

Creating instance for windows and linux by using AWS

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Weekday

Create an instance for windows

1. Click launch instance to creating a new Windows Instance

The screenshot shows the AWS EC2 Management Console dashboard. On the left, there's a sidebar with navigation links for EC2 Dashboard, Instances, Images, and Network & Security. The main area displays resource statistics: 0 Running Instances, 0 Elastic IPs, 0 Dedicated Hosts, 0 Snapshots, 0 Volumes, 0 Load Balancers, 0 Key Pairs, 1 Security Groups, and 0 Placement Groups. Below this is a "Create Instance" section with a "Launch Instance" button. To the right, there are sections for Account Attributes (Supported Platforms: VPC, Default VPC: vpc-4ec4bd2a), Additional Information (Getting Started Guide, Documentation, All EC2 Resources, Forums, Pricing, Contact Us), and AWS Marketplace (free software trial products). At the bottom, there are standard browser controls and a status bar showing the date and time.

2. Choose an Amazon machine image (AMI)

The screenshot shows the "Step 1: Choose an Amazon Machine Image (AMI)" page of the EC2 Launch Instance Wizard. It lists two AMIs: "Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-9abea4fb" and "Microsoft Windows Server 2012 R2 Base - ami-8d0acf6". Both are marked as "Free tier eligible". The "Ubuntu" option is selected. A callout box at the bottom left encourages launching a database instance using Amazon RDS. At the bottom, there's a "Launch a database using RDS" button and a link to "Microsoft Windows Server 2012 R2 with SQL Server Express - ami-4817rl22r". The interface includes a progress bar at the top indicating steps 1 through 7.

The screenshot shows the bottom of the EC2 Launch Instance Wizard, specifically the progress bar. It shows the user is on step 1 of 7, with other steps listed as 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Tag Instance, 6. Configure Security Group, and 7. Review. The status bar at the bottom indicates the date and time as 12:18 PM on 07-Jul-16.

3. Select Microsoft windows server 2012R2 Base (choose an instance type)

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 <small>Free tier eligible</small>	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

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4. Configure the instance details (according to the labs we don't need to do any configuration)

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 Launch into Auto Scaling Group

Purchasing option: Request Spot Instances

Network: vpc-4ec4bd2a (172.31.0.0/16) (default) Create new VPC

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

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

Domain join directory: None Create new directory

IAM role: None Create new IAM role

Shutdown behavior: Stop

Enable termination protection: Protect against accidental termination

Monitoring: Enable CloudWatch detailed monitoring

Cancel Previous Review and Launch Next: Add Storage

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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.

Cancel Previous Review and Launch Next: Tag Instance

6. 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

Cancel Previous Launch

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

Step 7: Review Instance Launch

Select an existing key pair or create a new key pair

Instance Type	ECUs
t2.micro	Variable

Security Groups

Security group name	Description
launch-wizard-1	launch-wizard

Type: RDP

Instance Details

Storage

Tags

Network Performance: Low to Moderate

Download Key Pair

Key pair name: marlon

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

8. Launch instance

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](#)
- [Amazon EC2: Microsoft Windows Guide](#)
- [Learn about AWS Free Usage Tier](#)

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)

Feedback English

marlon.pem

Show all downloads... 12:28 PM 07-Jul-16

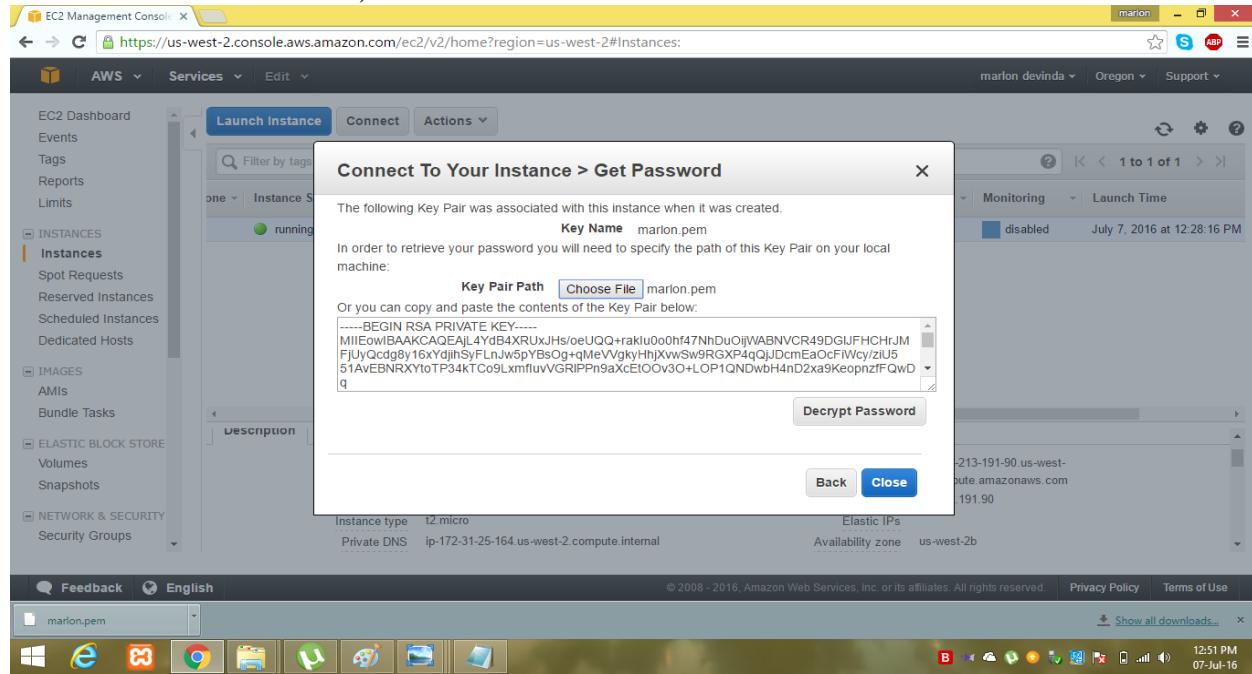
9. Connecting to the instance.

