



SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

4th Year 2nd Semester 2014

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Practical Session: WD

Practical Number : lab-2

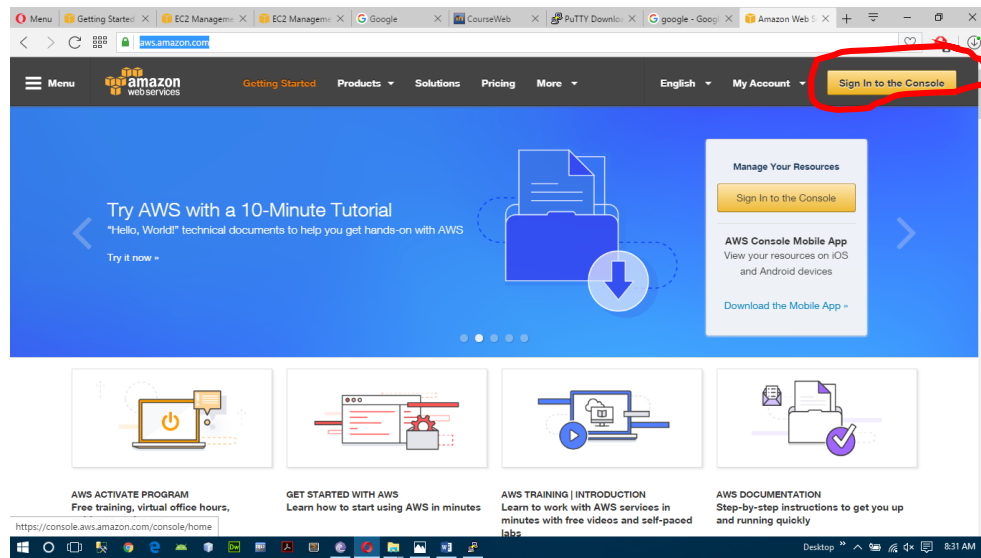
Date of Submission: 30-07-2016

Date of Evaluation : _____

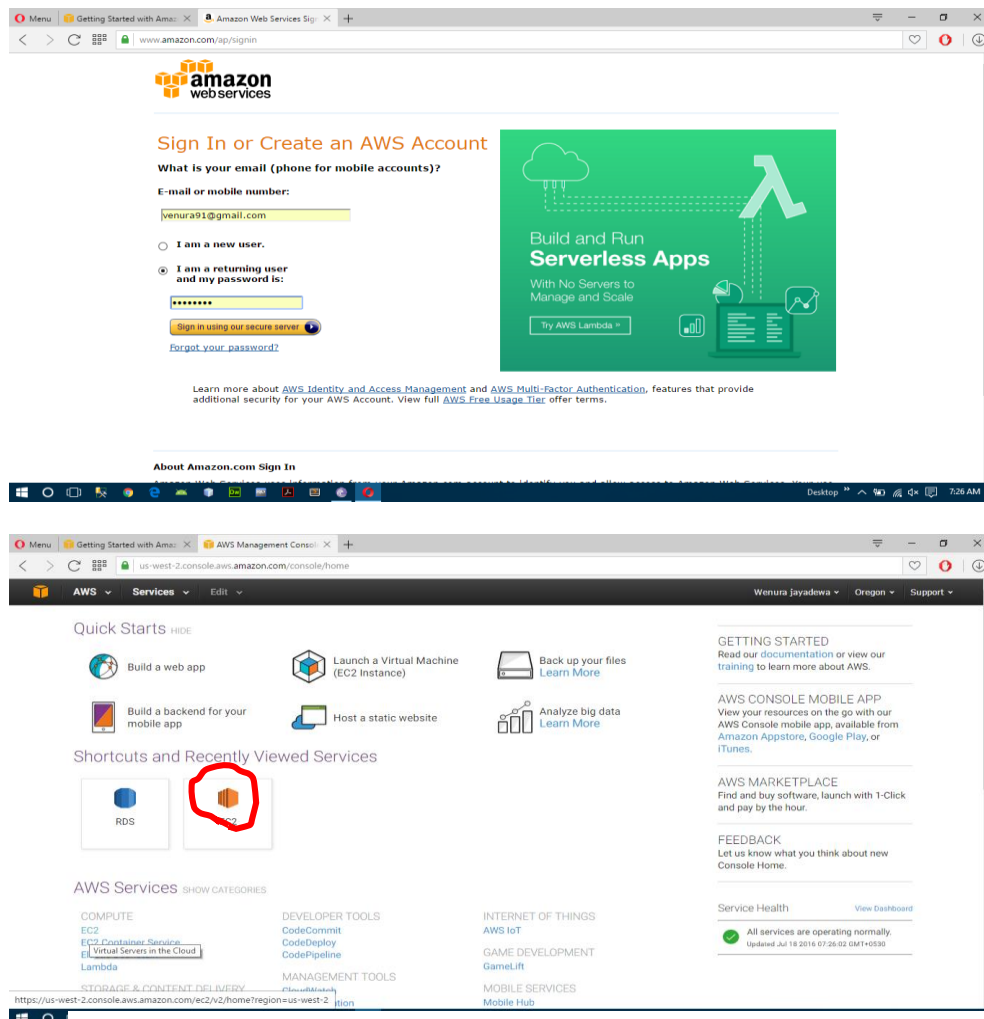
Evaluators Signature : _____

