Enterprise Standards and Best Practices for IT Infrastructure

Lab Assignment 01 & 02

Getting Started with Amazon EC2 Windows & Linux Instances

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Creating an Instance for windows

Prerequisites

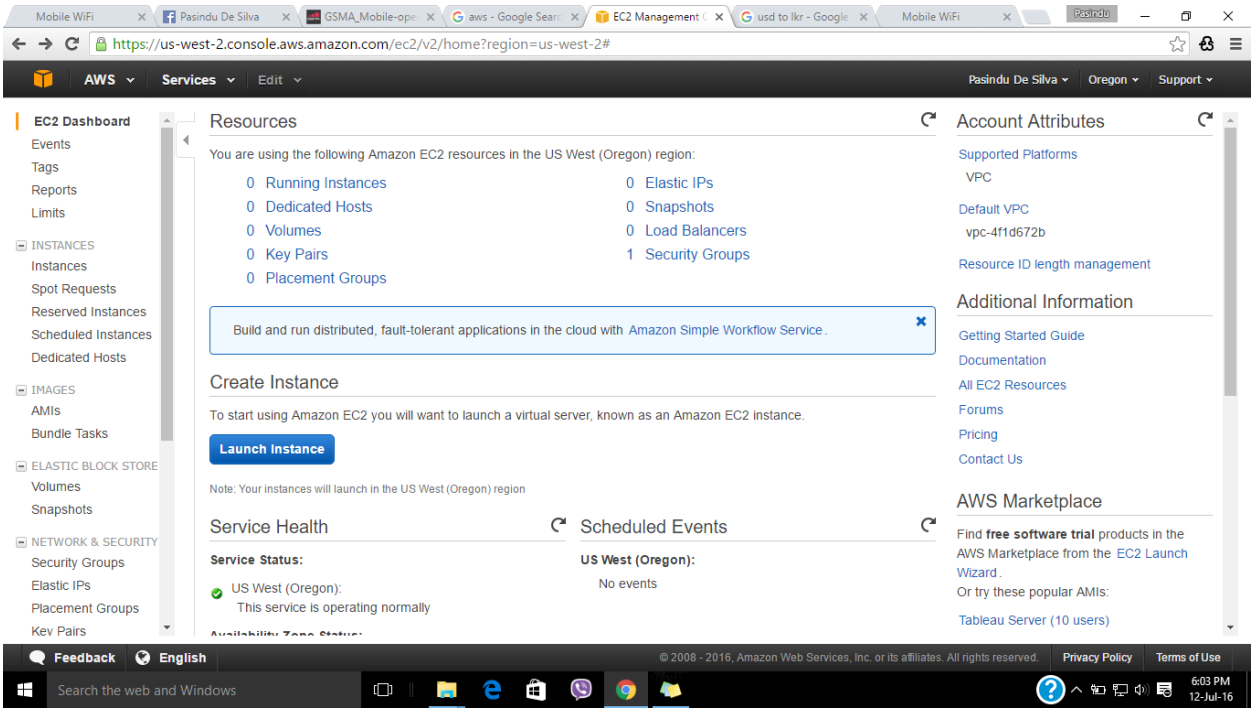
First of all, be sure that you've completed the steps in Setting Up with Amazon EC2.

Setting Up with Amazon EC2

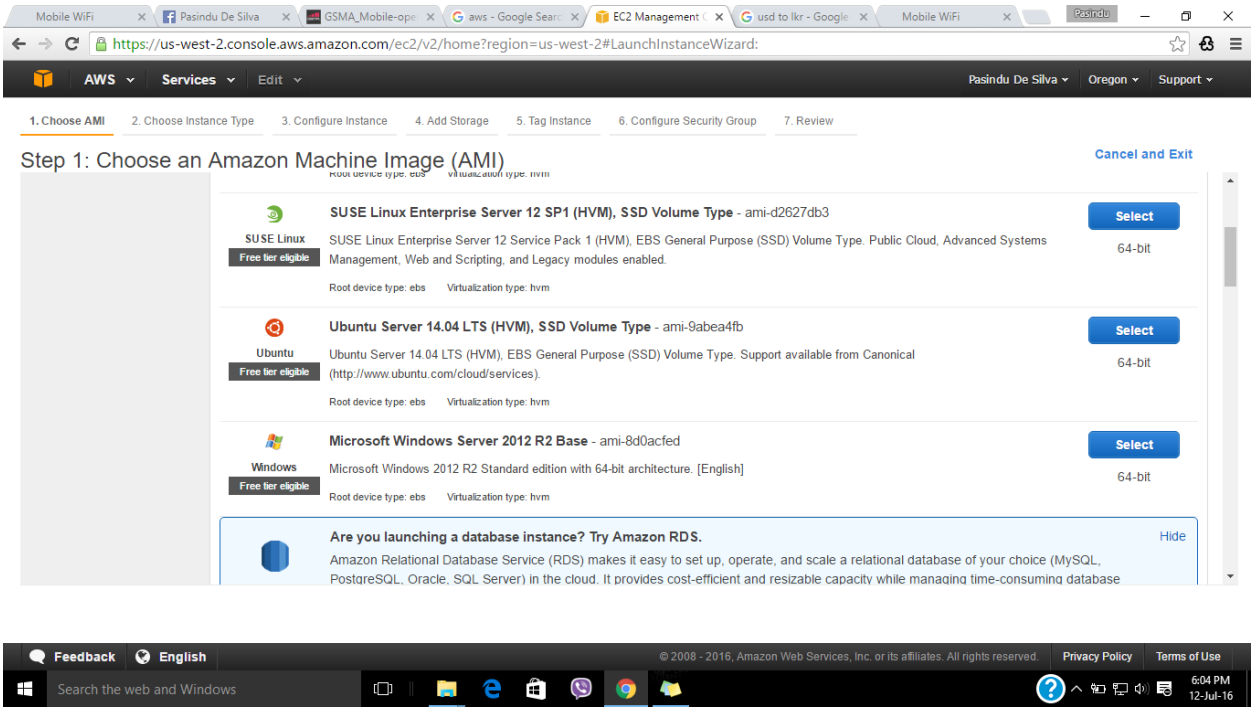
If you've already signed up for Amazon Web Services (AWS), you can start using Amazon EC2 immediately. You can open the Amazon EC2 console, click **Launch Instance**, and follow the steps in the launch wizard to launch your first instance.

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:

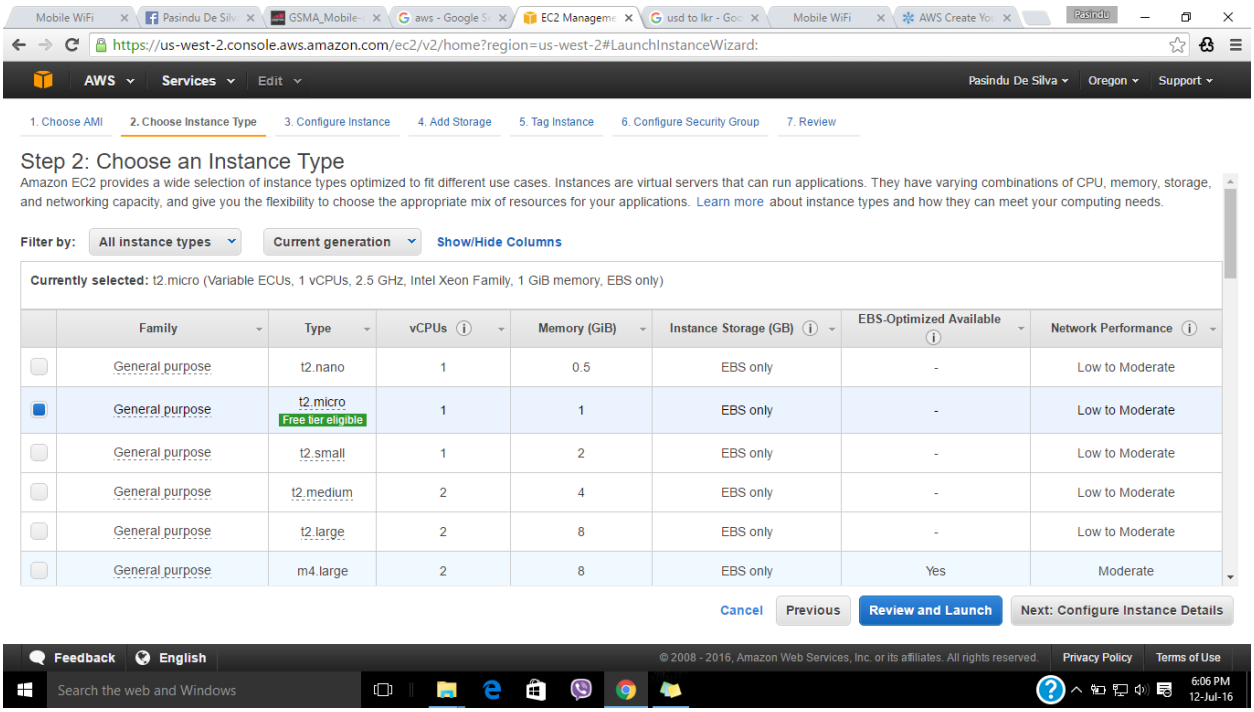
1. Launch an Instance to creating a new Windows Instance
   Open the Amazon EC2 console at https://console.aws.amazon.com/ec2/. And choose **Launch Instance**.



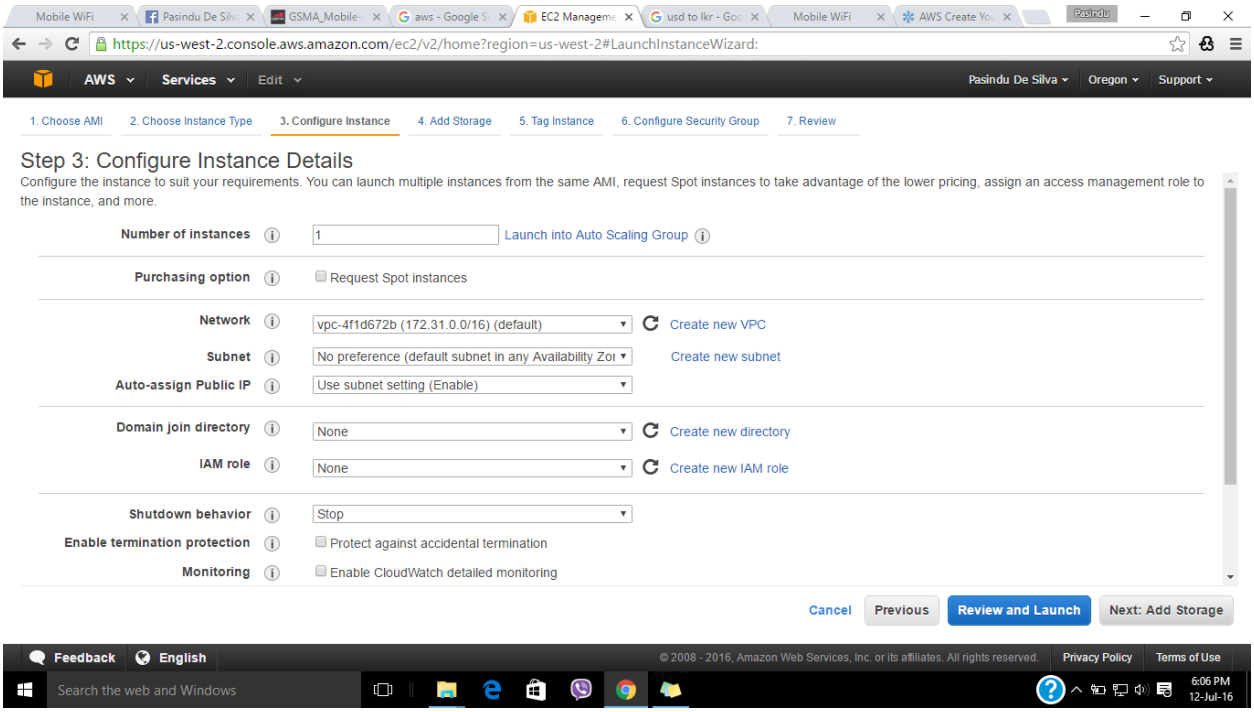
2. Choose an Amazon machine image (AMI)
   From the available Amazon machine images choose a Microsoft Windows server 2012R2 Base.



