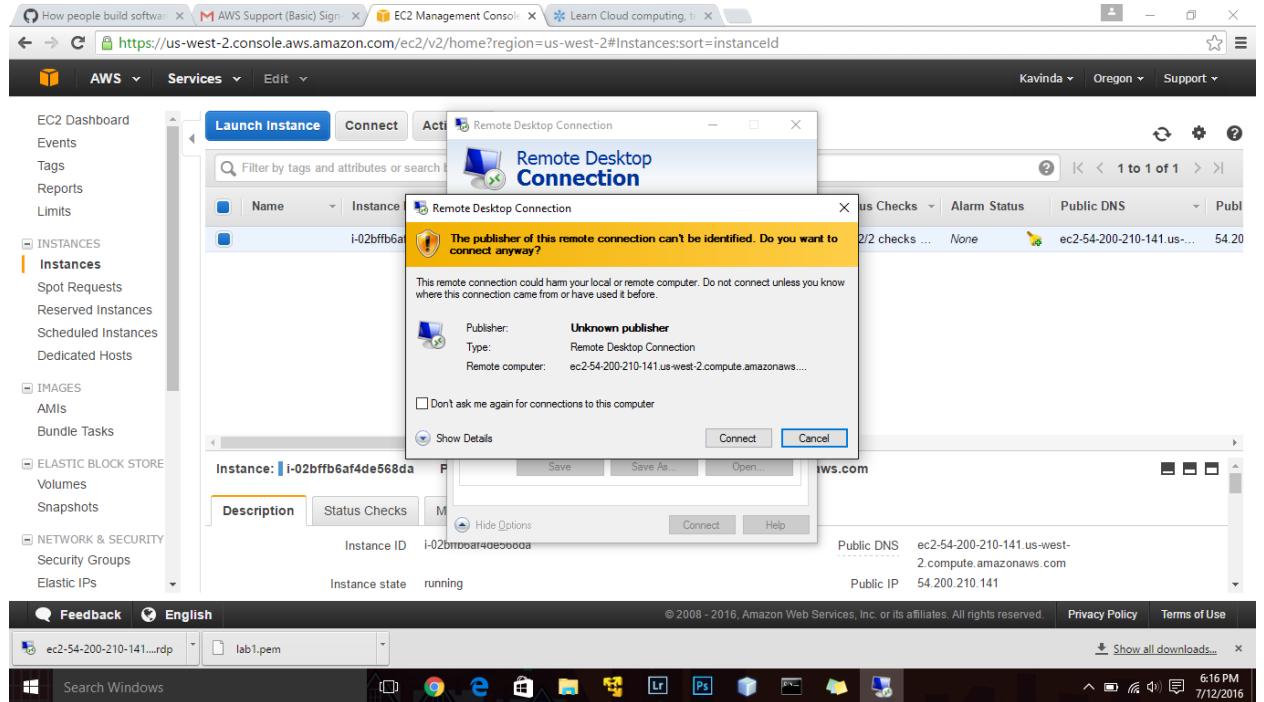
11. Get Windows password



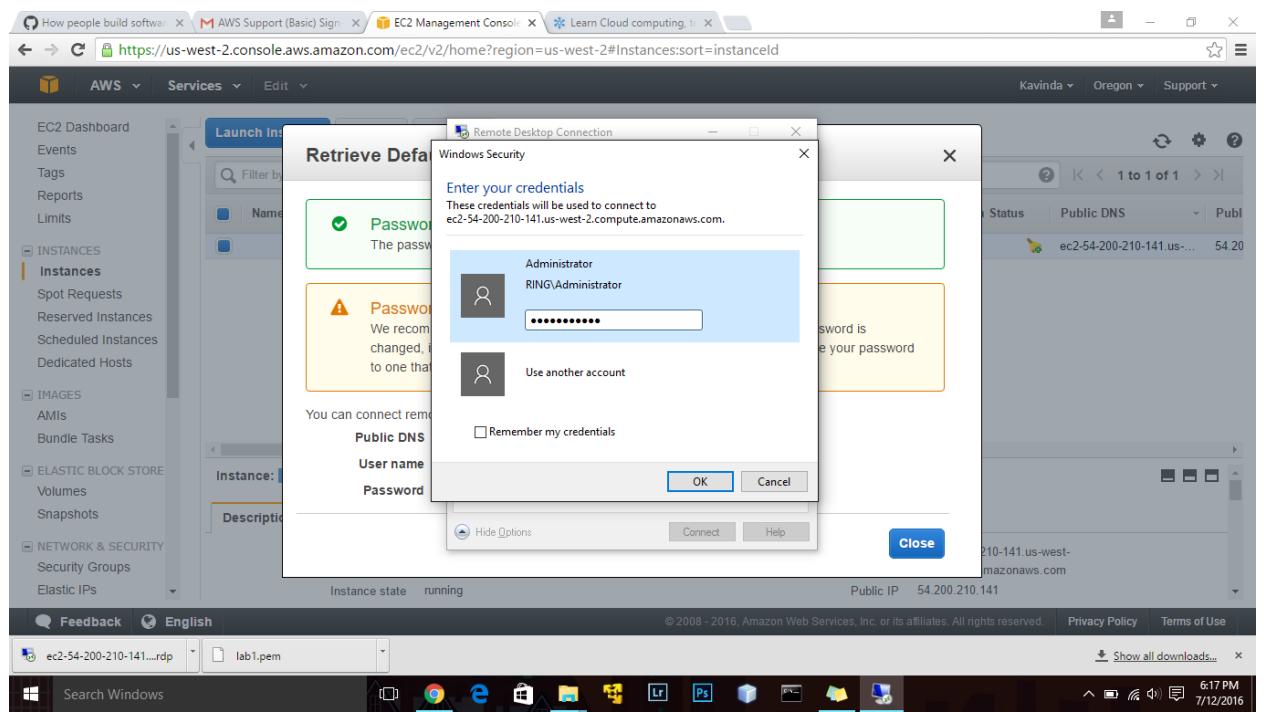
12. Connect to your windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below.