- **Create Amazon EC2 Linux Instances**

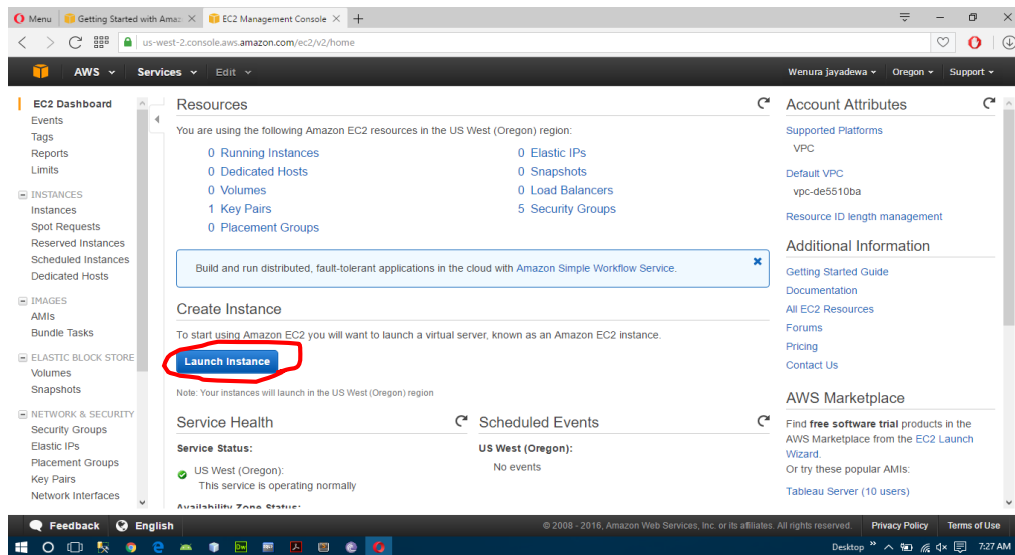
1. When create windows instance ,very first we want to create amazon account, it can do it below link,
<https://aws.amazon.com>.



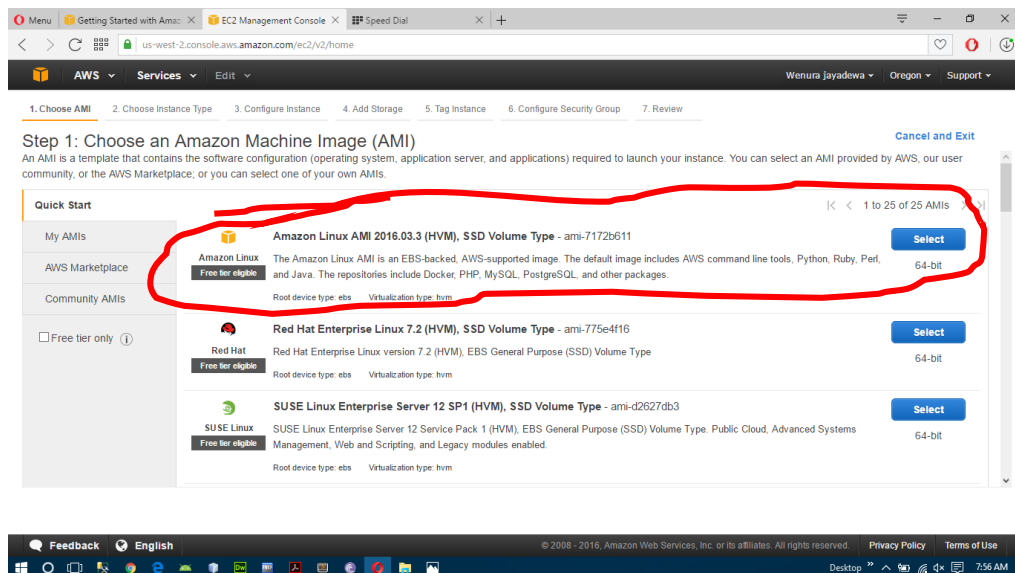
2. After creating the account log into the account and Open the Amazon EC2 console at <https://console.aws.amazon.com/ec2/>