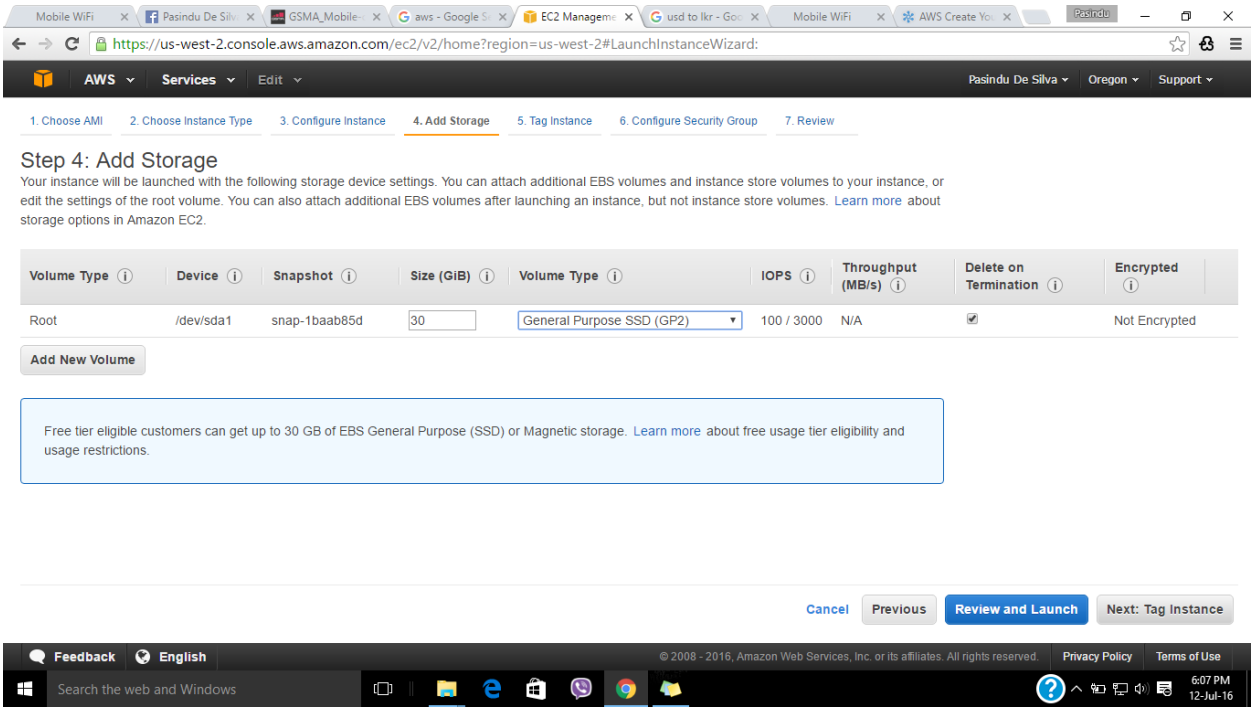
3. Choose an Instance type.



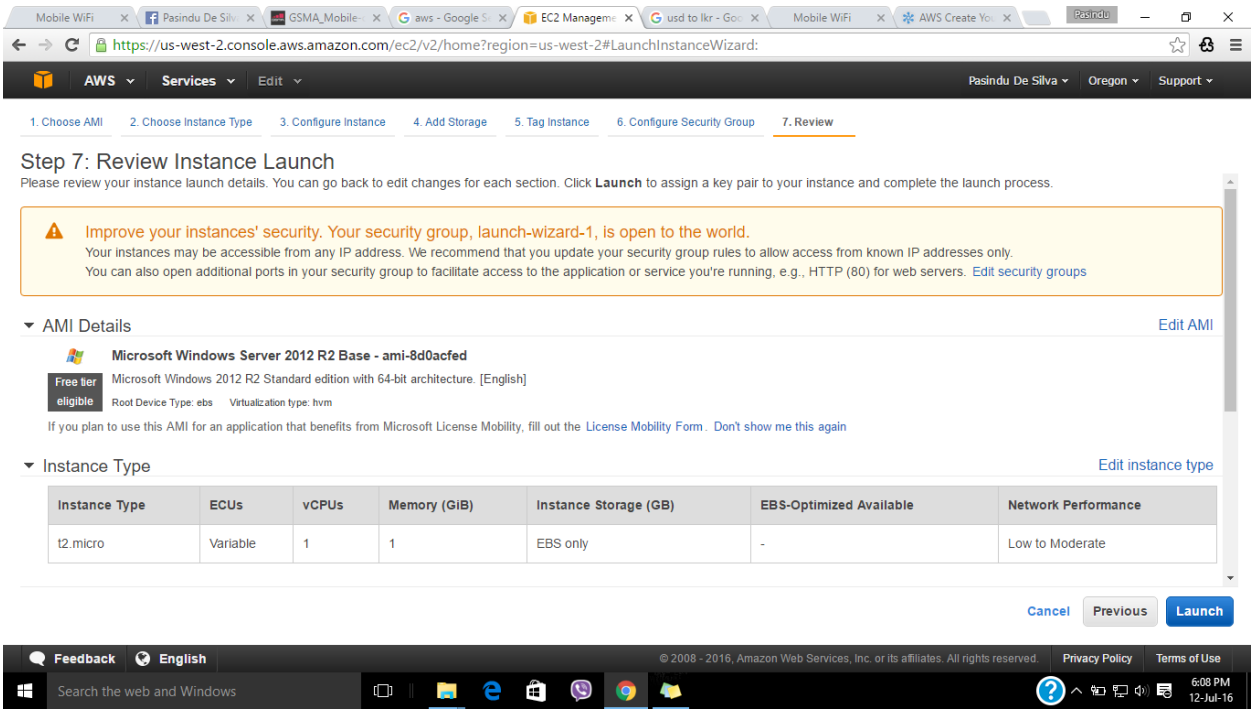
4. Configure the instance details (No need to do any additional modifications. Keep them as it is)



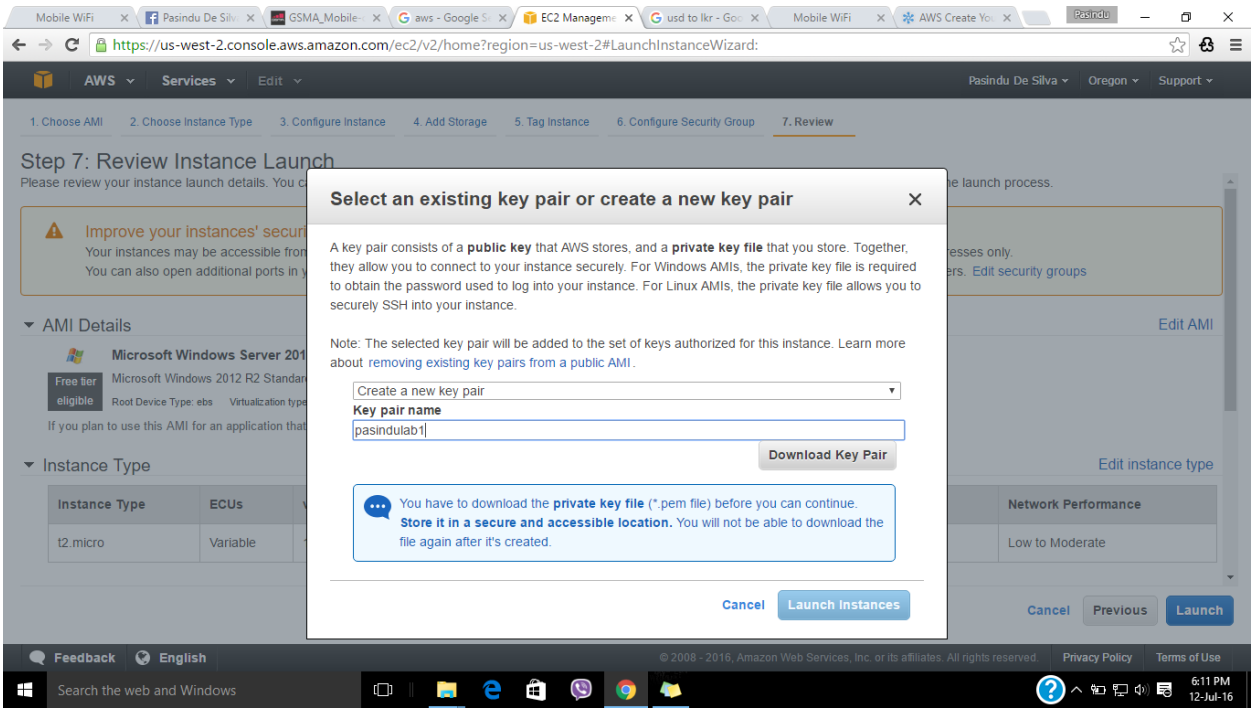
5. Add storage



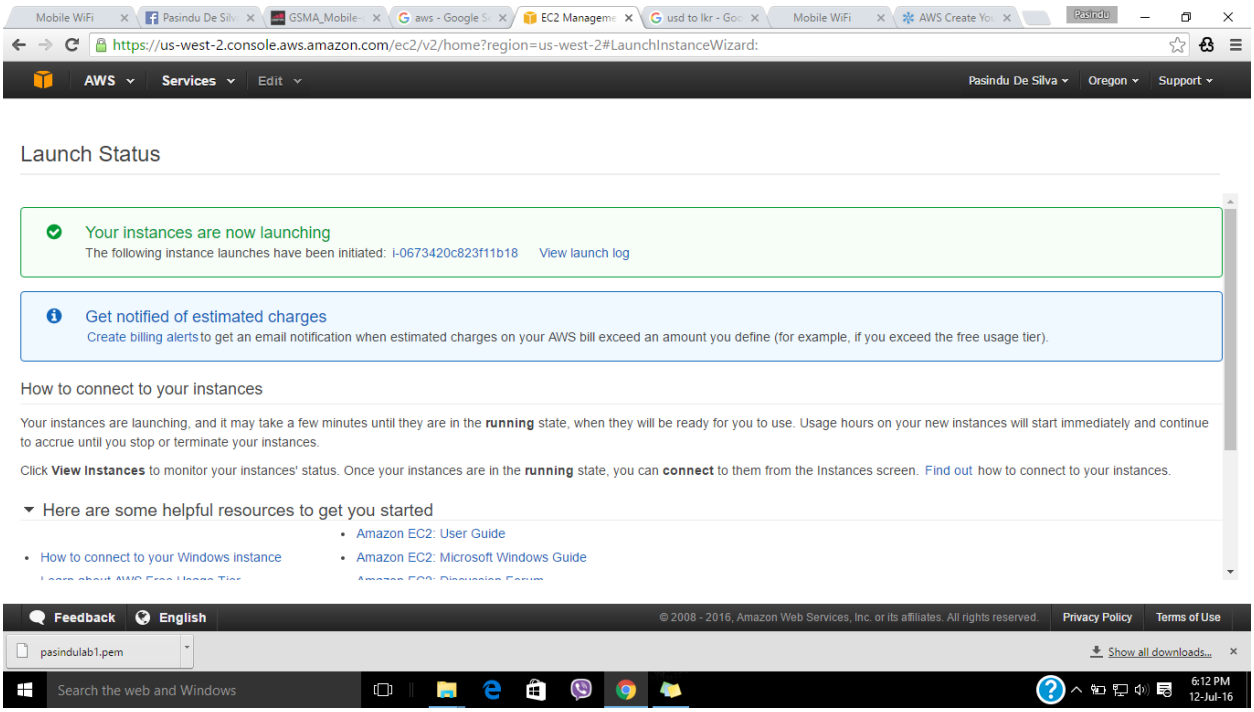
6. Review instance launce



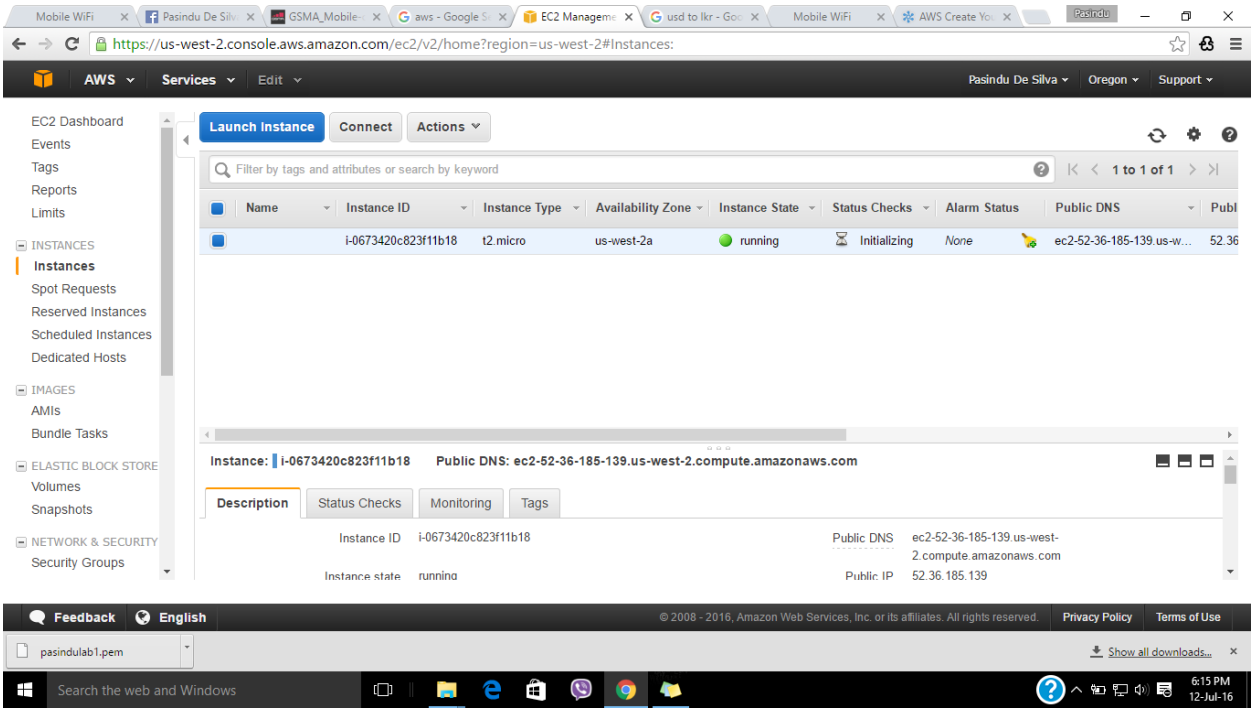
7. Select an existing key pair or create a new key pair