The screenshot shows the AWS EC2 Management Console interface. On the left, there's a sidebar with navigation links like EC2 Dashboard, Events, Tags, Reports, Limits, Instances, Images, Elastic Block Store, and Network & Security. The main area has tabs for Launch Instance, Connect, and Actions. A search bar at the top says "Filter by tags and attributes or search by keyword". Below it is a table with columns: one, Instance State, Status Checks, Alarm Status, Public DNS, Public IP, Key Name, Monitoring, and Launch Time. One row is visible: "running", "2/2 checks ... None", "ec2-54-213-191-90.us-west-2.compute.amazonaws.com", "54.213.191.90", "marlon", "disabled", "July 7, 2016 at 12:28:16 PM". Below the table is a detailed view of the instance: Instance ID (i-0b4b91c290600fdb6), Instance state (running), Instance type (t2.micro), Private DNS (ip-172-31-25-164.us-west-2.compute.internal), Public DNS (ec2-54-213-191-90.us-west-2.compute.amazonaws.com), Public IP (54.213.191.90), Elastic IPs, and Availability zone (us-west-2b). At the bottom, there are links for Feedback, English, Privacy Policy, Terms of Use, and a download link for marlon.pem. The system tray shows the date and time as 12:49 PM 07-Jul-16.

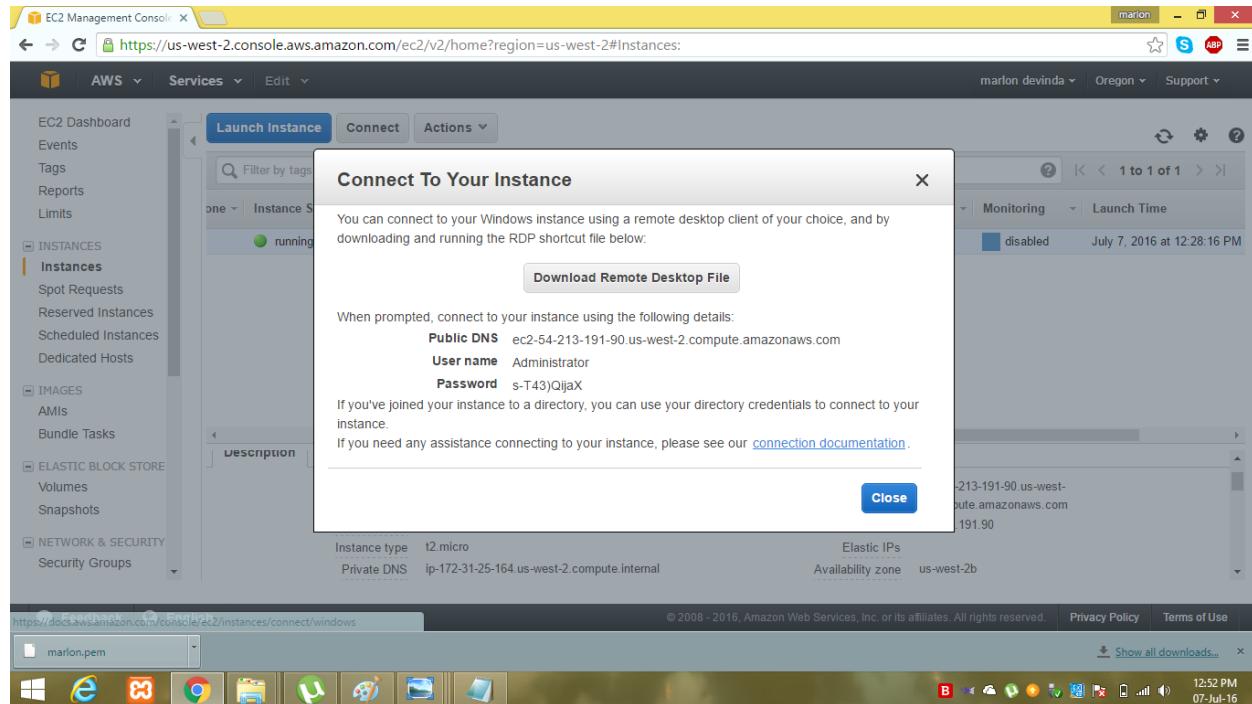
10. Connect to your windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below.

This screenshot is similar to the previous one but includes a modal dialog titled "Connect To Your Instance". The dialog contains instructions: "You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below." It features a "Download Remote Desktop File" button. Below the button, it says "When prompted, connect to your instance using the following details:" followed by "Public DNS ec2-54-213-191-90.us-west-2.compute.amazonaws.com", "User name Administrator", and "Password Get Password". There's also a "Close" button. The background shows the same EC2 instance details as the previous screenshot.