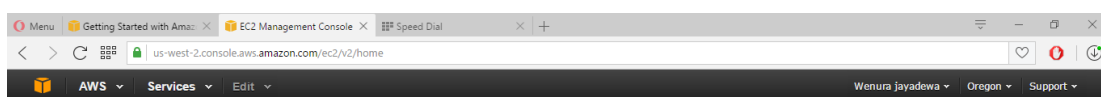
3. Then click the launch instance button



4. Choose the machine image



5. Select the instance type and click the configure instance details button



6. Configure the instance details and click the add storage

The screenshot shows the AWS Management Console interface for configuring an EC2 instance. The browser address bar shows the URL `us-west-2.console.aws.amazon.com/ec2/v2/home`. The console header includes the AWS logo, navigation menus, and user information for 'Wenura Jayadewa' in the 'Oregon' region. The breadcrumb trail indicates the current step: '1. Choose AMI', '2. Choose Instance Type', '3. Configure Instance', '4. Add Storage', '5. Tag Instance', '6. Configure Security Group', and '7. Review'. The main heading is 'Step 3: Configure Instance Details', followed by a brief instruction: '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.'

The configuration form includes the following sections:

- Number of Instances:** A text input field containing '1' and a link 'Launch into Auto Scaling Group'.
- Purchasing option:** A checkbox labeled 'Request Spot instances' which is currently unchecked.
- Network:** A dropdown menu showing 'vpc-de5510ba (172.31.0.0/16) (default)' with a 'Create new VPC' link.
- Subnet:** A dropdown menu showing 'No preference (default subnet in any Availability Zone)' with a 'Create new subnet' link.
- Auto-assign Public IP:** A dropdown menu showing 'Use subnet setting (Enable)'.
- IAM role:** A dropdown menu showing 'None' with a 'Create new IAM role' link.
- Shutdown behavior:** A dropdown menu showing 'Stop'.
- Enable termination protection:** A checkbox labeled 'Protect against accidental termination' which is unchecked.
- Monitoring:** A checkbox labeled 'Enable CloudWatch detailed monitoring' which is unchecked, with a note 'Additional charges apply'.
- Tenancy:** A dropdown menu showing 'Shared - Run a shared hardware instance'.

At the bottom of the form are four buttons: 'Cancel', 'Previous', 'Review and Launch' (highlighted in blue), and 'Next: Add Storage'.

7. Add the storage capacity to the instance and click the Review and launch button

The screenshot shows the AWS Management Console interface for the 'Step 4: Add Storage' page. The browser address bar shows the URL `us-west-2.console.aws.amazon.com/ec2/v2/home`. The console header is identical to the previous screenshot. The breadcrumb trail is updated to: '1. Choose AMI', '2. Choose Instance Type', '3. Configure Instance', '4. Add Storage', '5. Tag Instance', '6. Configure Security Group', and '7. Review'. The main heading is 'Step 4: Add Storage'.

8. Finally review the instance we created

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

Improve your instances' security. Your security group, **launch-wizard-5**, is open to the world.
Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only.
You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

AMI Details [Edit AMI](#)
Amazon Linux AMI 2016.03.3 (HVM), SSD Volume Type - ami-7172b611
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

Security Groups [Edit security groups](#)

Security group name launch-wizard-5
Description launch-wizard-5 created 2016-07-18T07:57:09.562+05:30

Type	Protocol	Port Range	Source
SSH	TCP	22	0.0.0.0/0

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

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

Define key pair and launch

Feedback English © 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use Desktop 7:57 AM

9. When login into our instance. we need the password ,in pair key windows create the key and user name , Select the create the new key pair and put the name into the key ,and download the key pair .