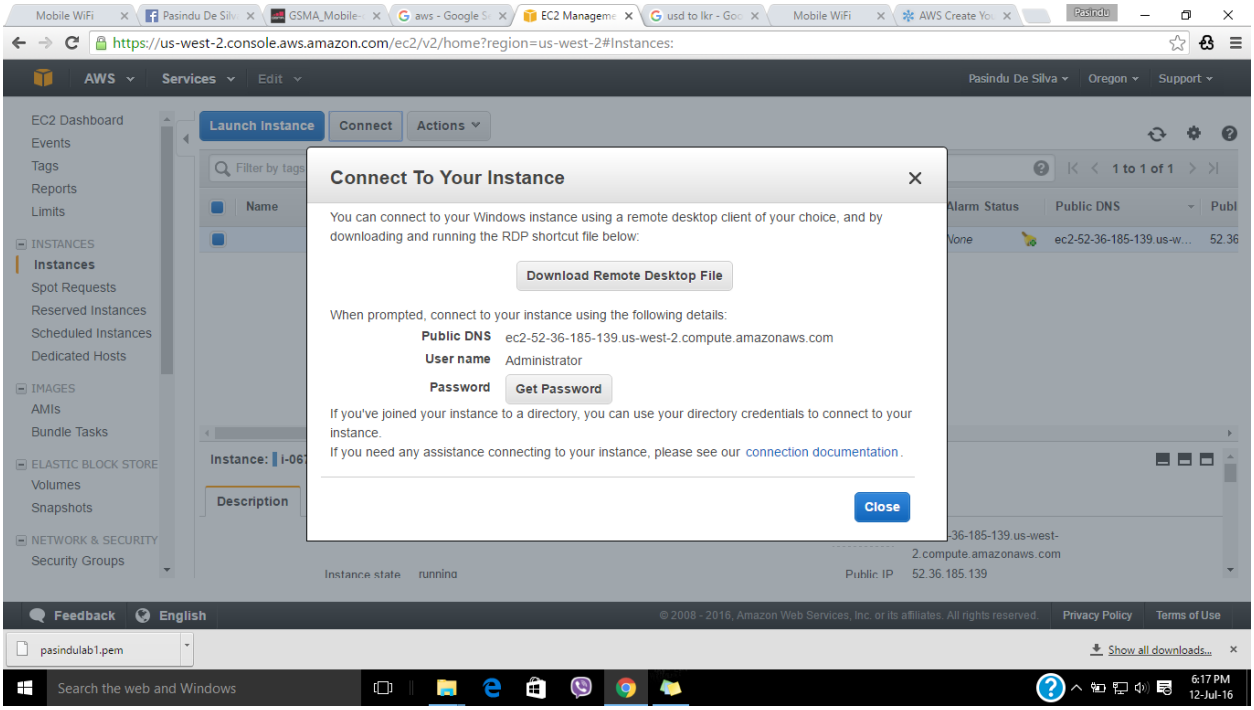
8. Launch instance



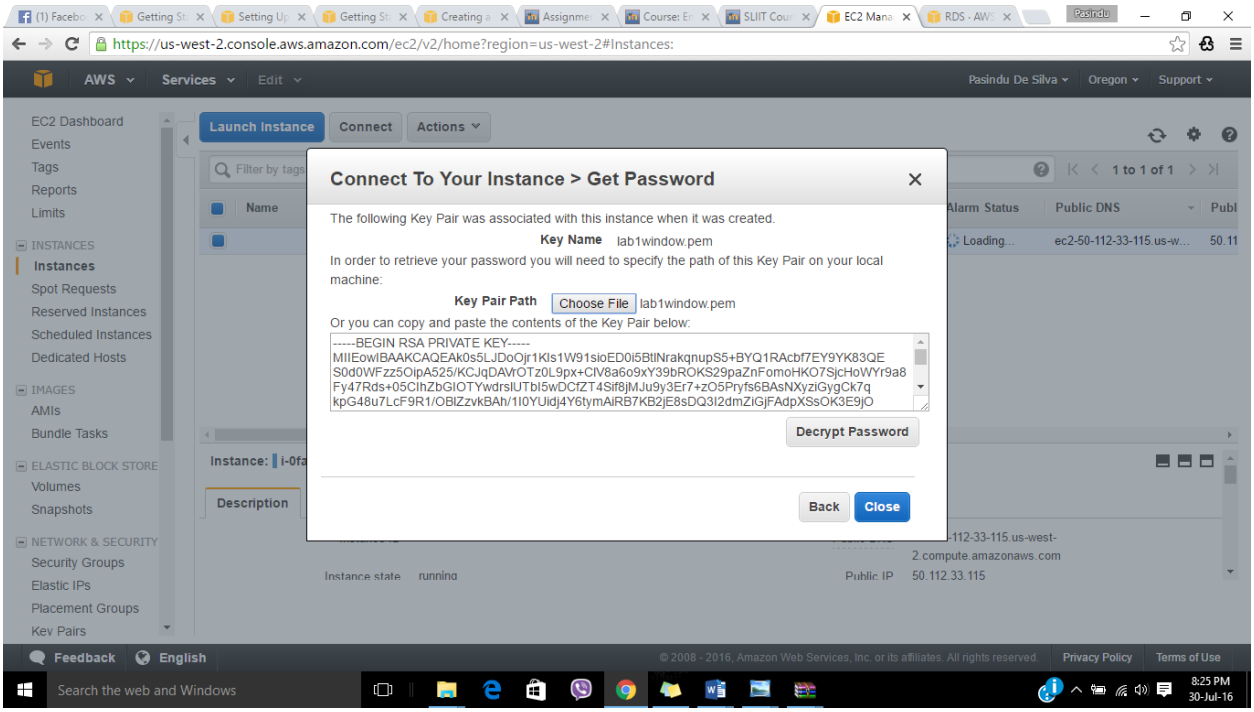
9. Connecting to the instance.



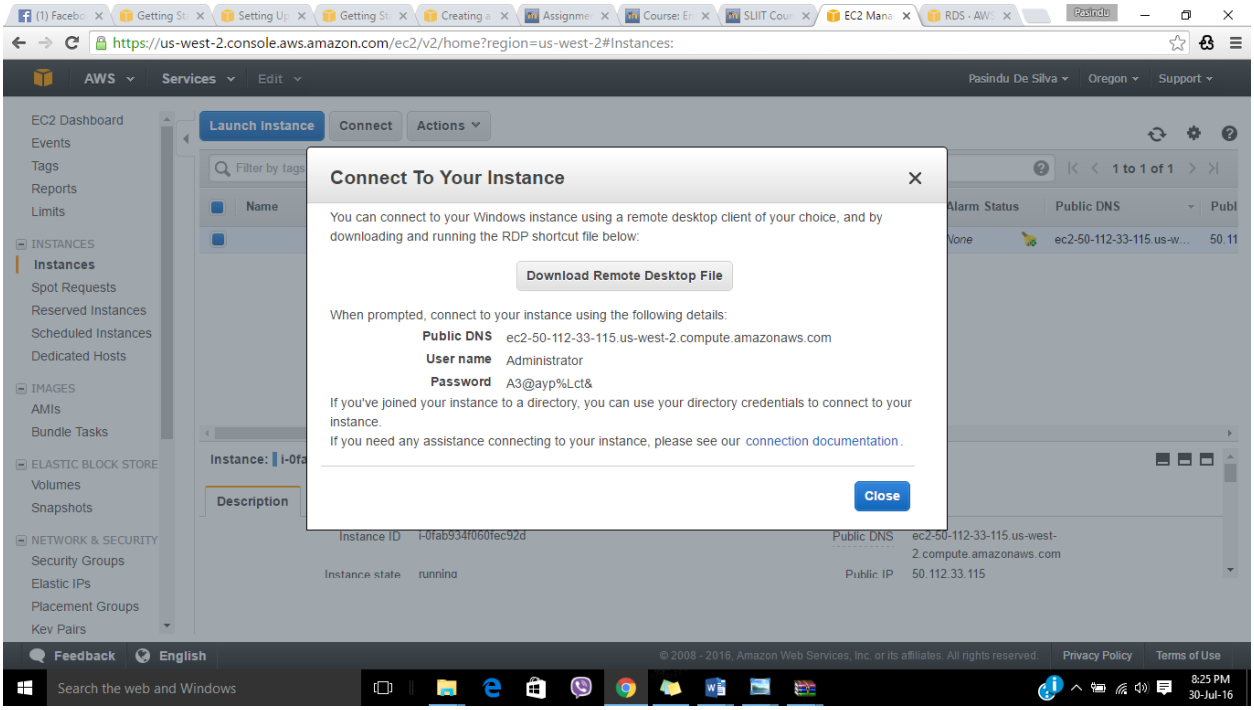
10. Connect to your windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below.



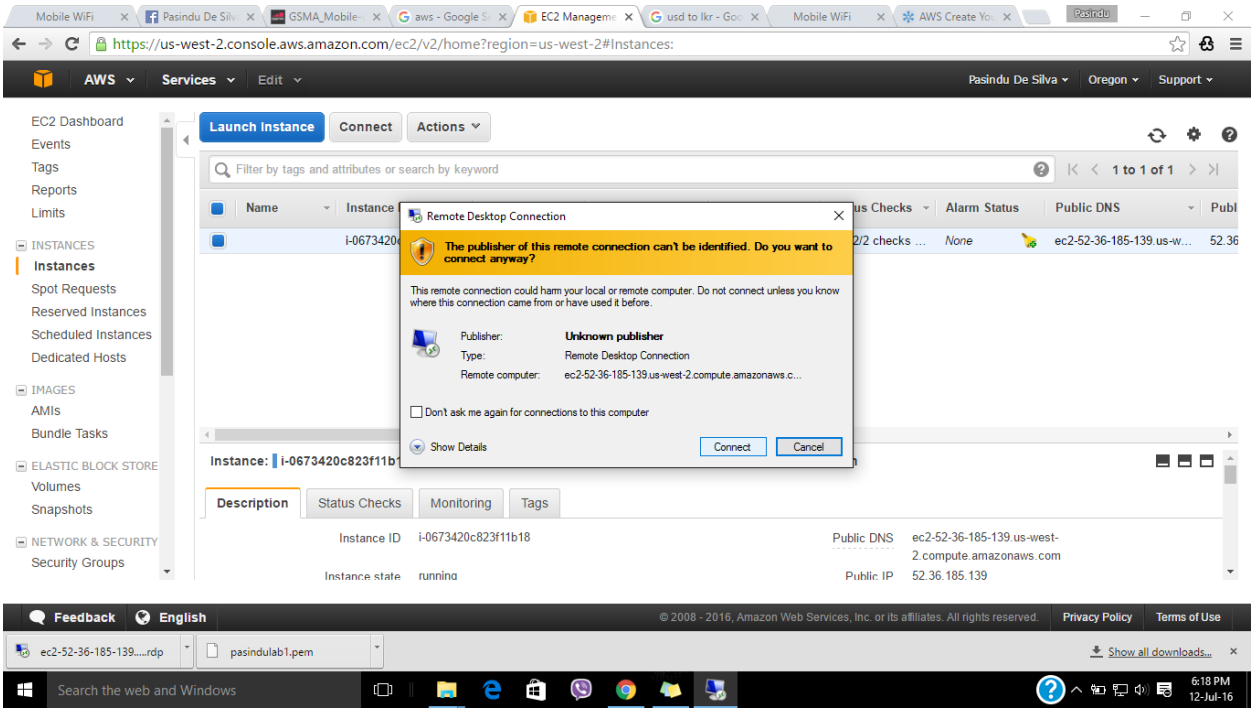
11. Connecting to the instance. The following key pair was associated with this instance when it was created.



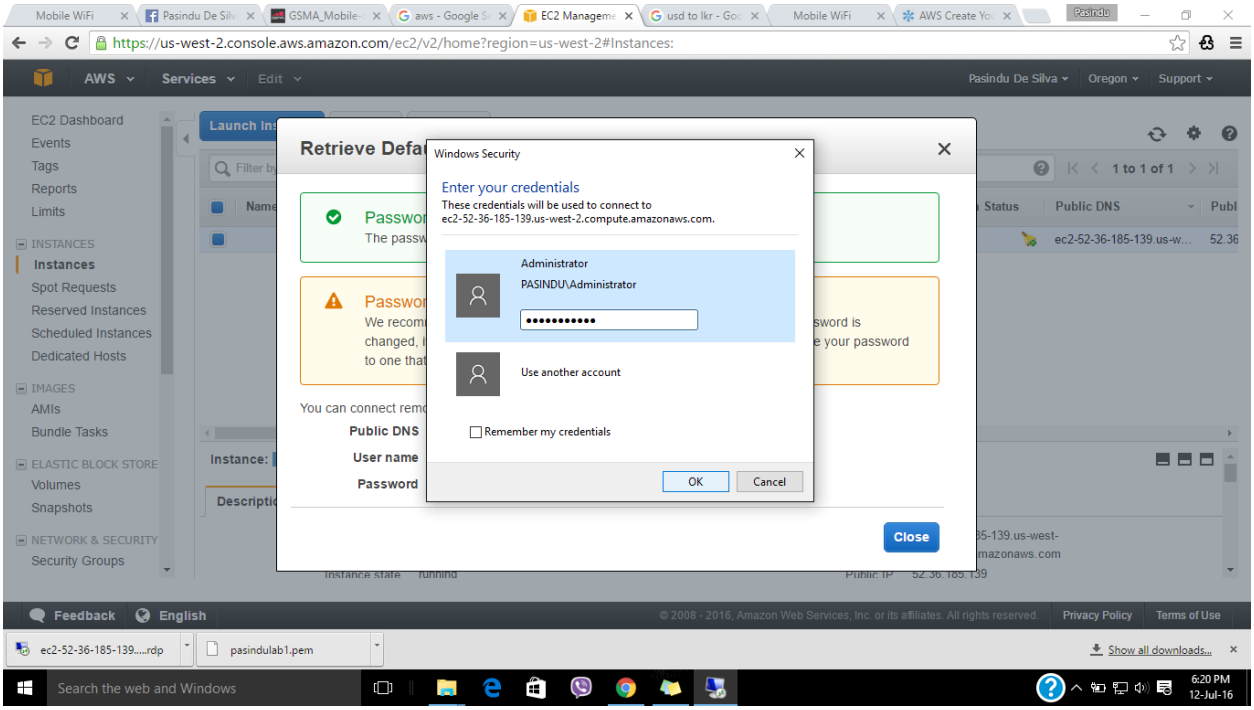
12. After decrypting the key value we can get the user name and the password.