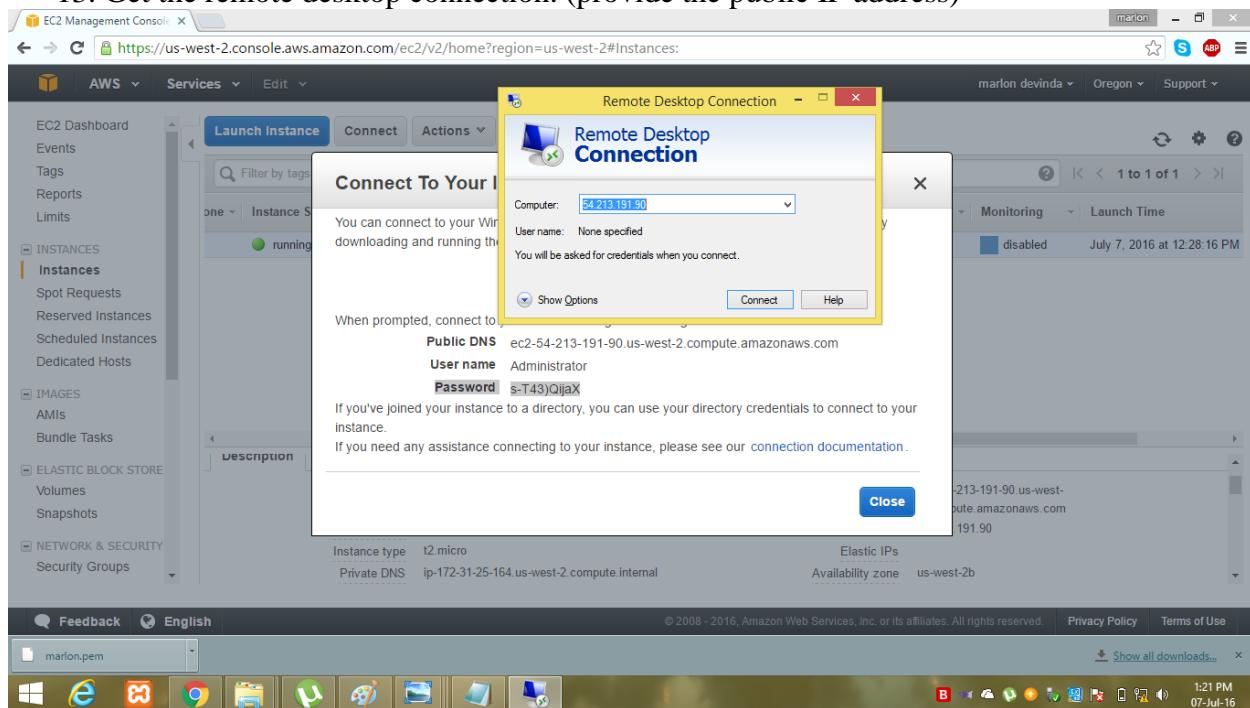
11. Connecting to the instance. (the following key pair was associated with this instance when it was created)



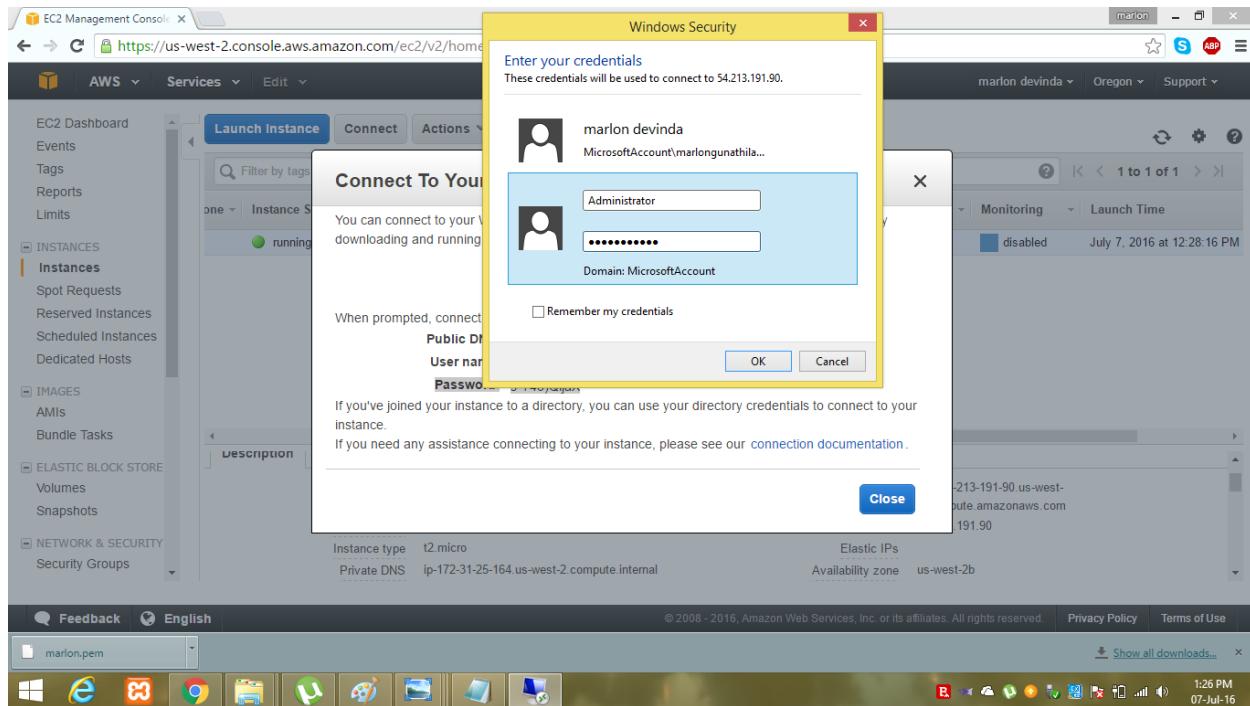
12. After decrypting the key value we can get the user name and the password.