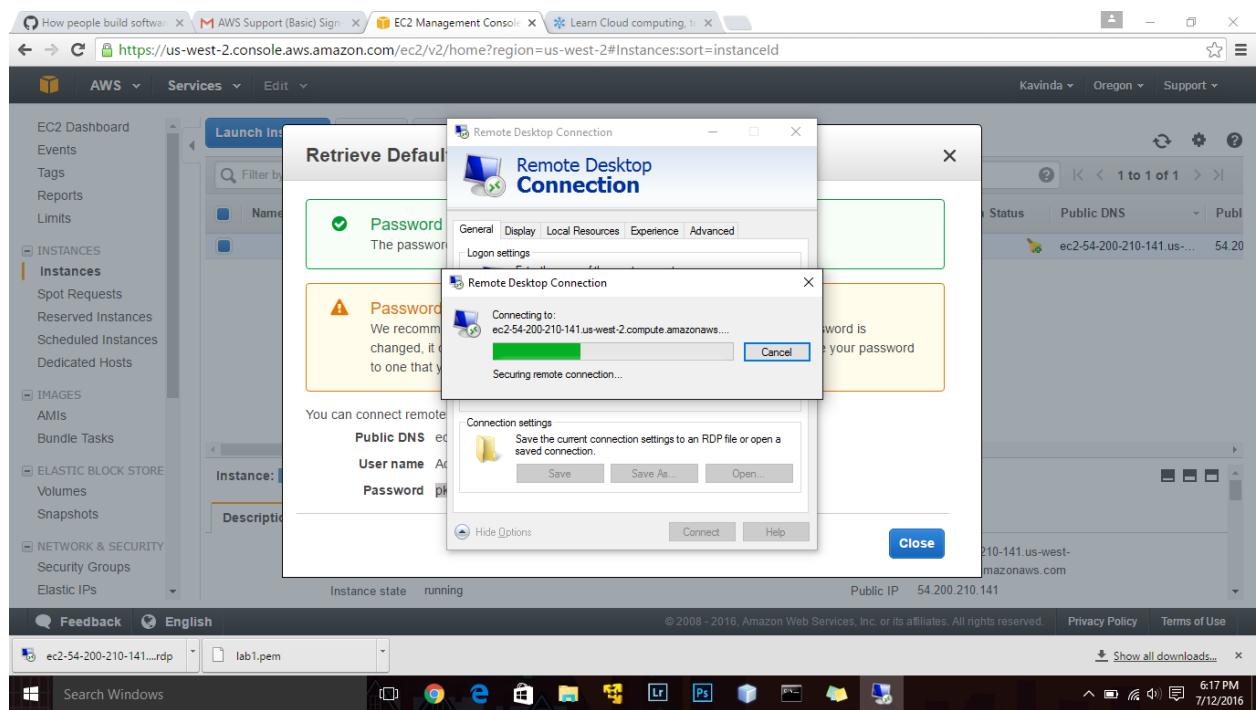


13. Get the remote desktop connection. Provide the public IP address.

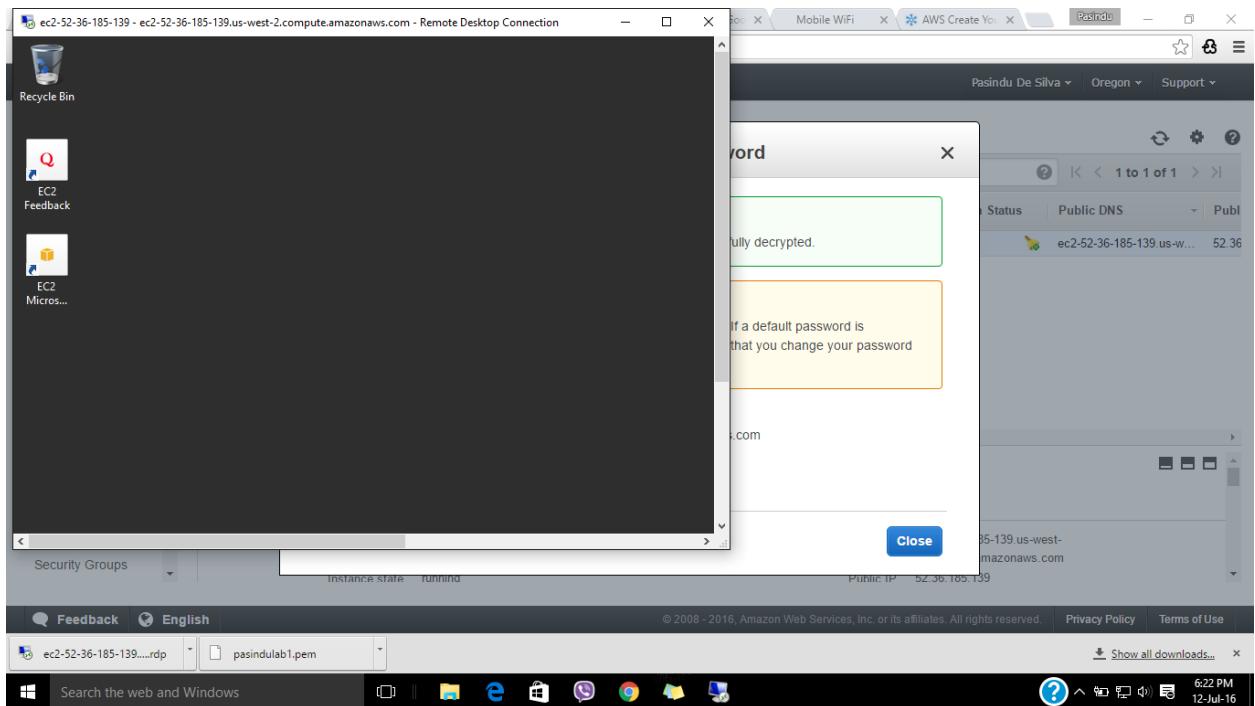


14. Provide user name as Administrator and the encrypted password.





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



16. Terminating the instance.

The screenshot shows the AWS Management Console with the EC2 Instances page open. A context menu is displayed over an instance named 'i-0673420c823f1b18'. The menu options include 'Connect', 'Get Windows Password', 'Launch More Like This', 'Instance State' (with 'Start', 'Stop', 'Reboot', and 'Terminate' sub-options), and 'CloudWatch Monitoring'. Below the menu, the instance details are shown: Instance ID: i-0673420c823f1b18, Public DNS: ec2-52-36-185-139.us-west-2.compute.amazonaws.com, Instance state: running. The browser status bar indicates the public IP is 52.36.185.139.

The screenshot shows the AWS Management Console with the EC2 Instances page open. A confirmation dialog box titled 'Terminate Instances' is displayed. It contains 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-0673420c823f1b18 (ec2-52-36-185-139.us-west-2.compute.amazonaws.com)'. At the bottom right of the dialog are 'Cancel' and 'Yes, Terminate' buttons. The browser status bar indicates the public IP is 52.36.185.139.

Creating a Linux instance

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	AMIs	Actions
My AMIs	Amazon Linux AMI 2016.03.3 (HVM), SSD Volume Type - ami-7172b611 Amazon Linux Free tier eligible	Select
AWS Marketplace	Red Hat Enterprise Linux 7.2 (HVM), SSD Volume Type - ami-775e4f16 Red Hat Free tier eligible	Select
Community AMIs	SUSE Linux Enterprise Server 12 SP1 (HVM), SSD Volume Type - ami-d2627db3 SUSE Linux Free tier eligible	Select
<input type="checkbox"/> Free tier only		

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				
Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)							
	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
<input type="checkbox"/>	General purpose	m4.large	2	8	EBS only	Yes	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-5815523c (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
Additional charges apply.

Tenancy Shared - Run a shared hardware instance

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

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

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

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

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 2016-07-12T18:34:39.697+05:30

Type	Protocol	Port Range	Source
SSH	TCP	22	Anywhere 0.0.0.0/0

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.

Cancel **Previous** **Review and Launch**

6. Then review the 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 **Edit AMI**

Amazon Linux AMI 2016.03.3 (HVM), SSD Volume Type - ami-7172b611
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

Instance Type **Edit 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

Summary **Edit security groups**

Cancel **Previous** **Launch**

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

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.

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

Launch Status

Your instances are now launching
The following instance launches have been initiated: i-04c8c53666022fe16 [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](#)
- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

The screenshot shows the AWS Management Console with the EC2 Management Console open. The left sidebar shows navigation options like EC2 Dashboard, Events, Tags, Reports, Limits, Instances, Images, AMIs, Bundle Tasks, Elastic Block Store, Volumes, Snapshots, and Network & Security, Security Groups. The main area displays a table of instances. The first instance, with ID i-02bf1b6af4de568da, is listed as terminated. The second instance, with ID i-04c8c53666022fe16, is listed as pending. A message at the bottom says "Select an instance above". Below the table is a toolbar with icons for refresh, settings, and help.

8. Download putty.exe and puttyGen.exe.

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

This screenshot shows a web browser window displaying the Putty download page. The URL in the address bar is www.chiark.greenend.org.uk/~sgtatham/putty/download.html. The page content includes a note about the合理性 of the version, links for various Putty components (PuTTY, PuTTYtel, PSCP, PSFTP, Plink, Pageant, PuTTYgen), and links for a ZIP file and an MSI installer. It also includes checksums for the files and a section for the latest development snapshot.