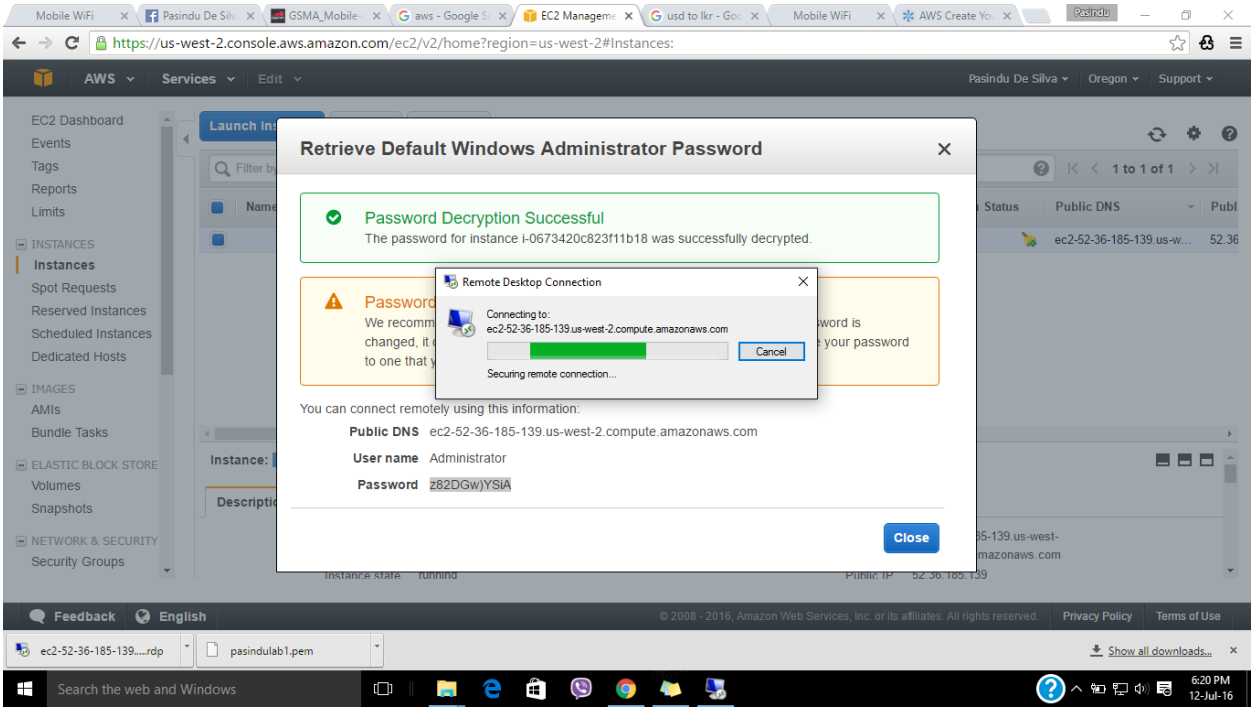


13. Get the remote desktop connection. Provide the public IP address.

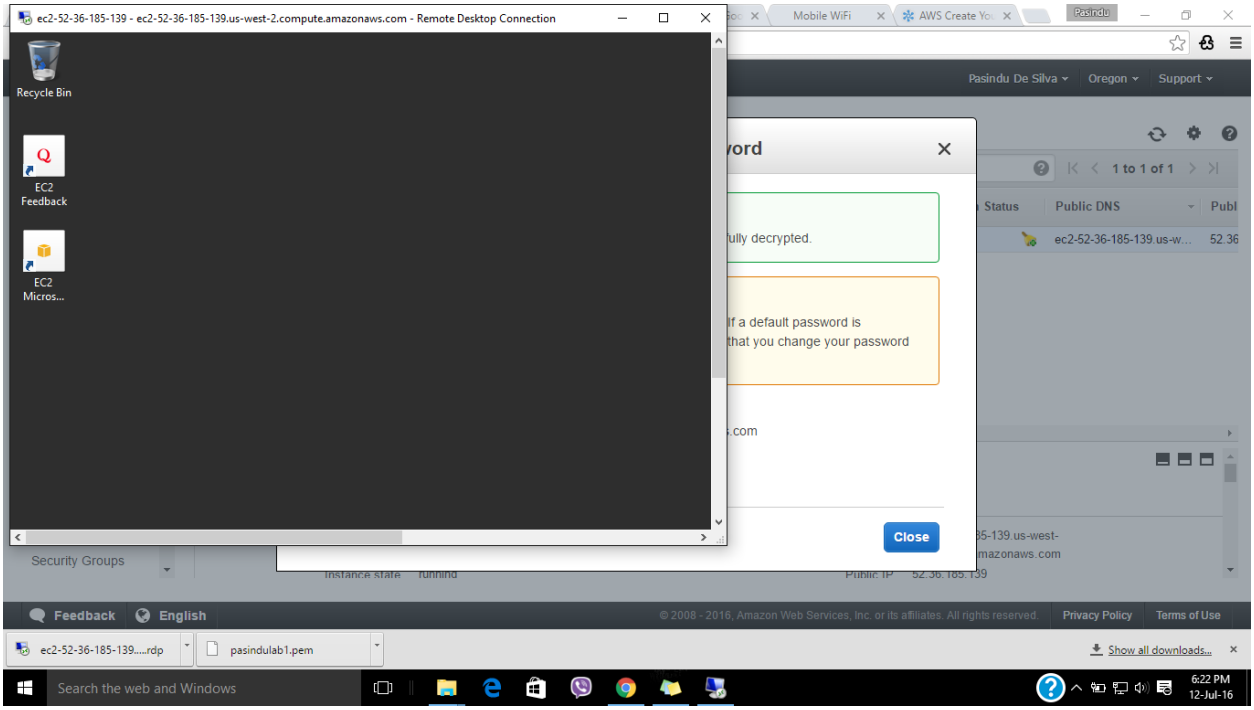


14. Provide user name as Administrator and the encrypted password.

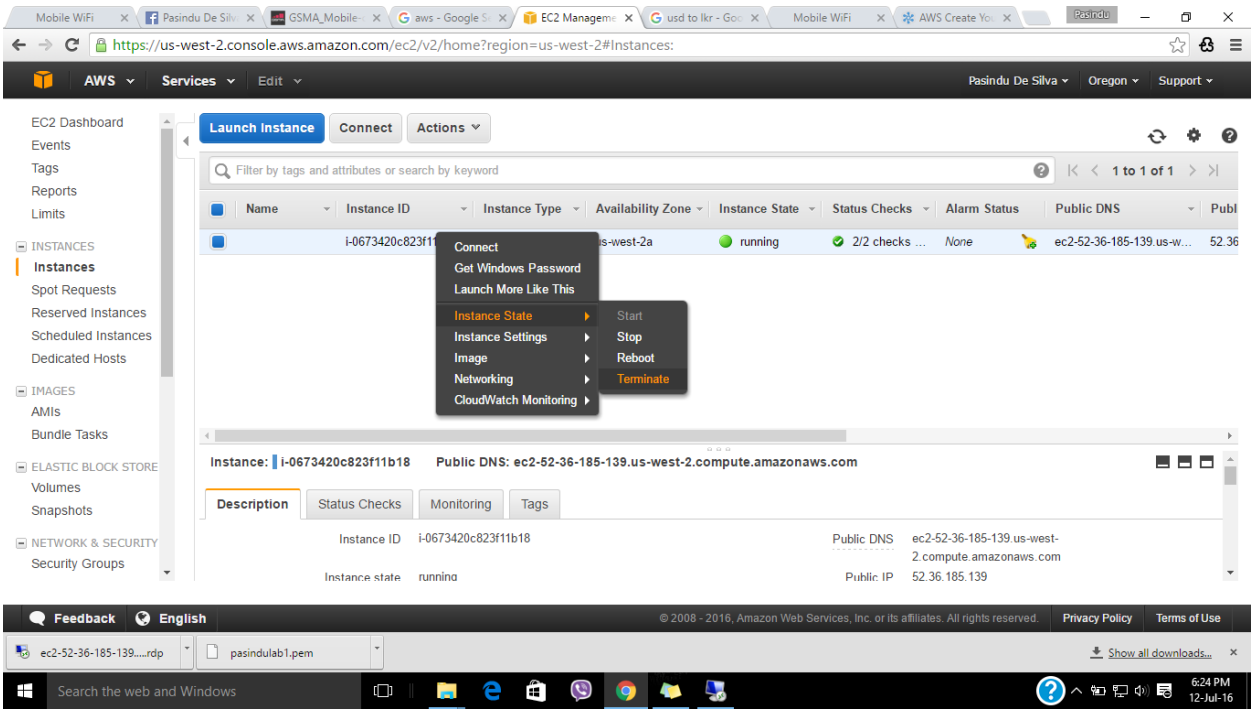


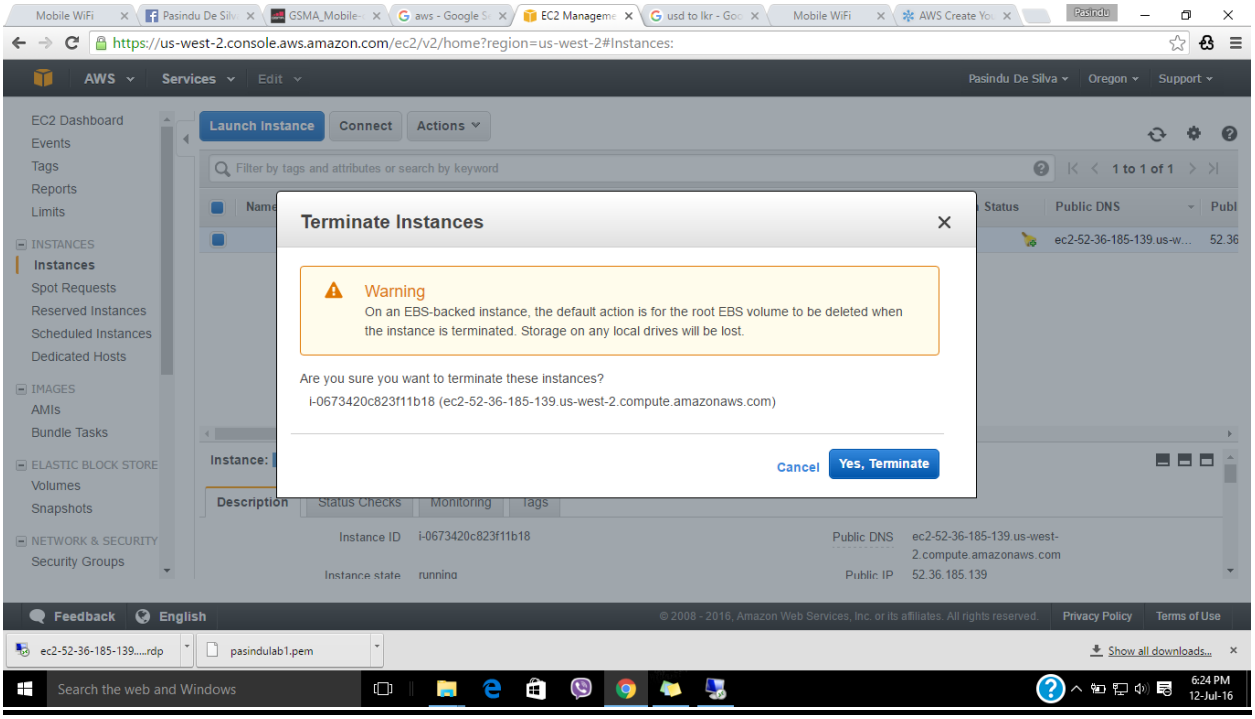


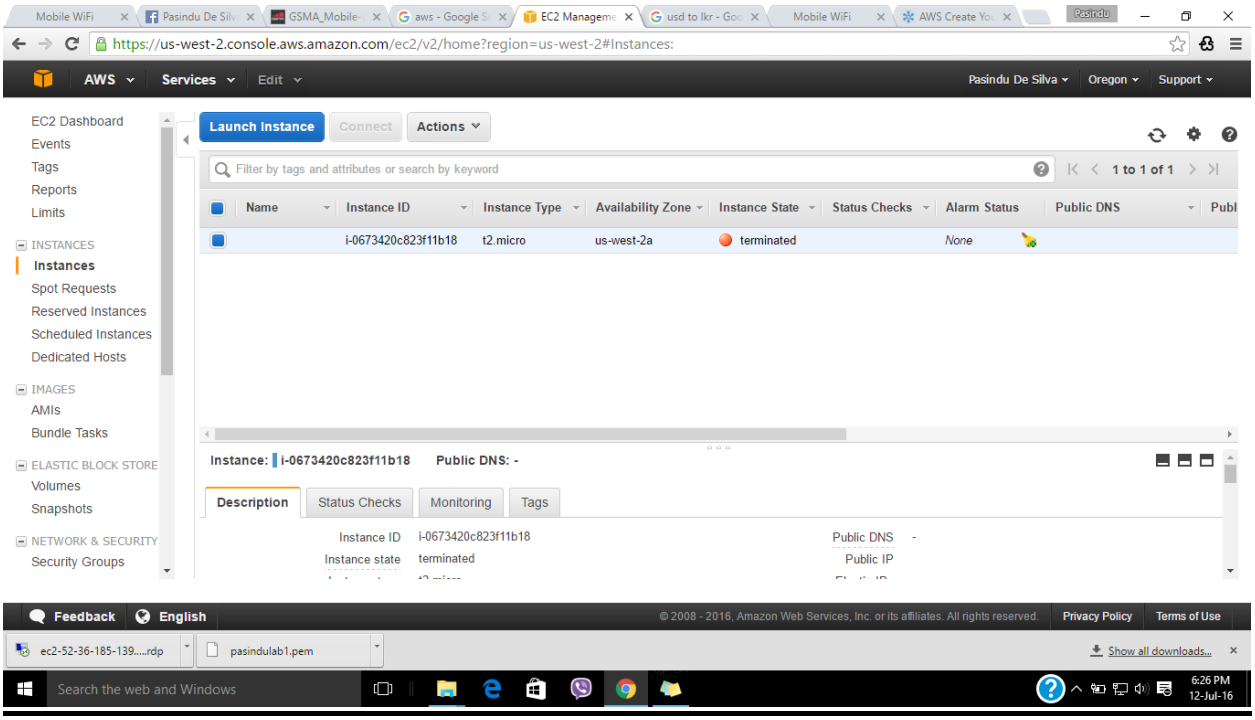
15. Finally you will be connected to the windows remote instance.