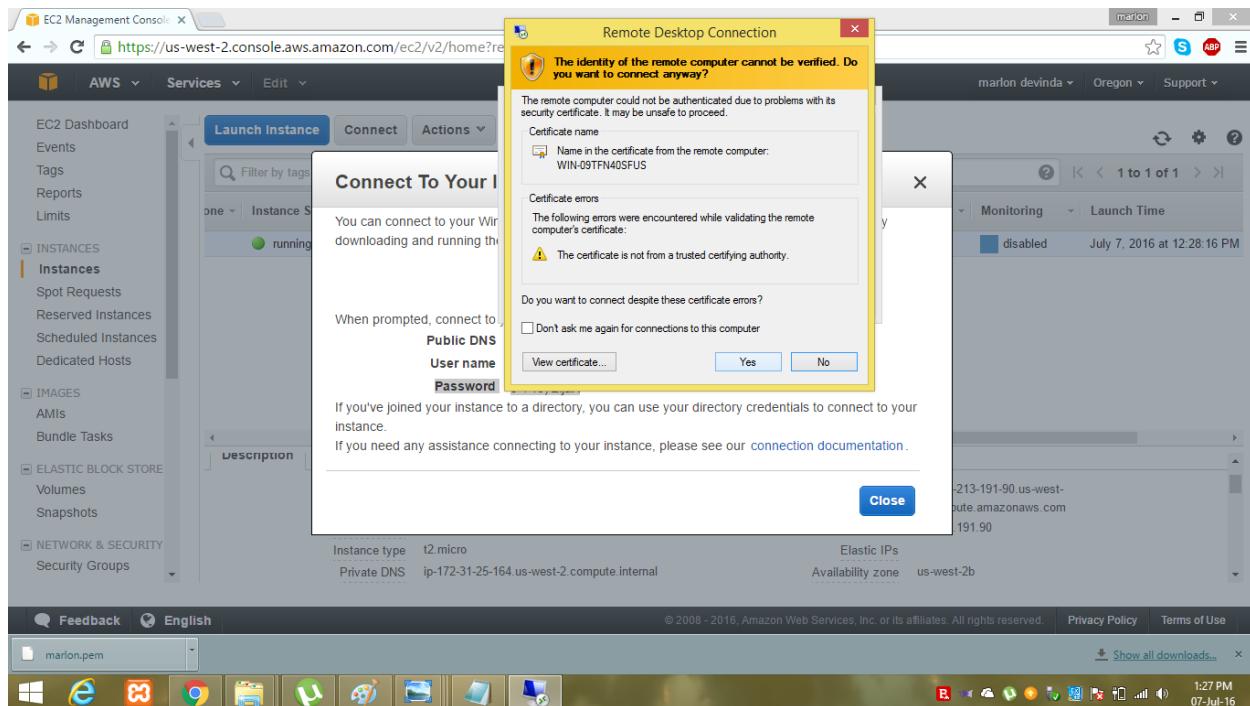


13. Get the remote desktop connection. (provide the public IP address)

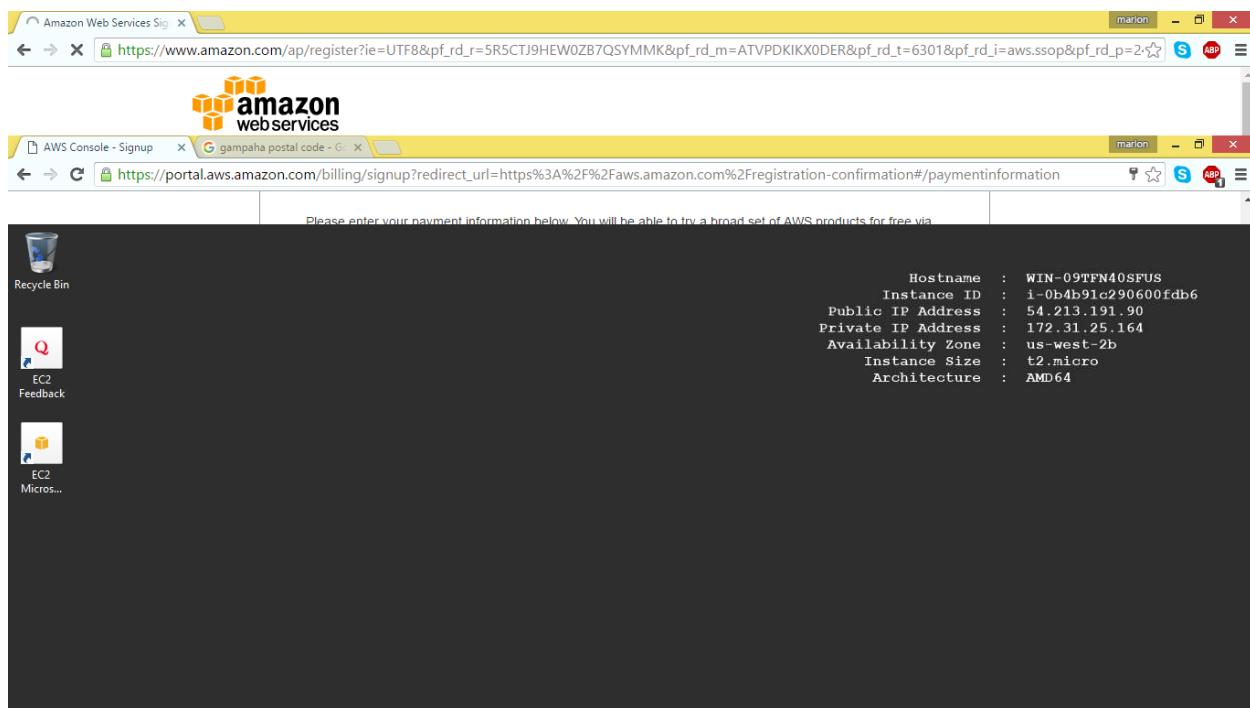


14. Provide user name as Administrator and the encrypted password.

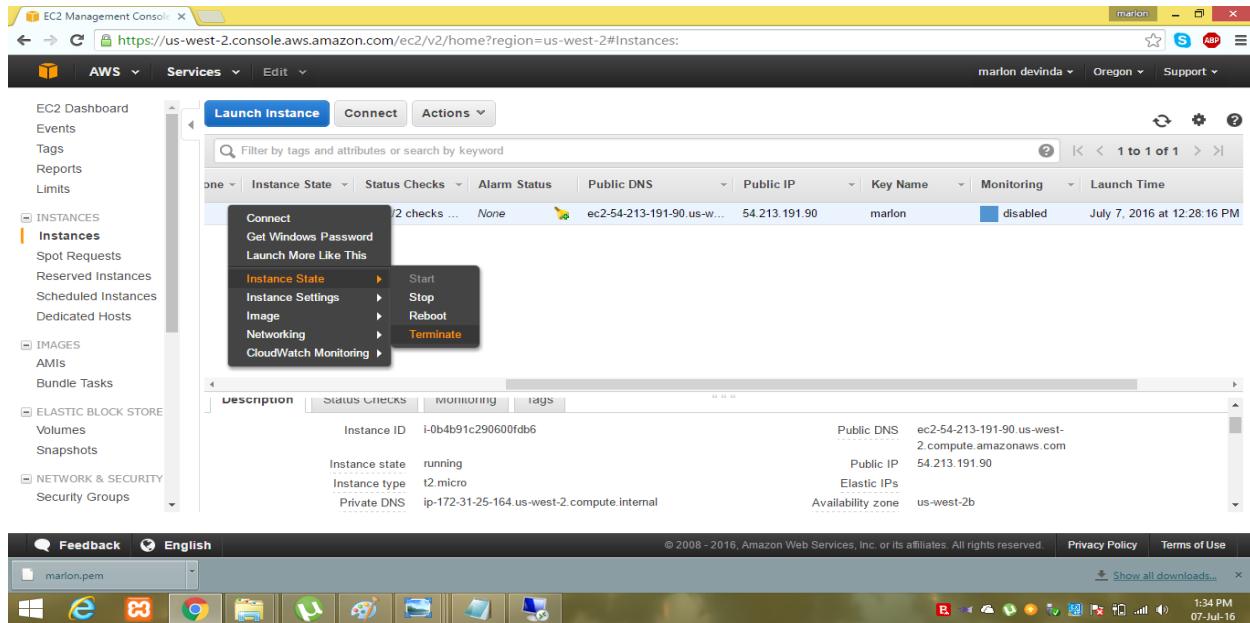




15. Finally you will be connected to the windows remote instance.