For Windows on Intel x86

PuTTY:	putty.exe	(or by FTP)	(signature)
PuTTYtel:	puttytel.exe	(or by FTP)	(signature)
PSCP:	pscp.exe	(or by FTP)	(signature)
PSFTP:	psftp.exe	(or by FTP)	(signature)
Plink:	plink.exe	(or by FTP)	(signature)
Pageant:	pageant.exe	(or by FTP)	(signature)
PuTTYgen:	puttygen.exe	(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:	md5sums	(or by FTP)	(signature)
SHA-1:	sha1sums	(or by FTP)	(signature)
SHA-256:	sha256sums	(or by FTP)	(signature)
SHA-512:	sha512sums	(or by FTP)	(signature)

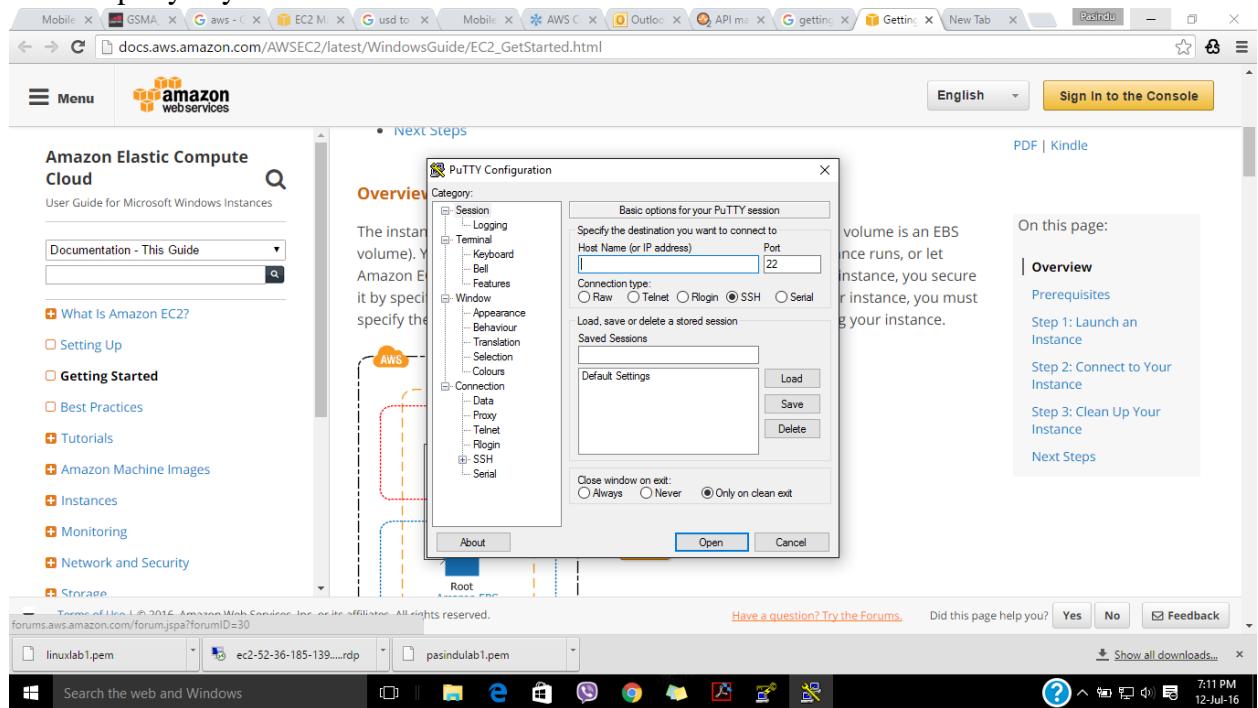
The latest development snapshot

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.

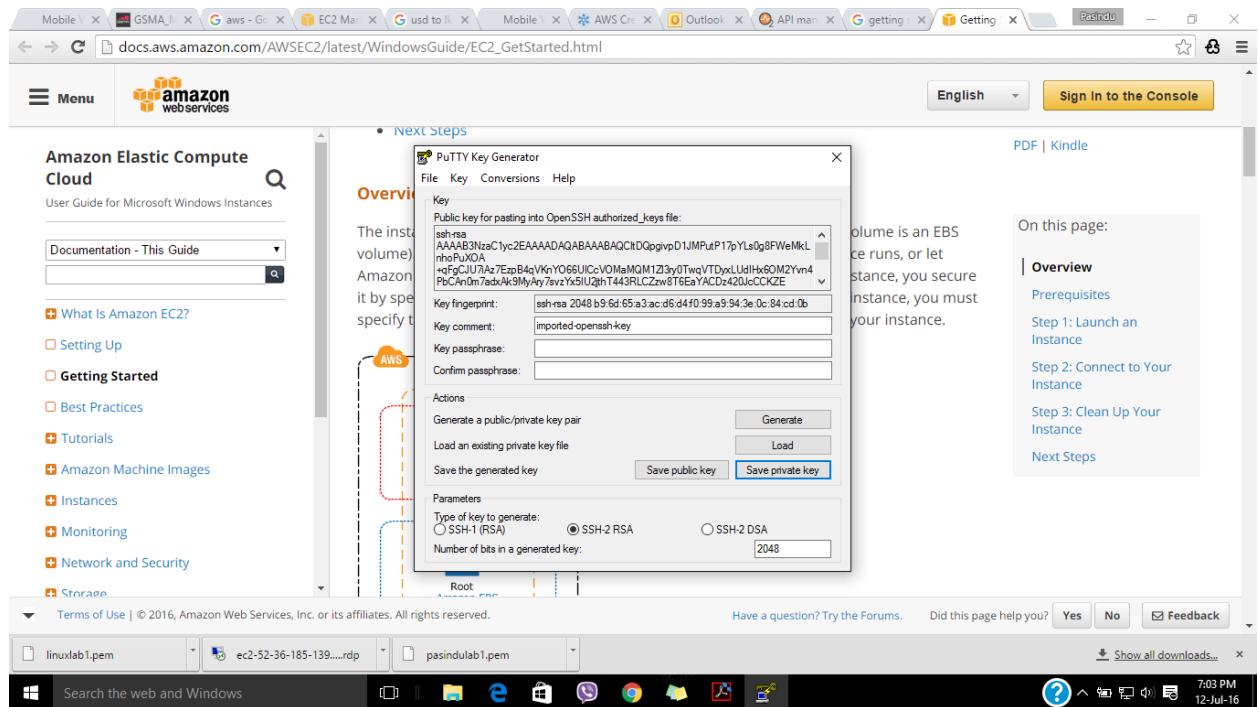
(The filename of the development snapshot installer contains the snapshot date, so it will change every night.)