16. Terminate the windows remote instance.

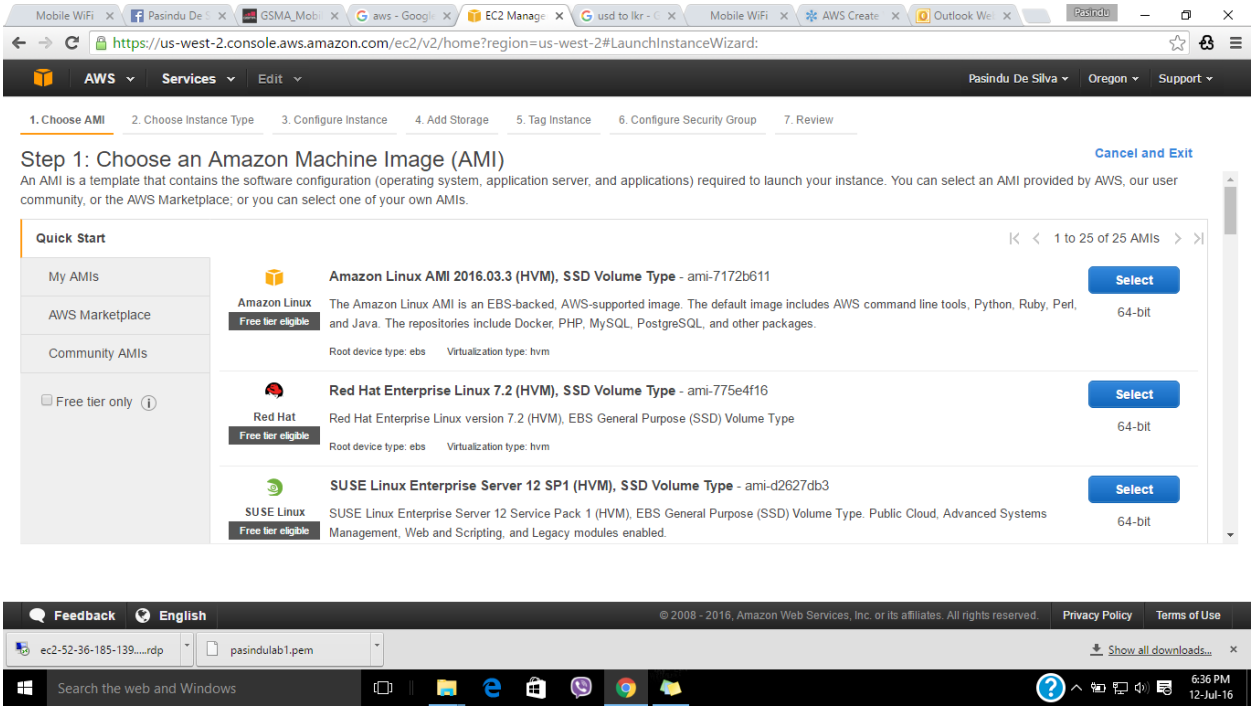



Terminate Instances
Warning
On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.
Are you sure you want to terminate these instances?
i-0673420c823f11b18 (ec2-52-36-185-139.us-west-2.compute.amazonaws.com)
Cancel
Yes, Terminate

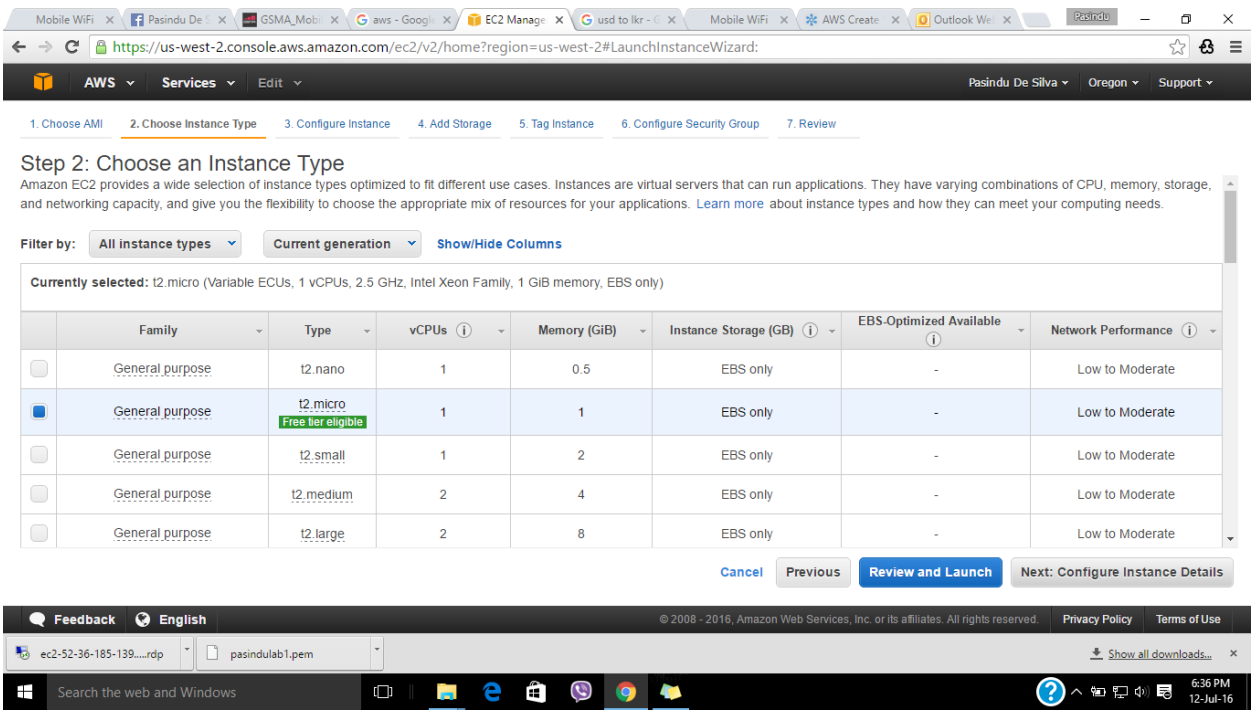

Launch Instance
Connect
Actions
i-0673420c823f11b18
t2.micro
us-west-2a
terminated
None
Instance: i-0673420c823f11b18 Public DNS: -
Description
Status Checks
Monitoring
Tags

Creating an Instance for linux

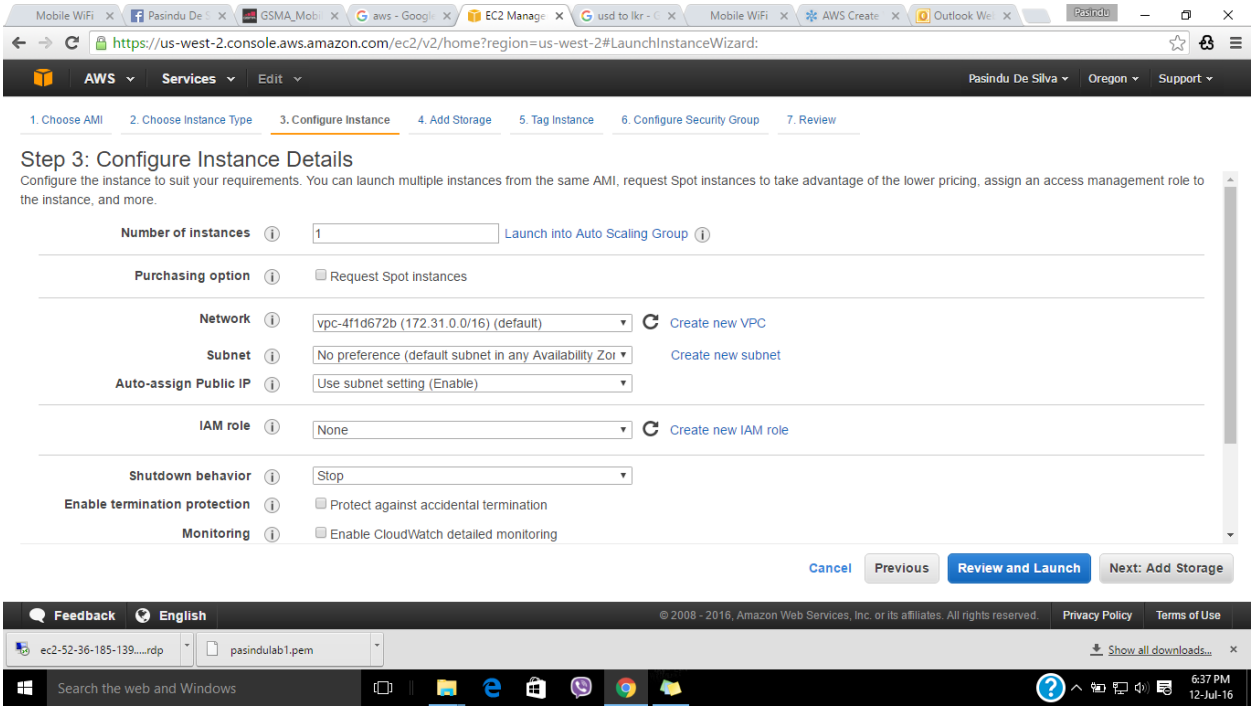
1. Choose an Amazon Machine image (AMI) to create a linux instance.



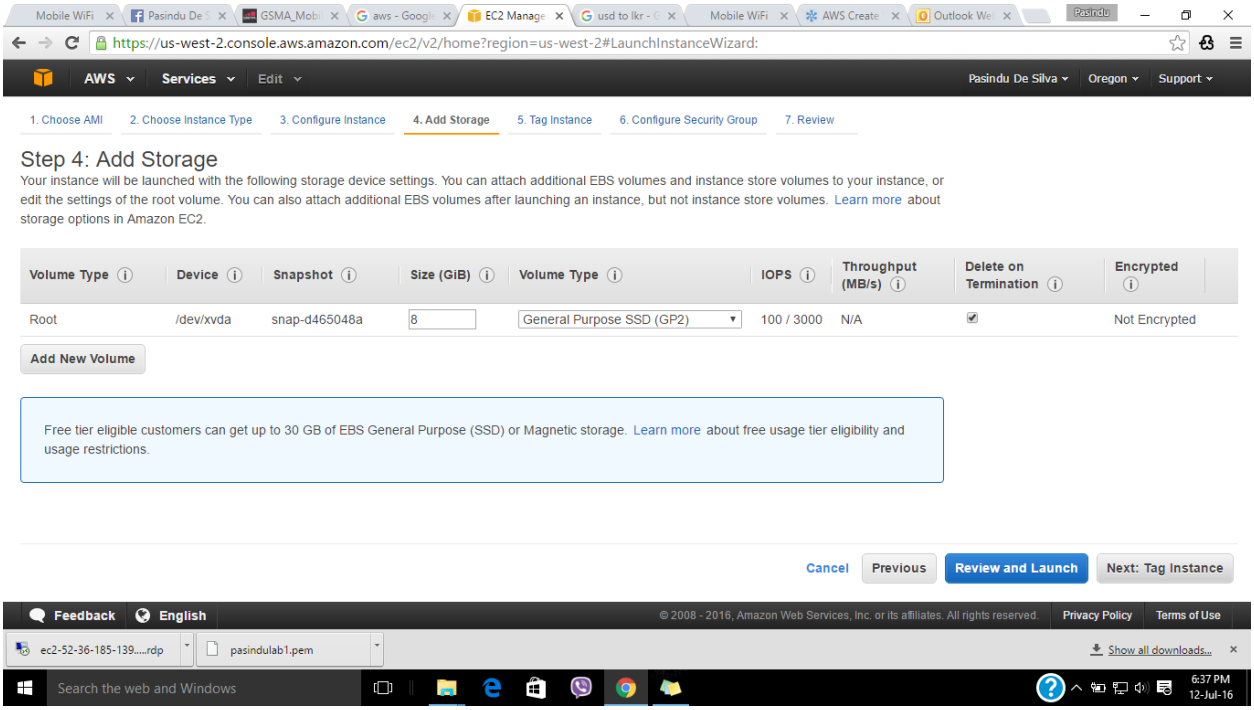
2. Choose an instance type for the linux.