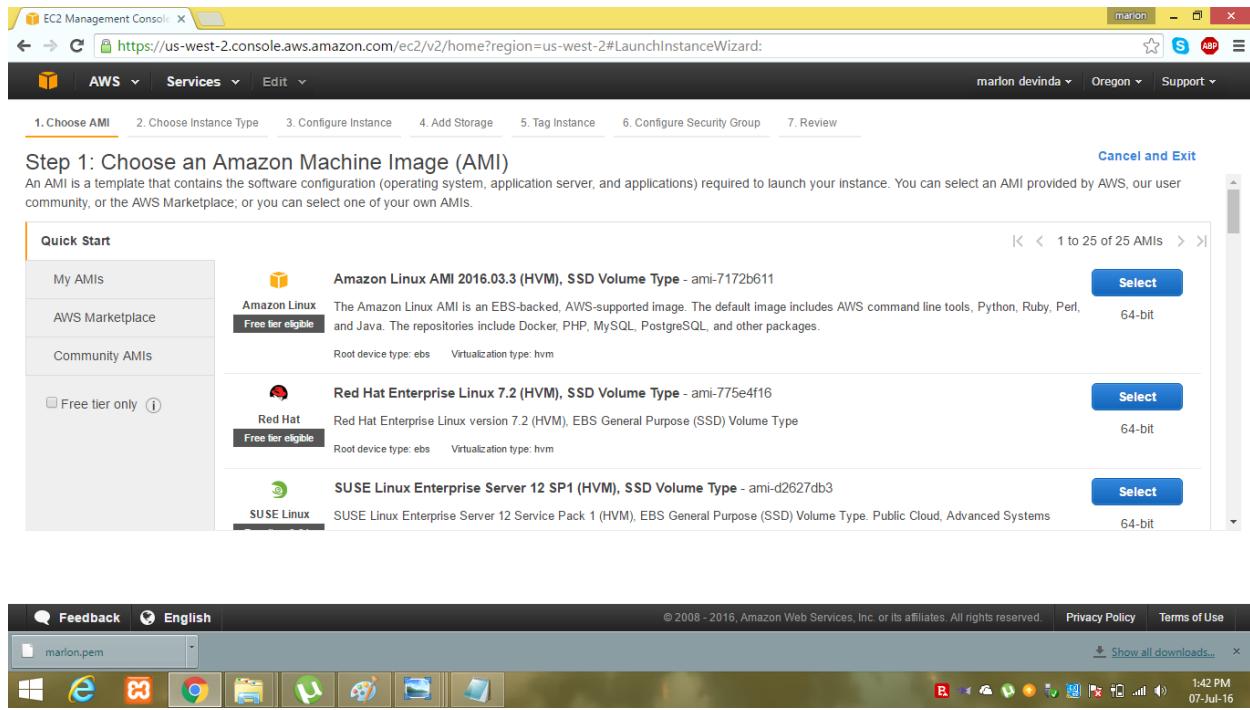


16. Terminate the windows remote instance.



Creating Linux instance

1. Choose an Amazon Machine image (AMI)



2. Choose an instance type for the linux.

	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 <small>Free tier eligible</small>	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	8	8	EBS only	-	Low to Moderate