For Windows on Intel x86

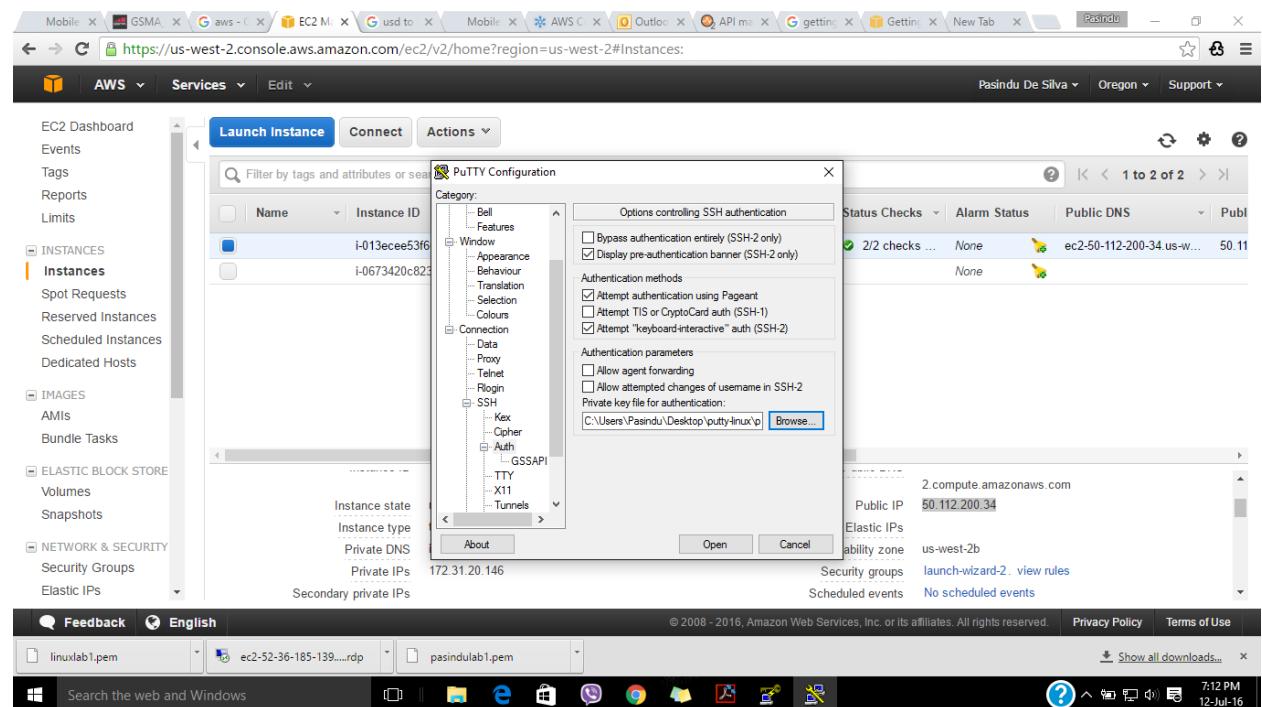
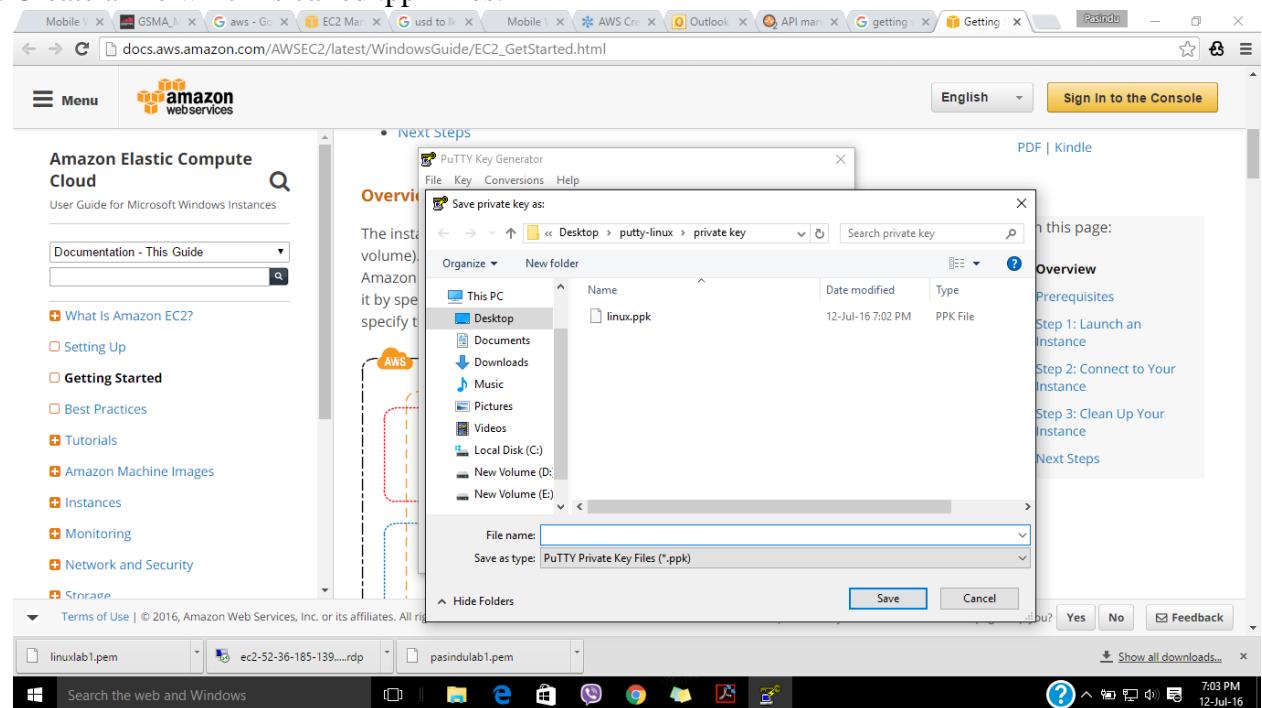
9. Run the putty key