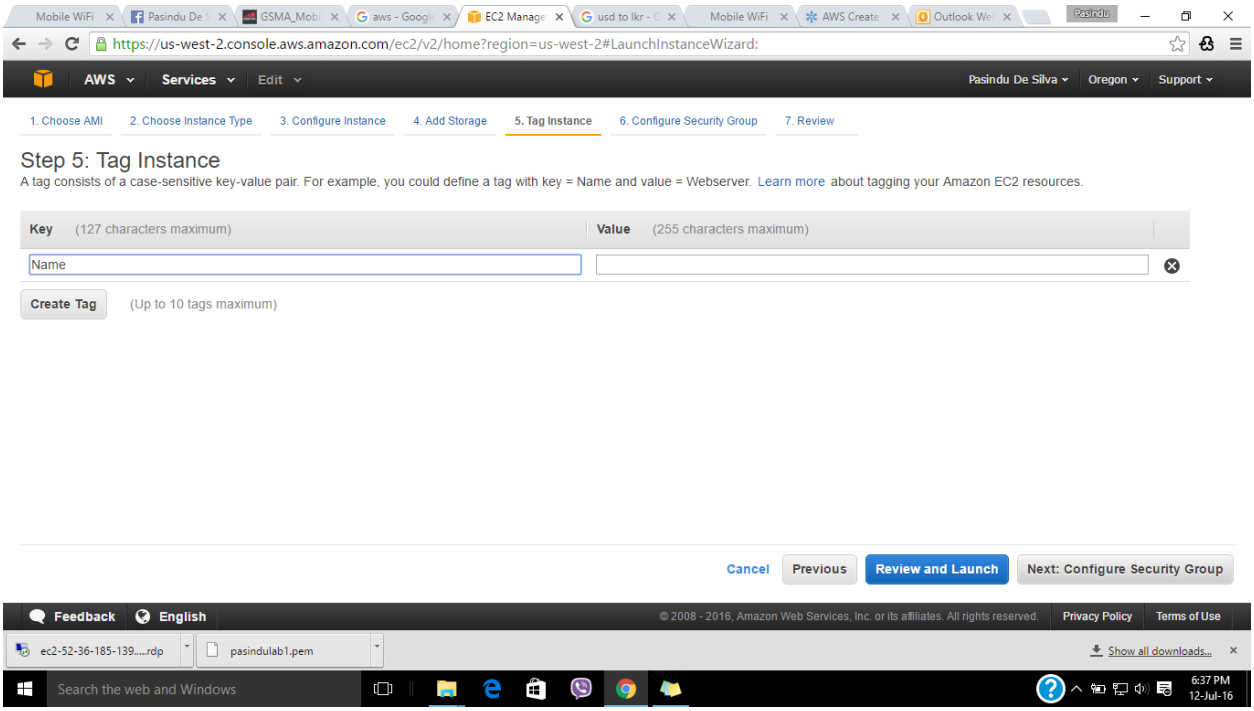


3. Configure instance details.

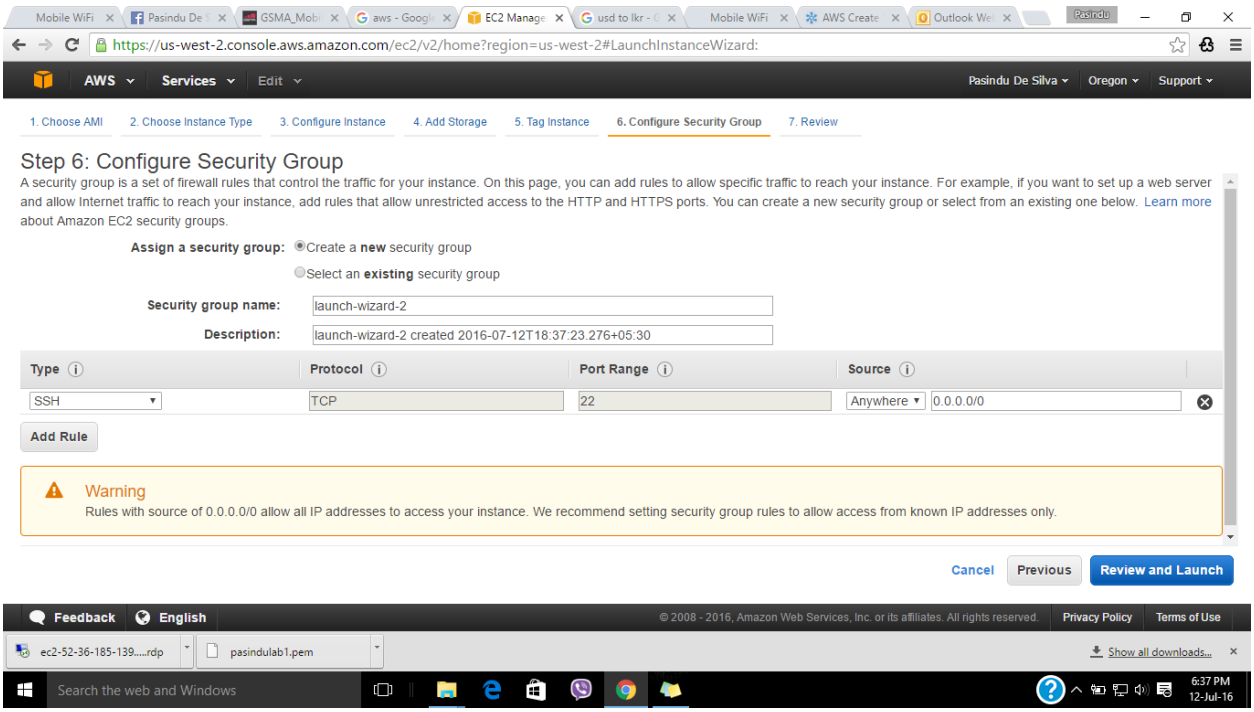


4. Add storage. We can attach additional ESB volumes and instance store volumes to your instance, or edit the settings of the root volume.

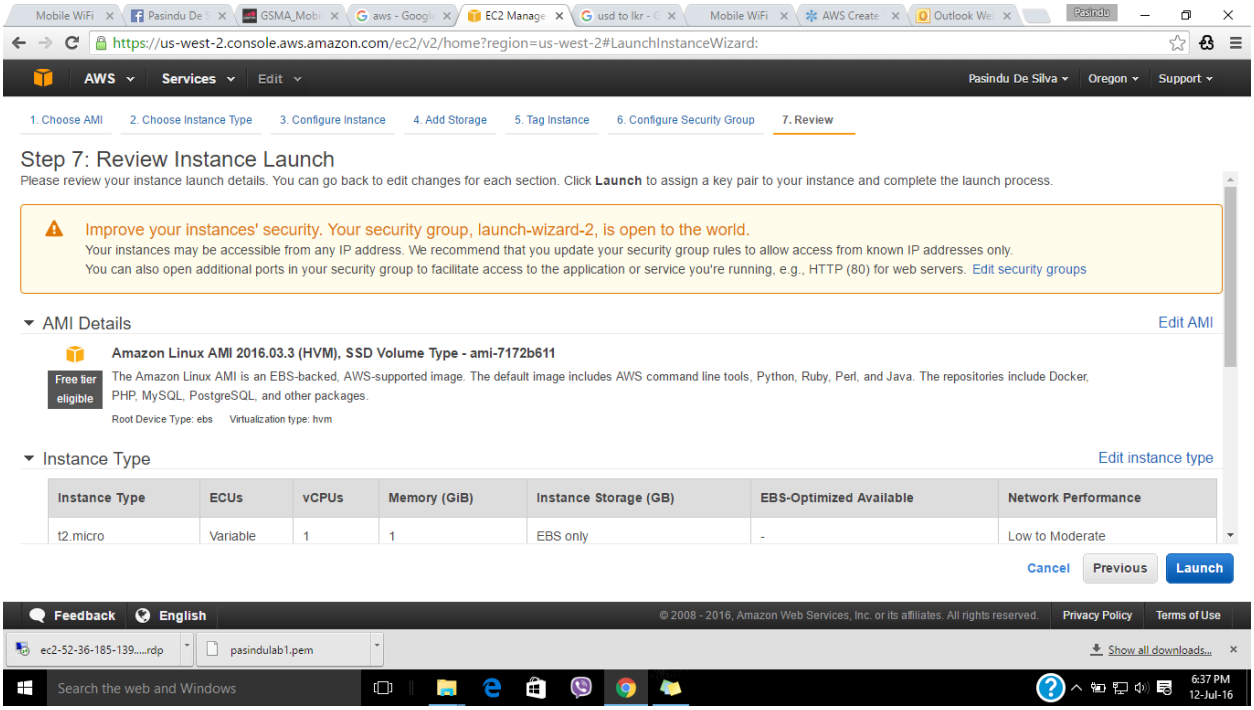




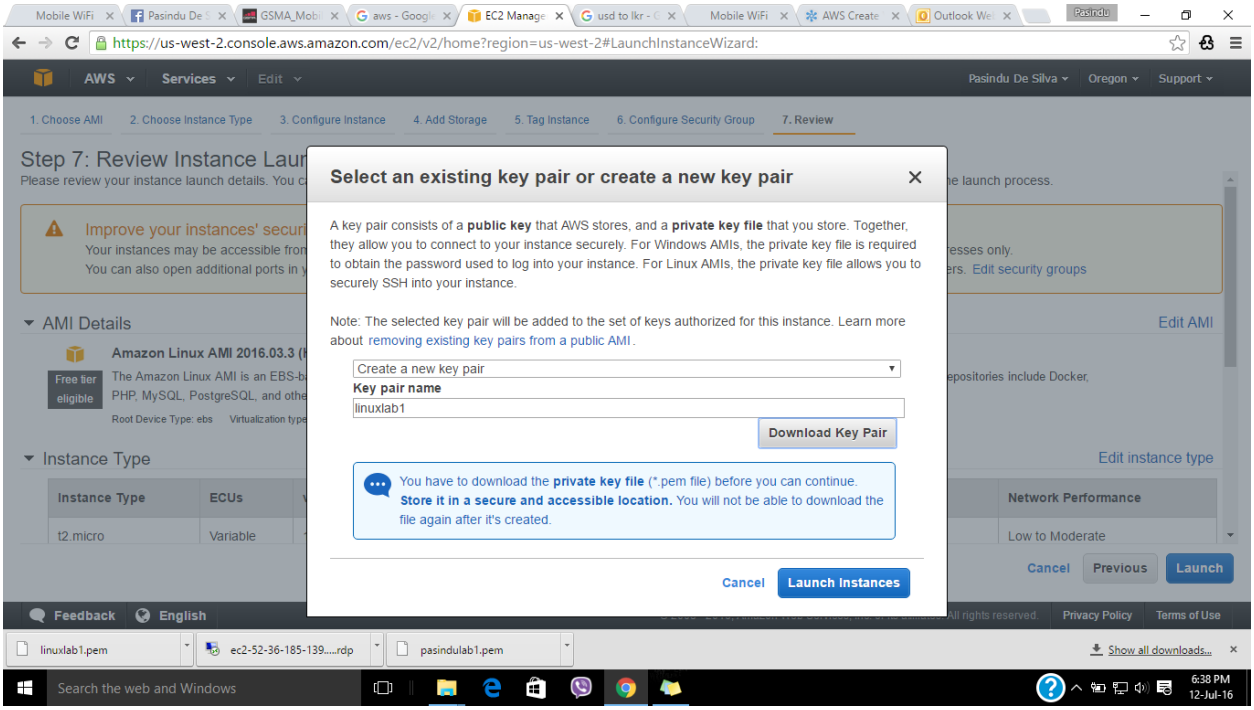
5. Configure the security group. It is a set of firewall rules that control the traffic for your instance. We can add rules to allow specific traffic to reach your instance.