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

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

Cancel Previous Review and Launch Next: Configure Instance Details

3. 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

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

4. Configure the security group

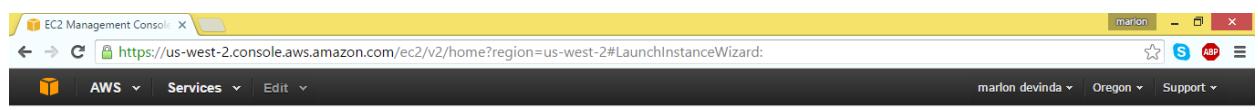
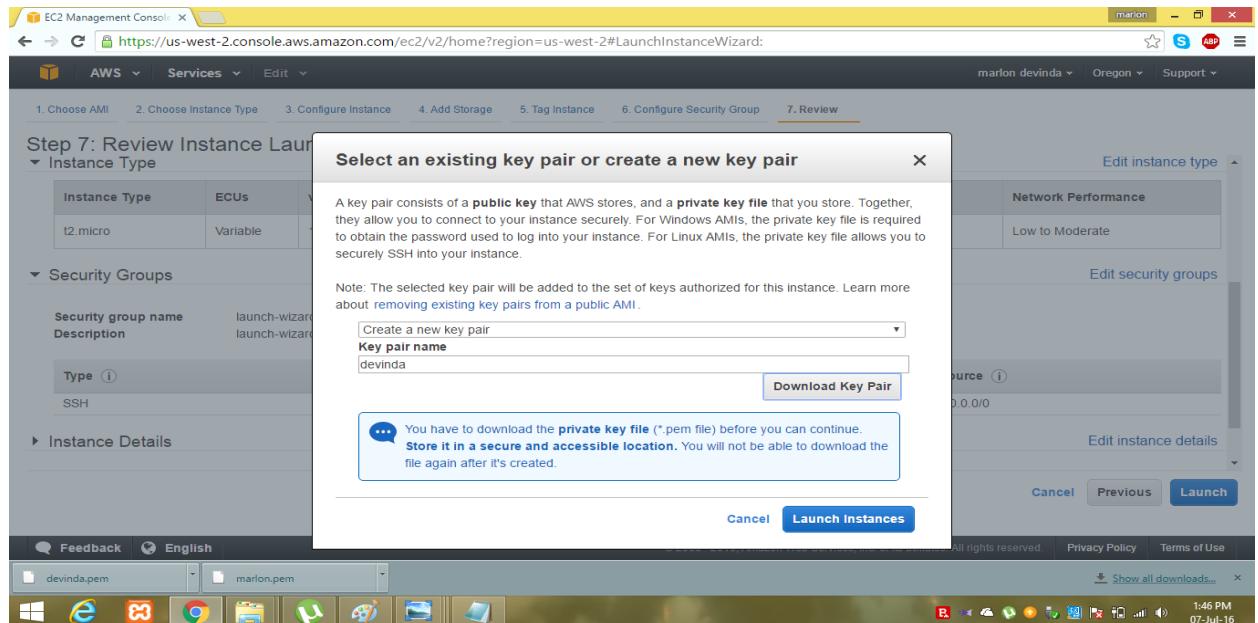
It is a set of firewall rules that control the traffic for your instance. We can add rules to allow specific traffic to reach your instance.

The screenshot shows the AWS EC2 Management Console with the URL <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard>. The page is titled "Step 6: Configure Security Group". It displays a form for creating a new security group named "launch-wizard-2" with a single rule allowing TCP port 22 from anywhere. A warning message at the bottom states: "Rules with source of 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." Navigation buttons include "Cancel", "Previous", and "Review and Launch".

5. Selecting an existing key pair or create a new key pair

The screenshot shows the AWS EC2 Management Console with the URL <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard>. The page is titled "Step 7: Review Instance Launch". A modal dialog box is open, titled "Select an existing key pair or create a new key pair". It contains instructions about key pairs and a dropdown menu where "Create a new key pair" is selected. A note below the dropdown says: "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](#)". At the bottom of the dialog are "Cancel" and "Launch Instances" buttons. The background shows the instance configuration details, including the instance type (t2.micro), security group (launch-wizard-2), and network performance settings.