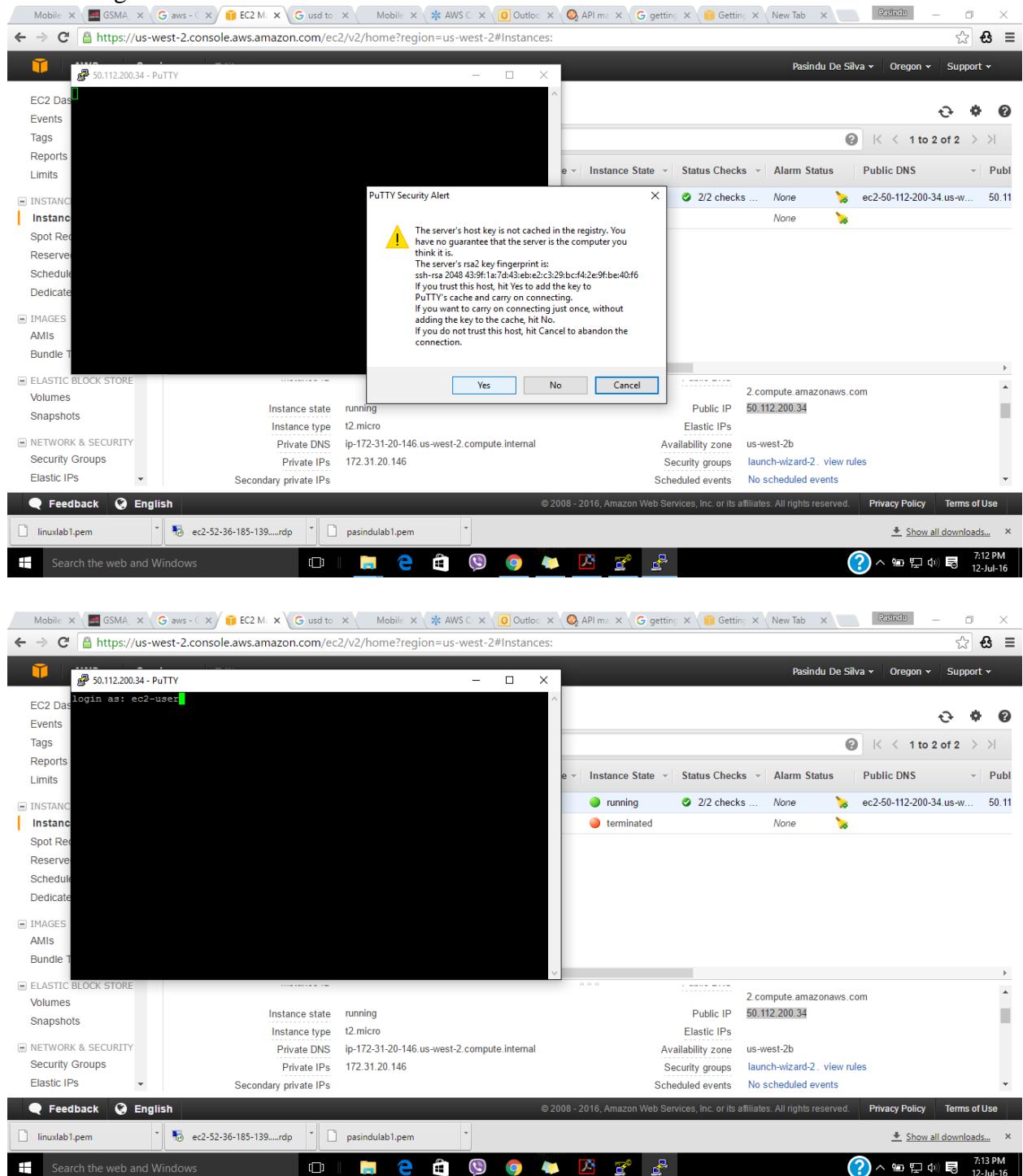
10. Add the key value

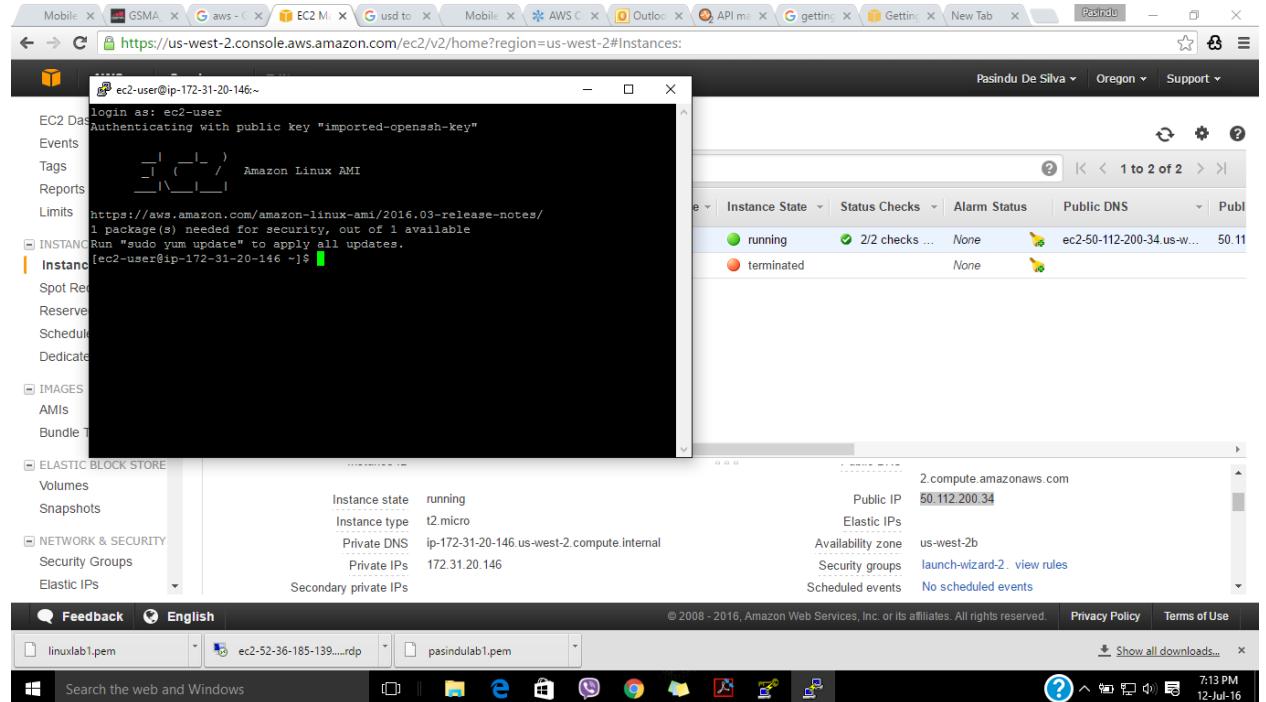


11. Create a file which is called .ppk files.



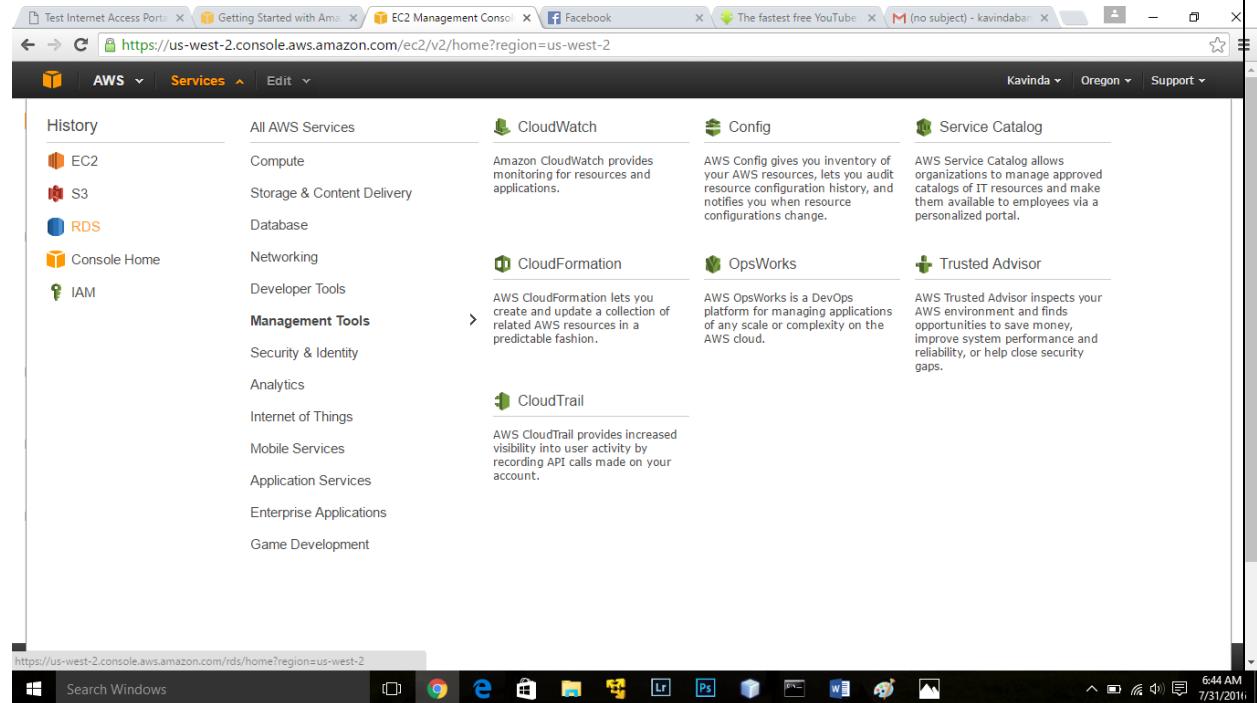
12. Connecting to the Linux instance.



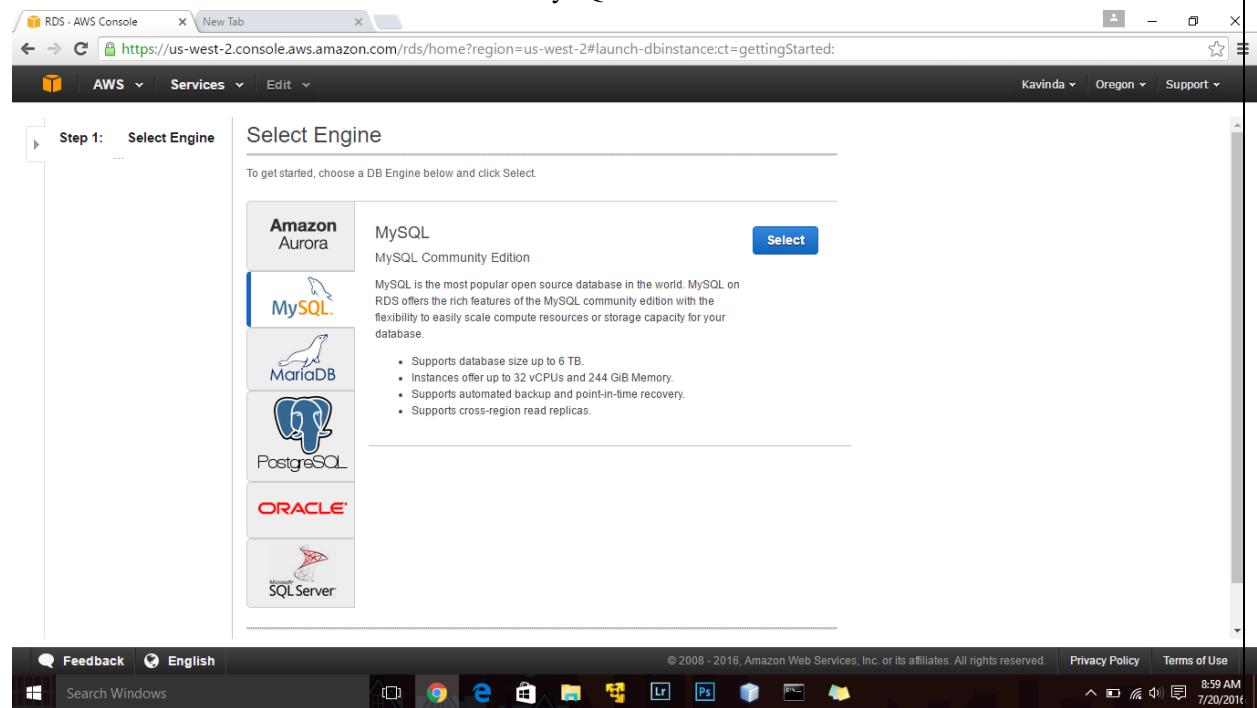


Creating a Database instance

1. Select “RDS” option under DATABASE category.



2. Click “Launch DB Instance” and then select MySQL



3. Select MySQL option and click “Next Step”.

Do you plan to use this database for production purposes?