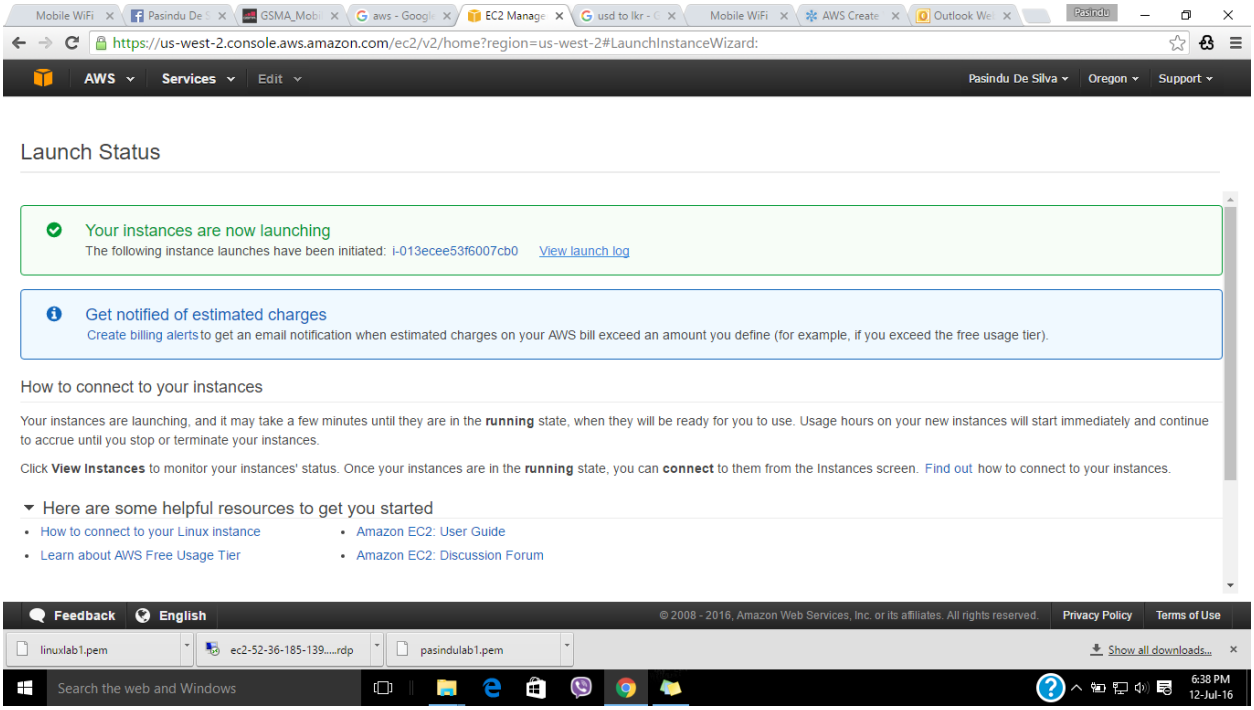


6. Then review instance launch



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




https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:
AWS
Services
Edit
Pasindu De Silva
Oregon
Support
Launch Status
Your instances are now launching
The following instance launches have been initiated: i-013ecee53f6007cb0
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
Feedback
English
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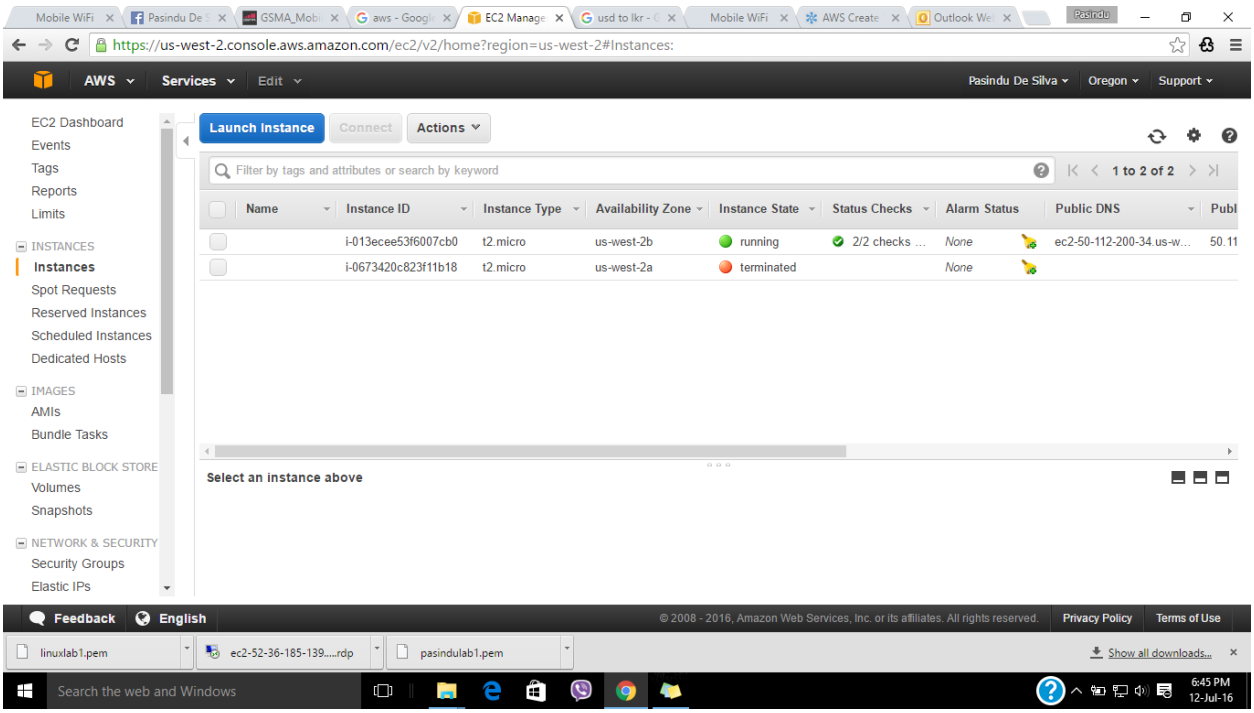
Privacy Policy
Terms of Use
linuxlab1.pem
ec2-52-36-185-139.....rdp
pasindulab1.pem
Show all downloads...
Search the web and Windows
6:38 PM
12-Jul-16


https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:
AWS
Services
Edit
Pasindu De Silva
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
Launch Instance
Connect
Actions
Filter by tags and attributes or search by keyword
1 to 2 of 2
Name
Instance ID
Instance Type
Availability Zone
Instance State
Status Checks
Alarm Status
Public DNS
Publ
i-013ecee53f6007cb0
t2.micro
us-west-2b
running
2/2 checks ...
None
ec2-50-112-200-34.us-w...
50.11
i-0673420c823f11b18
t2.micro
us-west-2a
terminated
None
Select an instance above
Feedback
English
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linuxlab1.pem
ec2-52-36-185-139.....rdp
pasindulab1.pem
Show all downloads...
Search the web and Windows
6:45 PM
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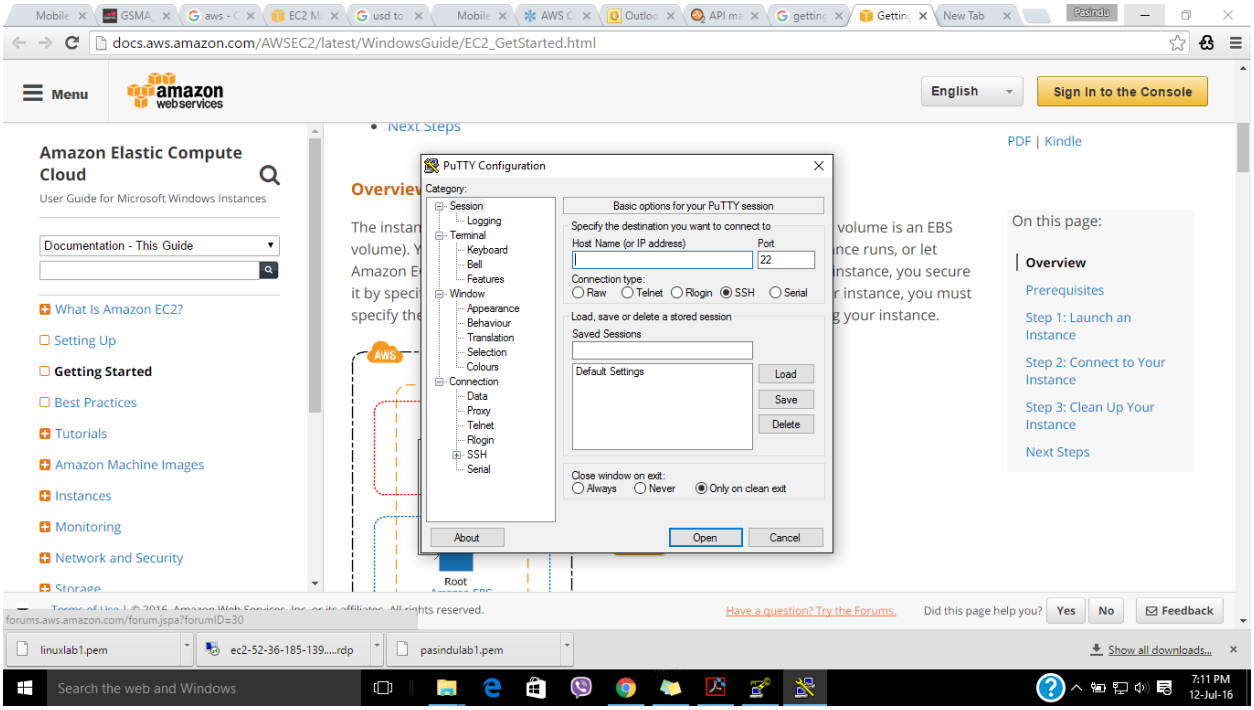
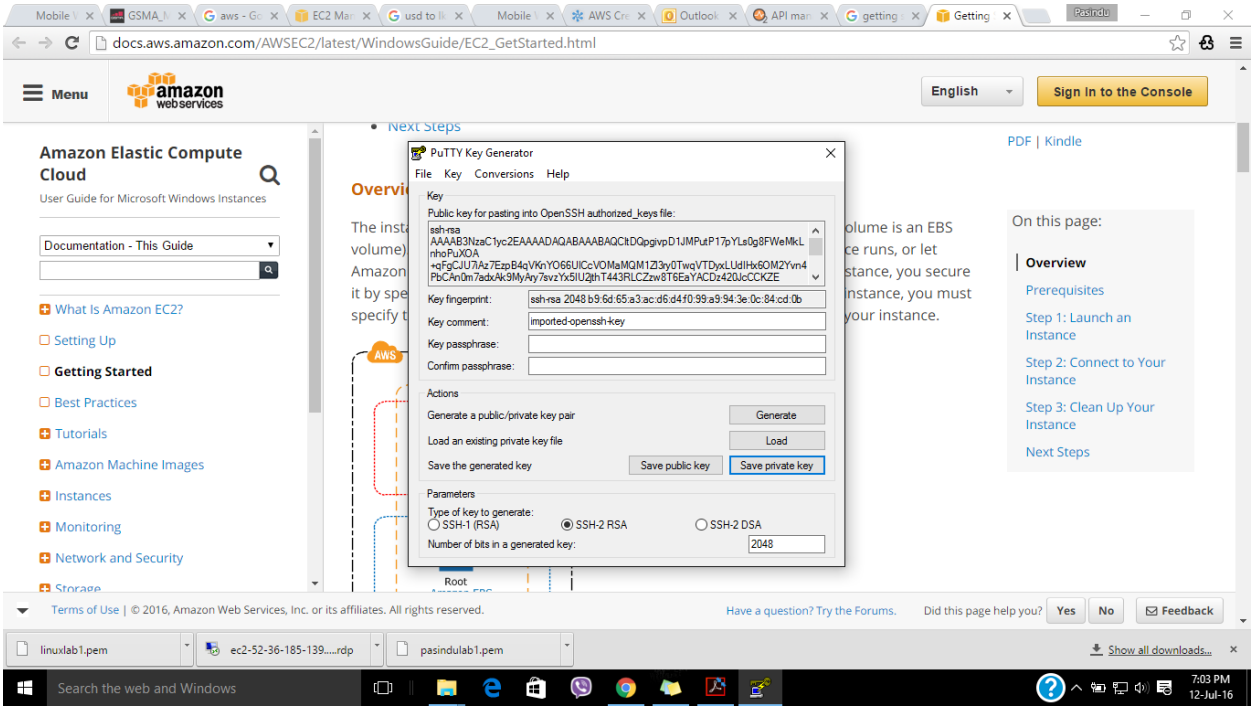
8. Download putty.exe and puttyGen.exe.
   To download :- http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html