6. Then it will help to download the .pem file.



Launch Status

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](#)

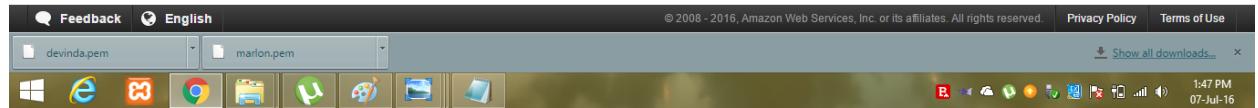
While your instances are launching you can also

[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](#)



7. Download putty.exe and puttyGen.rxe.

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:	shalsums	(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

PuTTY:	putty.exe	(signature)
PuTTYtel:	puttytel.exe	(signature)
PSCP:	pscp.exe	(signature)
PSFTP:	psftp.exe	(signature)
Plink:	plink.exe	(signature)
Pageant:	pageant.exe	(signature)
PuTTYgen:	puttygen.exe	(signature)

A .ZIP file containing all the binaries (except PuTTYtel), and also the help files

Waiting for tartarus.org... (signature)

Downloads: devinda.pem marlon.pem Show all downloads... 1:48 PM 07-Jul-16

Run the run putty key

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

Launch Instance Connect Actions ▾

Putty Configuration

Category: Session

Basic options for your PuTTY session

Specify the destination you want to connect to:
 Host Name (or IP address): 54.191.114.59 Port: 22

Connection type: SSH Raw Telnet Rlogin Serial

Load, save or delete a stored session
 Saved Sessions

Default Settings

Close window on exit: Always Never Only on clean exit

Open Cancel

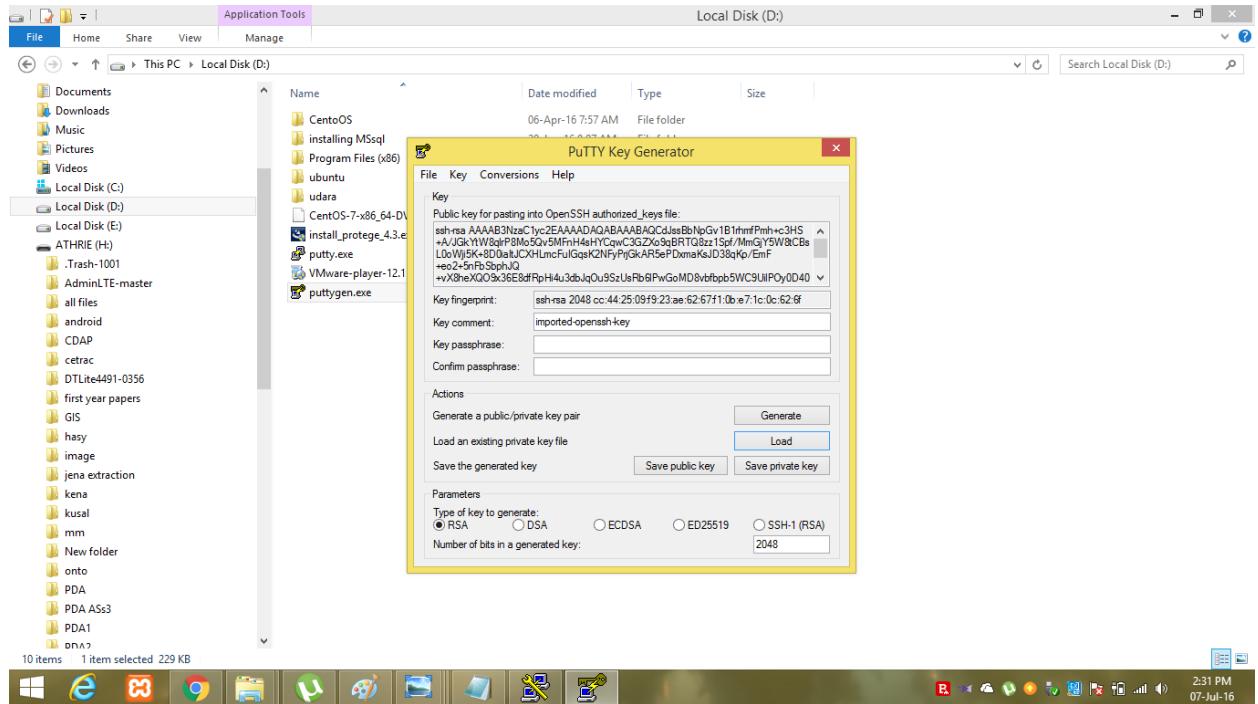
status Checks Alarm Status Public DNS Public DNS None 1 to 2 of 2 1:48 PM 07-Jul-16

2/2 checks ... None ec2-54-191-114-59.us-west-2.compute.amazonaws.com 54.191.114.59