Production

- Amazon Aurora **Recommended**
MySQL-compatible, enterprise-class database at 1/10th the cost of commercial databases.
- MySQL
Use Multi-AZ Deployment and Provisioned IOPS Storage as defaults for high availability and fast, consistent performance.

Dev/Test

- MySQL
This instance is intended for use outside of production or under the **RDS Free Usage Tier**.

Billing is based on [RDS pricing](#).

Cancel Previous Next Step

4. Fill the form as below and click “Next Step” (associate storage you can put any value below 30 since we are using free tier).

Specify DB Details

Free Tier

The Amazon RDS Free Tier provides a single db.t2.micro instance as well as up to 20 GB of storage, allowing new AWS customers to gain hands-on experience with Amazon RDS. Learn more about the RDS Free Tier and the instance restrictions [here](#).

Only show options that are eligible for RDS Free Tier

Instance Specifications

DB Engine	mysql
License Model	general-public-license
DB Engine Version	5.6.27
DB Instance Class	db.t2.small — 1 vCPU, 2 GB RAM
Multi-AZ Deployment	Select One
Storage Type	General Purpose (SSD)
Allocated Storage*	5 GB

Review the **Known Issues/Limitations** to learn about potential compatibility issues with specific database versions.

Select the DB instance class that allocates the computational, network, and memory capacity required by planned workload of this DB instance. [Learn More](#).

Details: db.t2.small

Type: Micro Instance - Current Generation
vCPU: 1 vCPU

Screenshot 1: Step 3: Specify DB Details

The screenshot shows the AWS RDS console interface for creating a new database instance. The user has selected the 'db.t2.small' instance class, 'General Purpose (SSD)' storage type, and allocated 5 GB of storage. A warning message indicates that provisioning less than 100 GB of storage could result in higher latencies. The 'Settings' section includes fields for the DB instance identifier ('dbinstance'), master username ('db'), master password, and confirm password. The 'Next Step' button is visible at the bottom.

Screenshot 2: Step 4: Configure Advanced Settings

The screenshot shows the 'Configure Advanced Settings' step. Under 'Network & Security', the VPC is set to 'Default VPC (vpc-5815523c)', Subnet Group to 'default', and Publicly Accessible to 'Yes'. The Availability Zone is 'No Preference'. Under 'Database Options', the Database Name is 'lab3', Database Port is '3306', DB Parameter Group is 'default.mysql5.6', and Option Group is 'default.mysql5-6'. A note states that if no database name is specified, no initial MySQL database will be created. The 'Next Step' button is visible at the bottom.

5. Finally, click “Launch DB Instance”

The screenshot shows the AWS RDS console with the URL <https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=gettingStarted>. The page is titled "Launch DB Instance". It contains several configuration sections:

- General**: Includes fields for "DB Name" (set to "rds-tutorial-instance"), "DB Parameter Group" (set to "default.mysql5.6"), "Option Group" (set to "default.mysql-5-6"), "Copy Tags To Snapshots" (unchecked), and "Enable Encryption" (set to "No").
- Backup**: Includes "Backup Retention Period" (set to "7 days") and "Backup Window" (set to "No Preference").
- Monitoring**: Includes "Enable Enhanced Monitoring" (set to "No").
- Maintenance**: Includes "Auto Minor Version Upgrade" (set to "Yes") and "Maintenance Window" (set to "No Preference").

At the bottom right, there are "Cancel", "Previous", and "Launch DB Instance" buttons. The "Launch DB Instance" button is highlighted in blue.

The screenshot shows the AWS RDS console after launching the DB instance. The URL is the same as the previous screenshot. The main content area displays a green box with the message "Your DB Instance is being created." and a note: "Note: Your instance may take a few minutes to launch." Below this, there is a section titled "Connecting to your DB Instance" with a note: "You will be unable to connect to your database instance unless you have previously authorized access on your chosen security group." It also includes a link "Go to the Security Groups Page".

On the left, a sidebar shows the steps taken: "Step 1: Select Engine", "Step 2: Production?", "Step 3: Specify DB Details", and "Step 4: Configure Advanced Settings".

Below the main content, there is a section titled "Related AWS Services" featuring "Amazon ElastiCache". It describes it as "Add a managed Memcached or Redis-compatible in-memory cache to speed up your database access." and provides a link "Click here to learn more and launch your Cache Cluster".

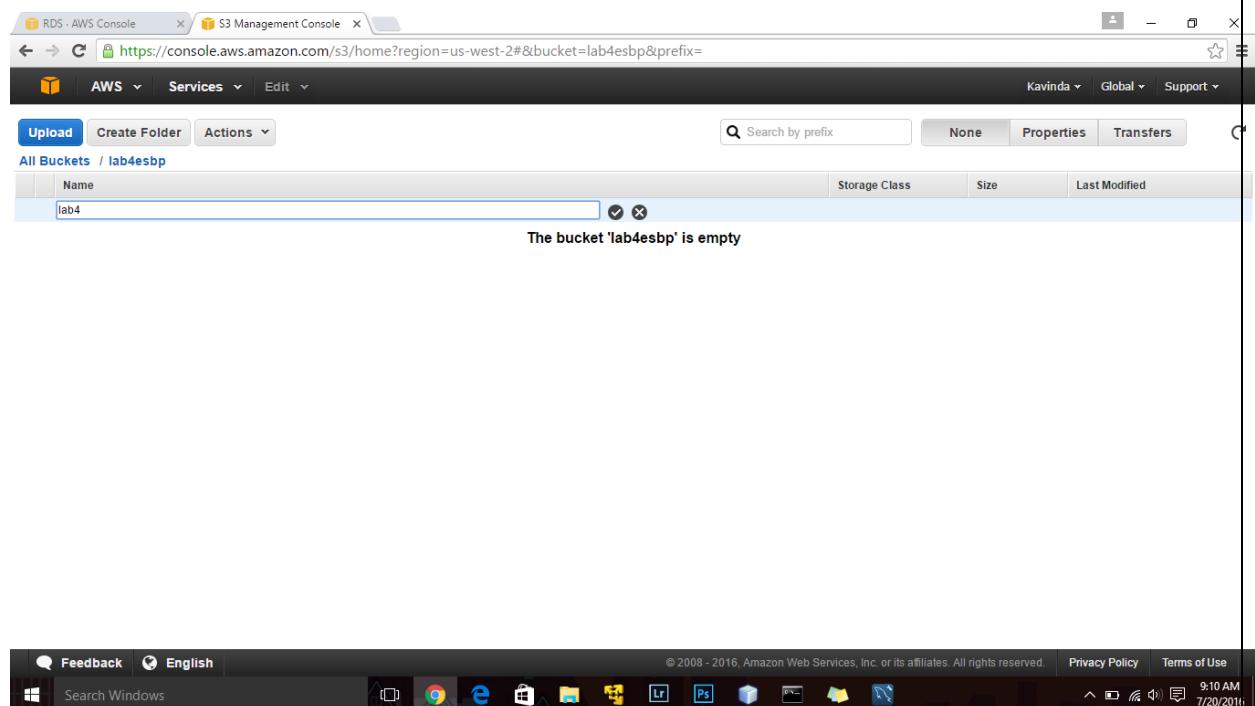
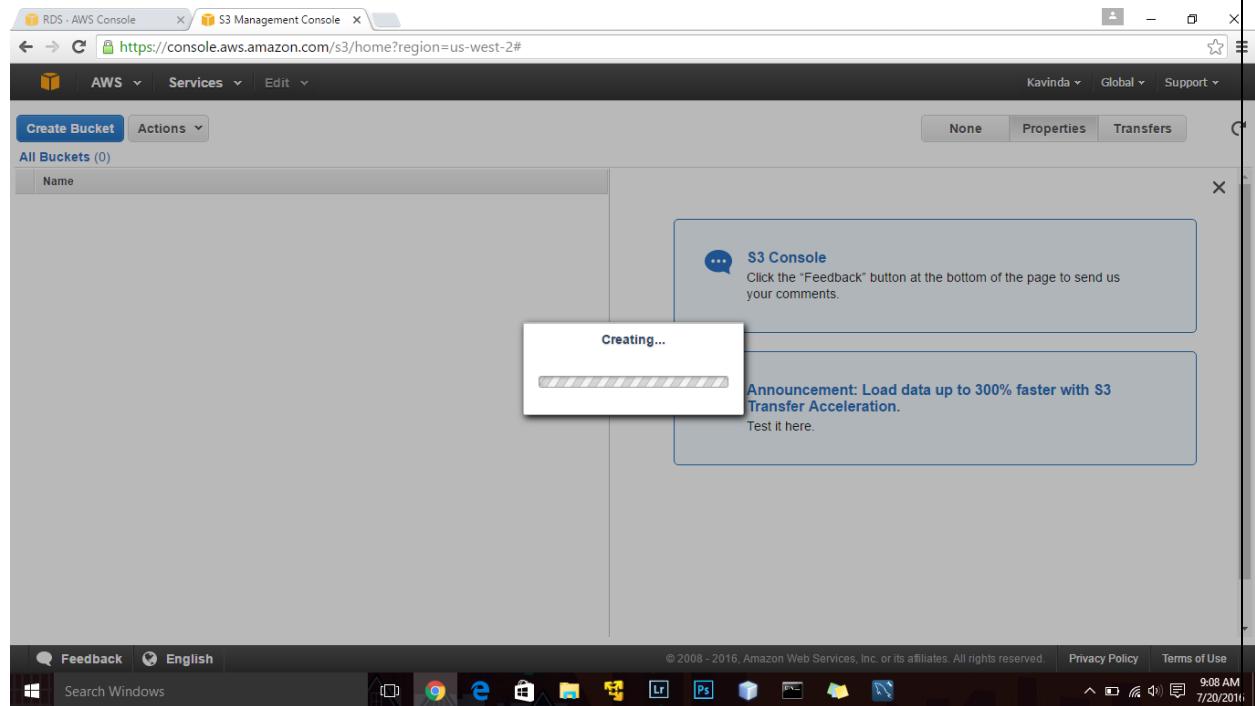
At the bottom right, there is a blue "View Your DB Instances" button.