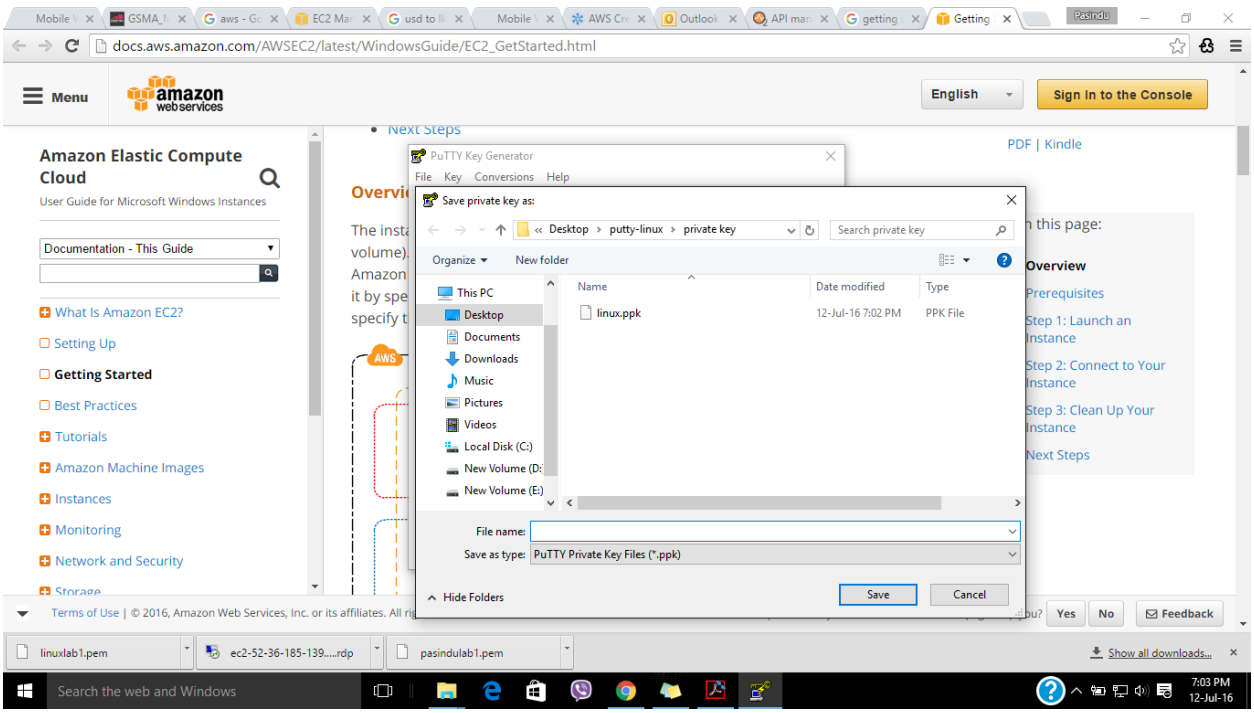
9. Run the putty key

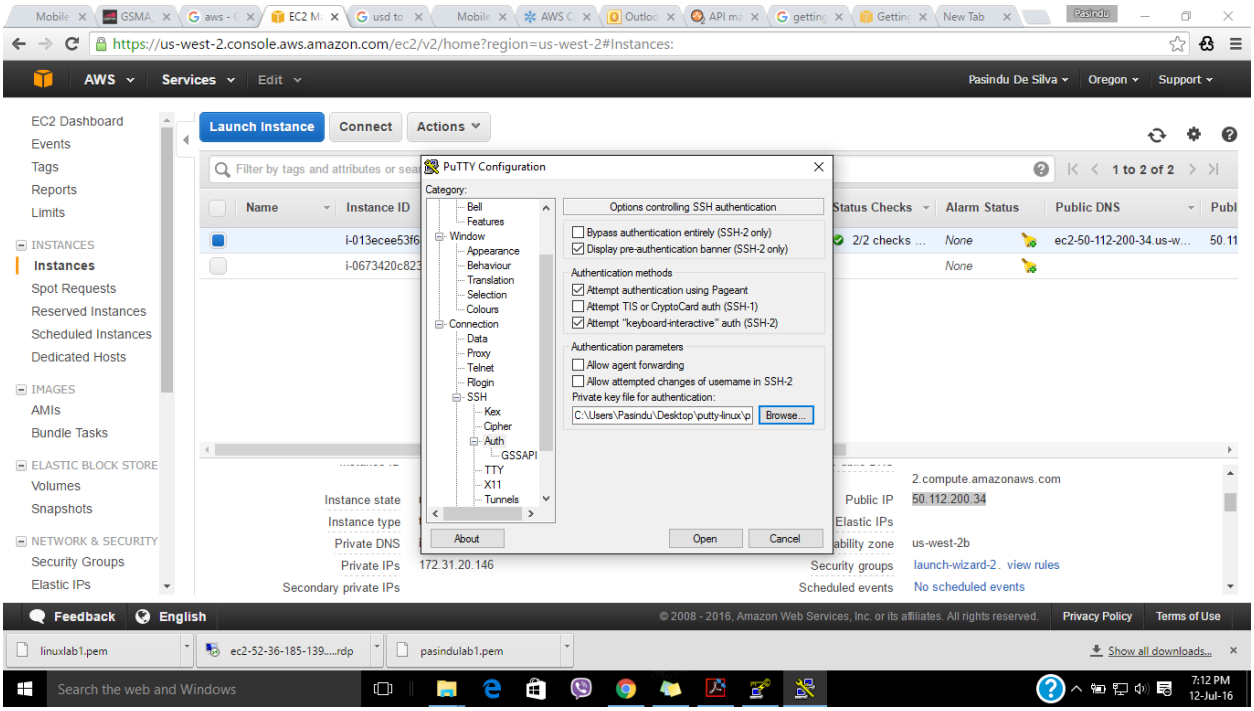


10. Add the key value

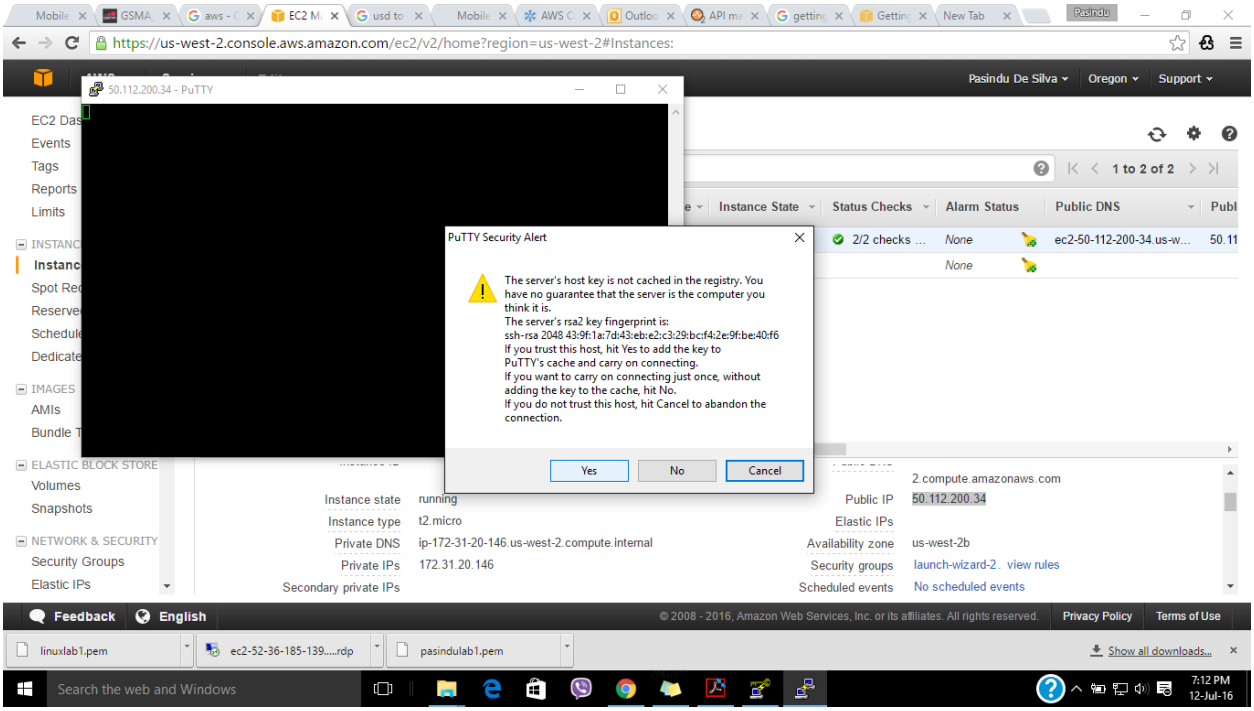


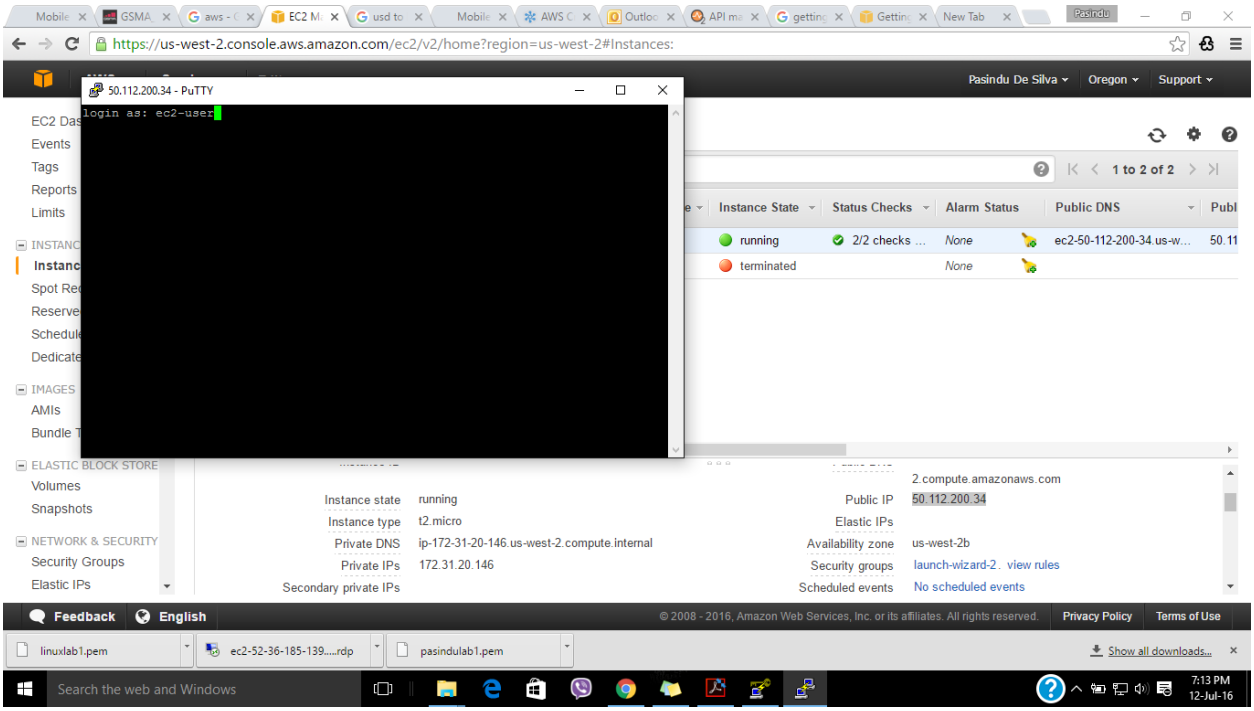
11. Create a file which is called .ppk files.





12. Connecting to the linux instance




50.112.200.34 - PuTTY
login as: ec2-user
https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:
Pasindu De Silva
Oregon
Support
Instance State
Status Checks
Alarm Status
Public DNS
running
2/2 checks ...
None
ec2-50-112-200-34.us-w...
terminated
None
Instance state running
Instance type t2.micro
Private DNS ip-172-31-20-146.us-west-2.compute.internal
Private IPs 172.31.20.146
Public IP 50.112.200.34
Availability zone us-west-2b
Security groups launch-wizard-2. view rules
Scheduled events No scheduled events
Feedback
English
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ec2-52-36-185-139.....rdp
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7:13 PM
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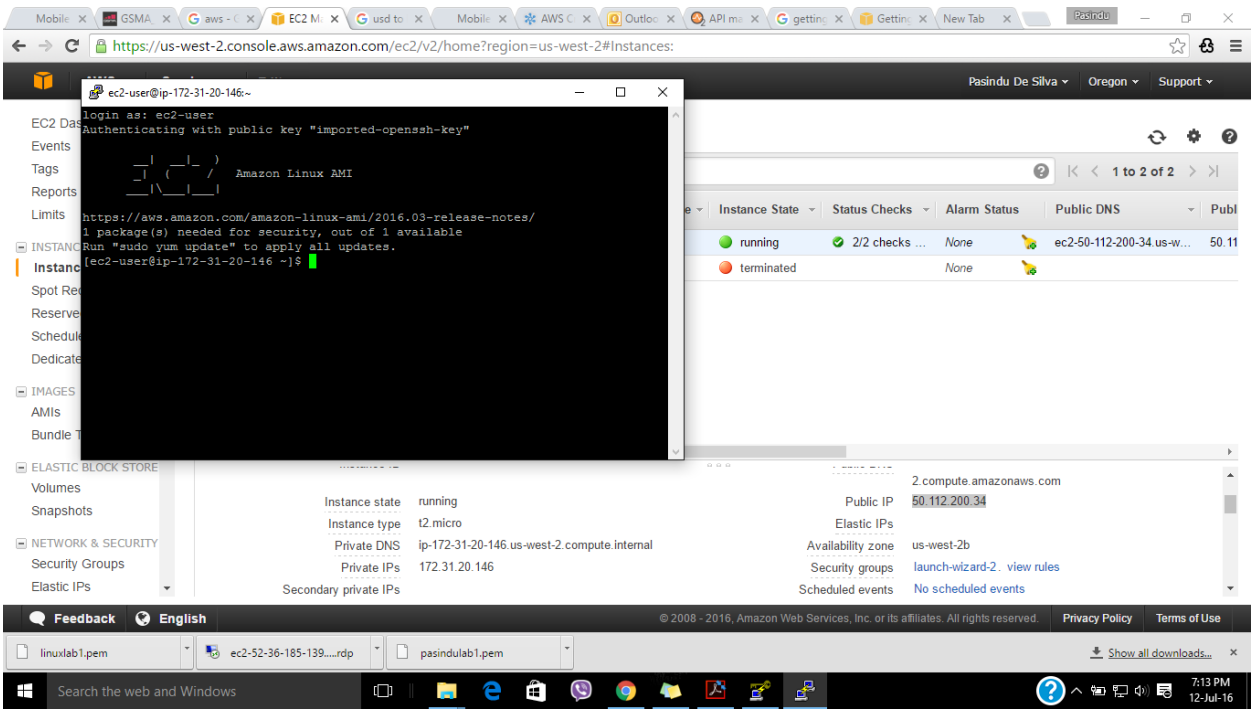
ec2-user@ip-172-31-20-146:~
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Amazon Linux AMI
https://aws.amazon.com/amazon-linux-ami/2016.03-release-notes/
1 package(s) needed for security, out of 1 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-20-146 ~]$
https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:
Pasindu De Silva
Oregon
Support
Instance State
Status Checks
Alarm Status
Public DNS
running
2/2 checks ...
None
ec2-50-112-200-34.us-w...
terminated
None
Instance state running
Instance type t2.micro
Private DNS ip-172-31-20-146.us-west-2.compute.internal
Private IPs 172.31.20.146
Public IP 50.112.200.34
Availability zone us-west-2b
Security groups launch-wizard-2. view rules
Scheduled events No scheduled events
Feedback
English
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ec2-52-36-185-139.....rdp
pasindulab1.pem
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