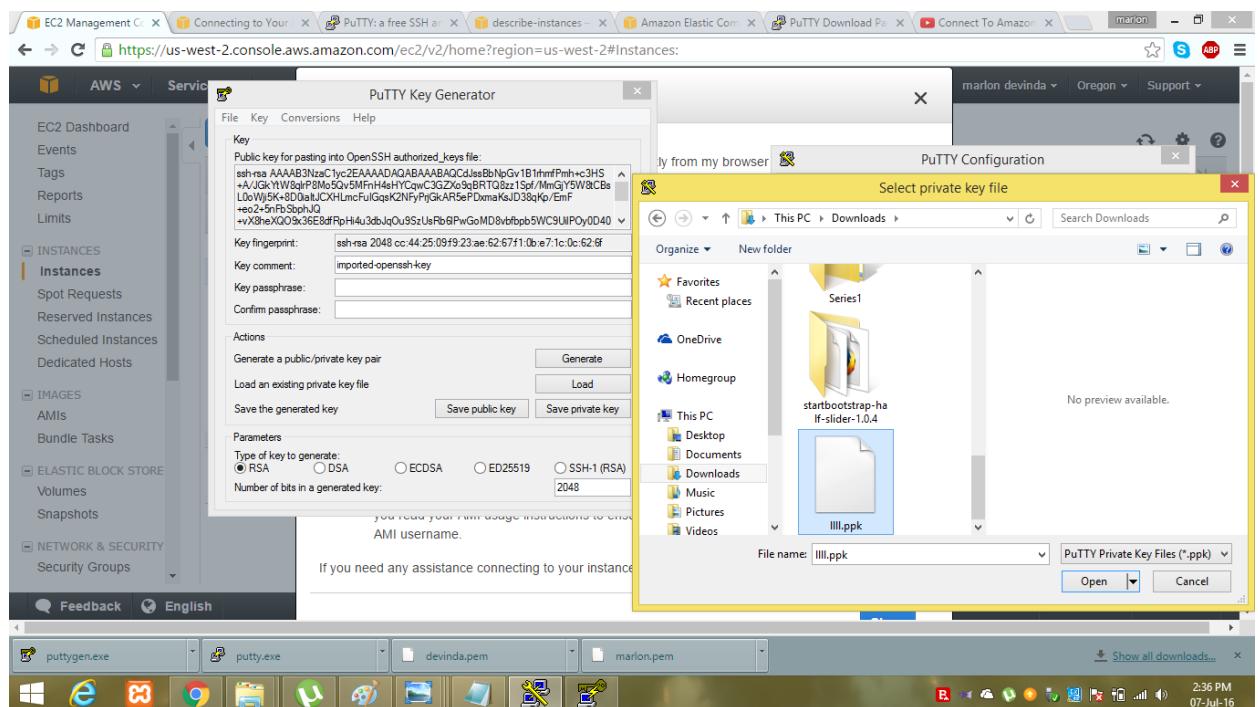
Public DNS: ec2-54-191-114-59.us-west-2.compute.amazonaws.com
 Public IP: 54.191.114.59
 Elastic IPs

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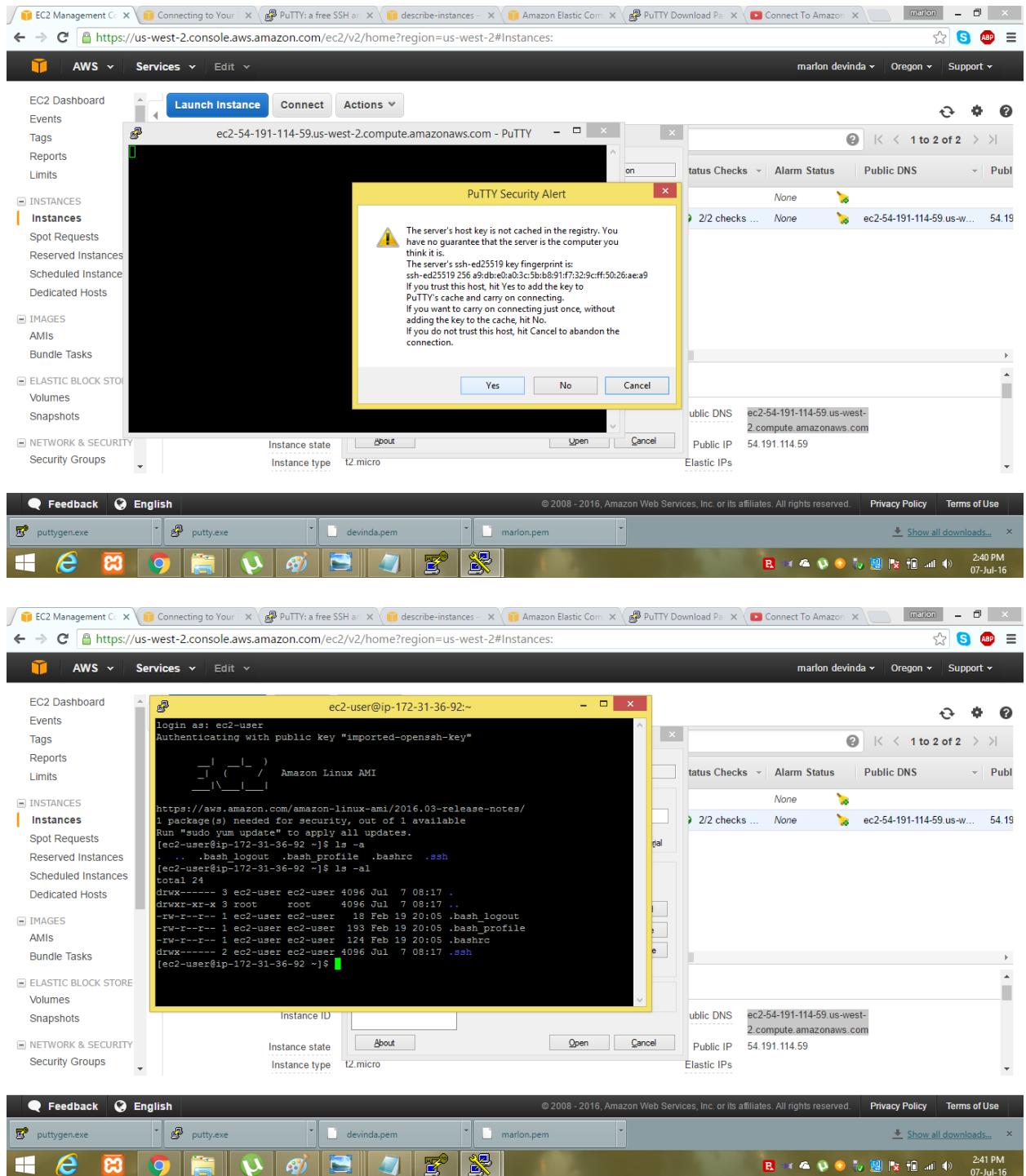
Add the key value



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



9. Connecting to the linux instance



10. Finally we can stop the running linux instance.