6. Now it is shown that the DB instance is created

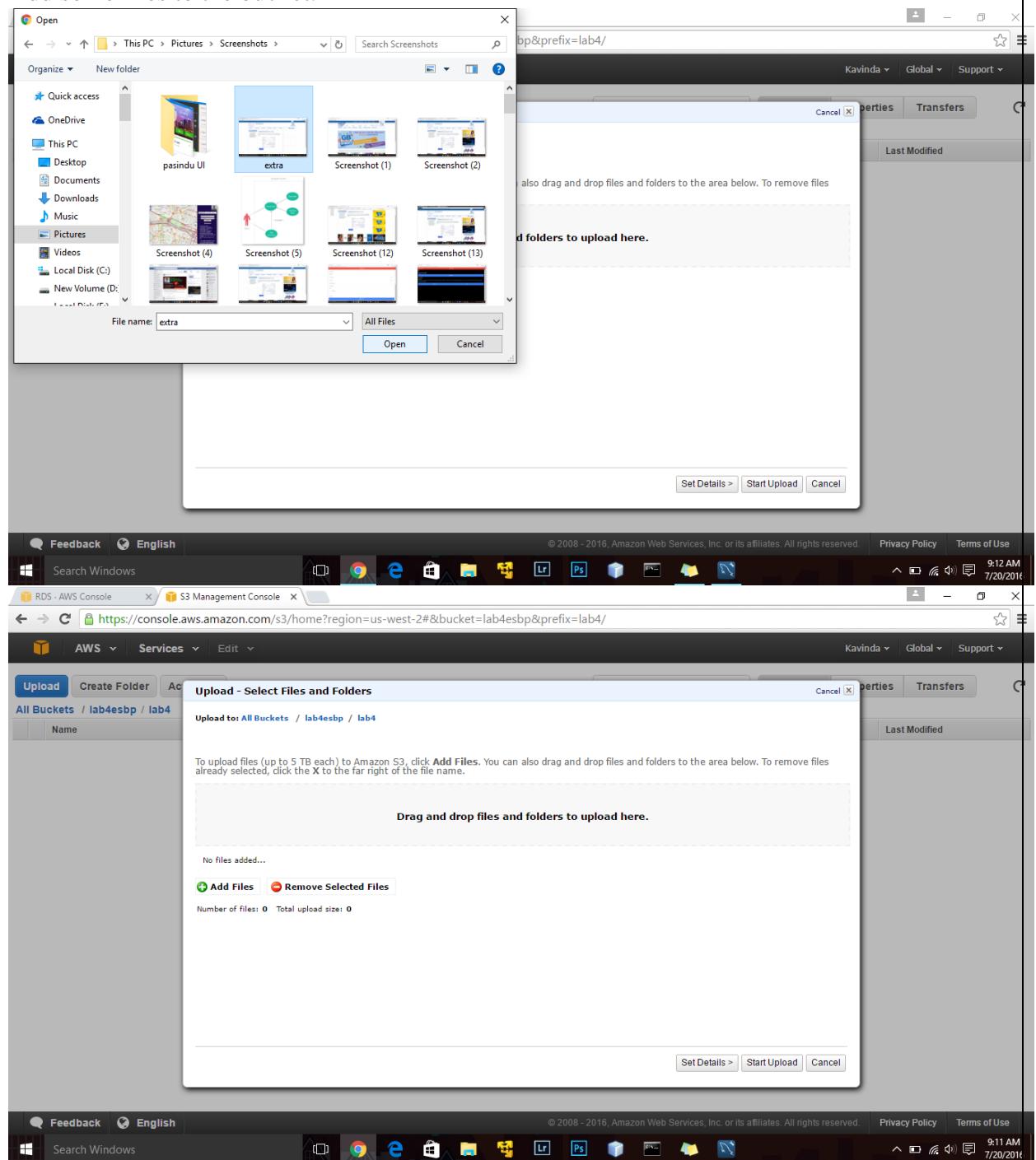
The screenshot shows the AWS RDS Dashboard. On the left, there's a sidebar with options like Instances, Clusters, Reserved Purchases, Snapshots, Security Groups, Parameter Groups, Option Groups, Subnet Groups, Events, Event Subscriptions, and Notifications. The main area has tabs for Launch DB Instance, Show Monitoring, and Instance Actions. A search bar at the top right says "Search DB Instances...". Below it, a table header includes columns for Filter, Engine, DB Instance, Status, CPU, Current Activity, Maintenance, Class, VPC, Multi-AZ, Replication Role, and End Date. The table shows one row: MySQL dbinstance creating None db.t2.small vpc-5815523c No. At the bottom, there's a footer with links for Feedback, English, Privacy Policy, Terms of Use, and a Windows taskbar.