10. Within windows operating system can't connect linux with directly ,so need same software, putty is connecting application.it can download it below link

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

The latest release version (beta 0.67)

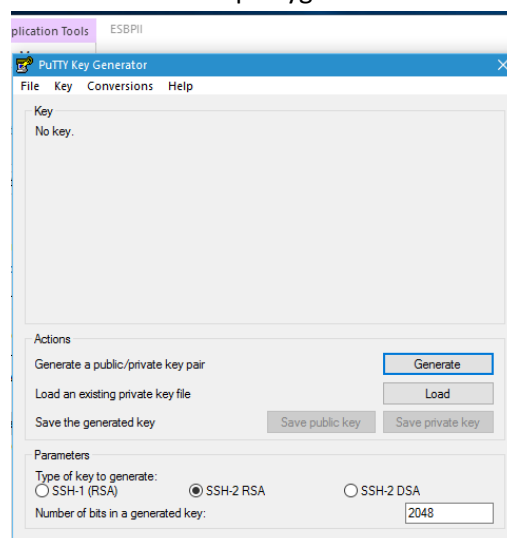
This will generally be a version we think is reasonably likely to work well. If you have a problem with it, please report it, but please check first that you haven't already fixed the bug, before reporting it.

For Windows on Intel x86

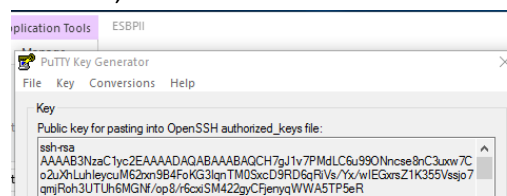
PuTTY:	putty.exe	(or by FTP)	(signature)
PuTTYtel:	puttytel.exe	(or by FTP)	(signature)
PSCP:	pscp.exe	(or by FTP)	(signature)
PSFTP:	psftp.exe	(or by FTP)	(signature)
Plink:	plink.exe	(or by FTP)	(signature)
Pageant:	pageant.exe	(or by FTP)	(signature)
PuTTYgen:	puttygen.exe	(or by FTP)	(signature)

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

11. To decrypt the key need other software call puttygen .
12. After downloading that 2 software first run the puttygen.exe



13. Click the conversion tab and click the import key then open brows select the download key pair file and click ok button ,the windows show like below,



-
- The screenshot shows the AWS Management Console with the 'Putty Configuration' dialog box open. A red arrow points from the 'Public IP' field in the instance details table to the 'Public IP' field in the 'Putty Configuration' dialog box. The 'Public IP' field in the dialog box is highlighted with a red circle.

-
- PuTTY Configuration**
- Category:
- Features
 - Window
 - Appearance
 - Behaviour
 - Translation
 - Selection
 - Colours
 - Connection
 - Data
 - Proxy
 - Telnet
 - Rlogin
 - SSH
 - Kex
 - Cipher
 - Auth
 - TTY
 - X11
 - Tunnels
 - Bugs
 - More bugs
 - Serial
- Options controlling SSH authentication
- ☒ Bypass authentication entirely (SSH-2 only)
 - ☒ Display pre-authentication banner (SSH-2 only)
- Authentication methods
- ☒ Attempt authentication using Pageant
 - ☒ Attempt TIS or CryptoCard auth (SSH-1)
 - ☒ Attempt "keyboard-interactive" auth (SSH-2)
- Authentication parameters
- ☐ Allow agent forwarding
 - ☐ Allow attempted changes of username in SSH-2
- Private key file for authentication:
- D:\4thyear\ESBP\Nab\LinuxKey.ppk
- Buttons: About, Open, Cancel

- ```
ec2-user@ip-172-31-36-45:~
login as:
login as: ec2-user
Authenticating with public key "imported-openssh-key"

 _| _|_)
 _| (/
 ||_|
Amazon Linux AMI
```

18. Provide `login as :ec2-user` .