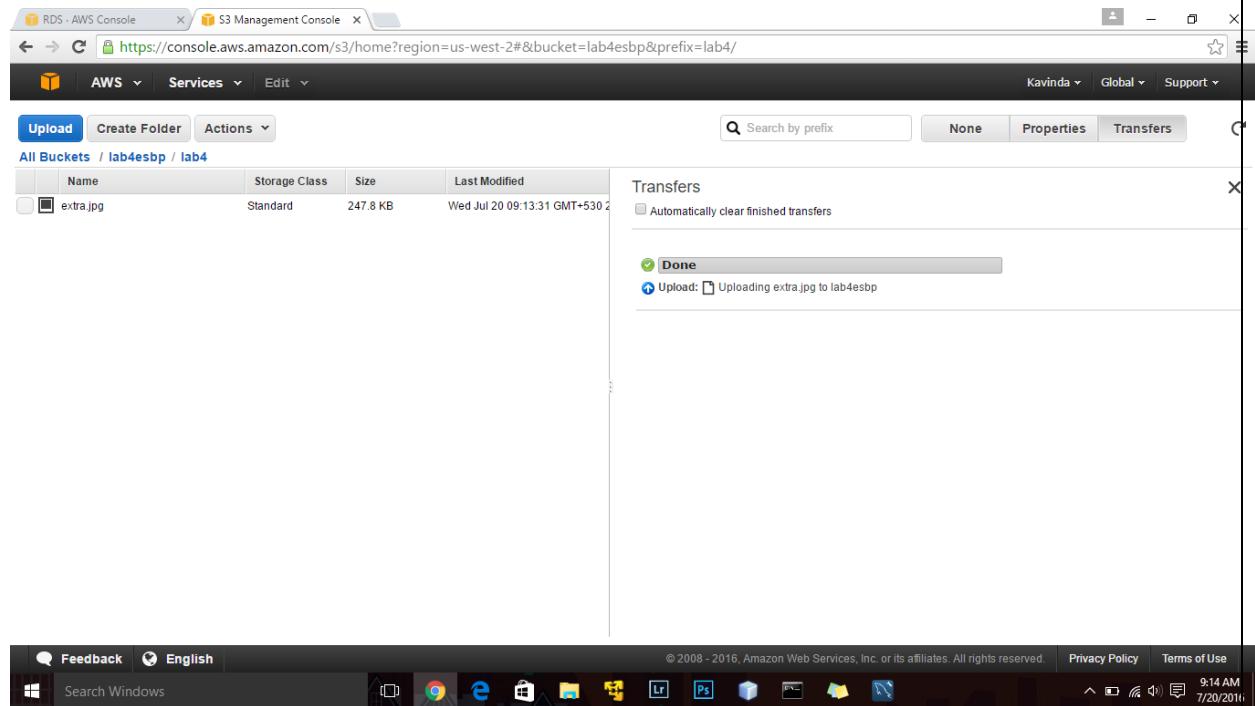
7. Now we are going connect DB instance with MySQL. To do so use MySQL Workbench.
First Create a Bucket.

The screenshot shows the AWS S3 Management Console. The main page has sections for Welcome to Amazon Simple Storage Service, Additional Information, and S3 at a glance. In the center, a modal window titled "Create a Bucket - Select a Bucket Name and Region" is open. It contains instructions about what a bucket is, a "Bucket Name:" input field with "lab4", a "Region:" dropdown set to "Mumbai", and buttons for "Set Up Logging >", "Create", and "Cancel". Below the modal, there are sections for Create, Add, and Manage buckets, along with links for Create a bucket in one of several, Upload objects to your bucket, and Manage your data with Amazon S3's. The footer includes links for Feedback, English, Privacy Policy, Terms of Use, and a Windows taskbar.

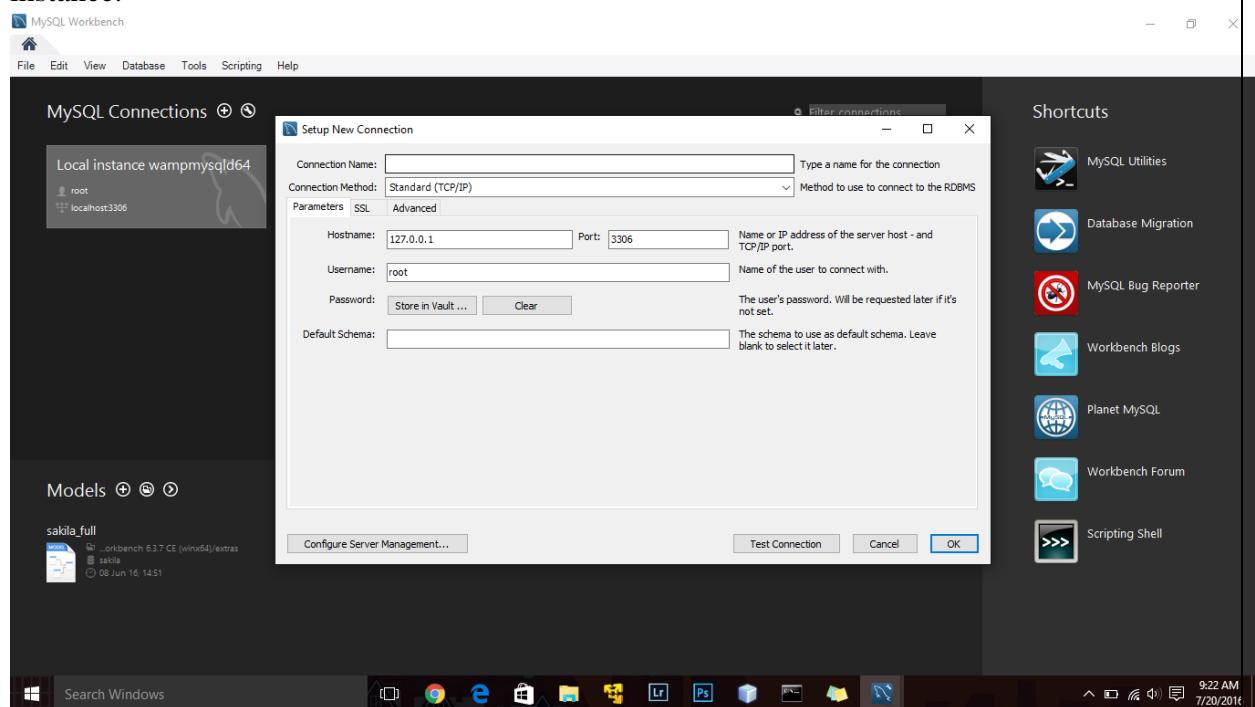


8. Add some files to the bucket.





- Set up a new End point connection in WorkBench using the endpoint of the db instance.



RDS - AWS Console

S3 Management Console

<https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#dbinstances:id=dbinstance;sf=all>

Kavinda | Oregon | Support

RDS Dashboard

Instances

Clusters

Reserved Purchases

Snapshots

Security Groups

Parameter Groups

Option Groups

Subnet Groups

Events

Event Subscriptions

Notifications

Launch DB Instance Show Monitoring Instance Actions

Filter: All Instances Search DB Instances... Viewing 1 of 1 DB Instances

Engine: MySQL DB Instance: dbinstance Status: available CPU: 0.83% Current Activity: 0 Connections Maintenance: None Class: db.t2.small VPC: vpc-5815523c Multi-AZ: No Replicati

Endpoint: dbinstance.c4n39pxgxr9o.us-west-2.rds.amazonaws.com:3306 (authorized)

Alarms and Recent Events

TIME (UTC+5:30)	EVENT
Jul 20 9:08 AM	Finished DB Instance backup
Jul 20 9:04 AM	Backing up DB instance
Jul 20 9:03 AM	DB instance created

Monitoring

CURRENT VALUE	THRESHOLD	LAST HOUR	CURRENT VALUE	LAST HOUR
CPU 0.83%			Read IOPS 0/sec	
Memory 1,500 MB			Write IOPS 0.517/sec	
Storage 4,540 MB			Swap Usage 0 MB	

Instance Actions Tags Logs

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10. SQL Editor is Setup.

MySQL Workbench

File Edit View Database Tools Scripting Help

MySQL Connections

- Local instance wampmysql64
 - root
 - localhost:3306

Opening SQL Editor

An SQL editor instance for * is opening and should be available in a moment.

Please stand by...

Cancel

Models

sakila_full

MySQL Workbench 6.3.7 CE (winx64) extras

Search Windows

Shortcuts

- MySQL Utilities
- Database Migration
- MySQL Bug Reporter
- Workbench Blogs
- Planet MySQL
- Workbench Forum
- Scripting Shell

9:21 AM 7/20/2016

