



AWS LINUX

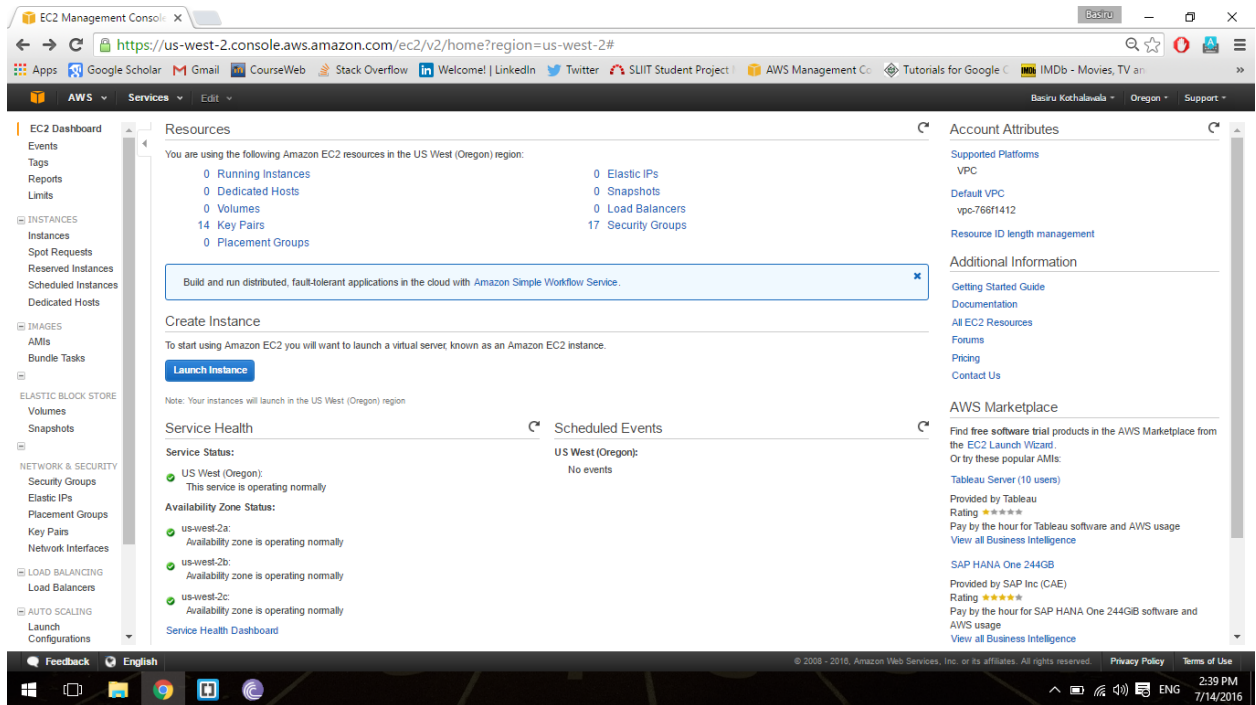
ESBII

4th Year
Lab - 02

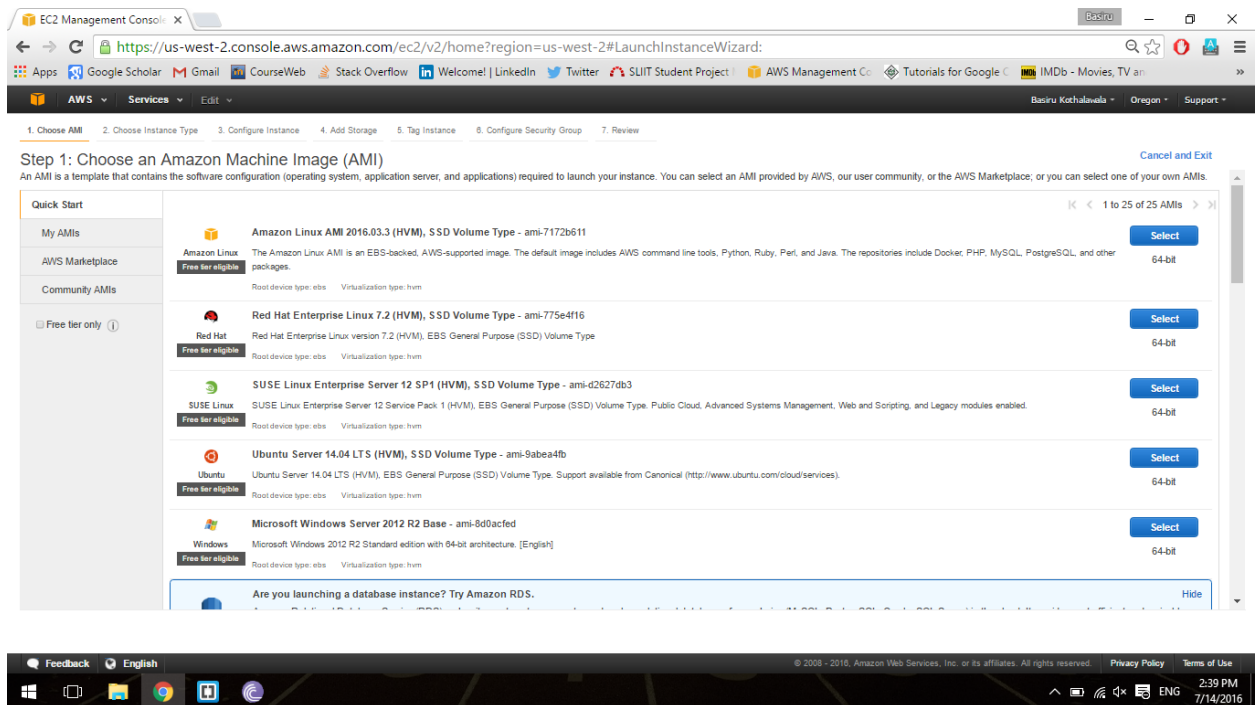
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IT13114336

Amazon EC2 Linux Instances

1. Creating an instance
 - a. EC2 Console dashboard → Launch Instance



- b. Selecting an Amazon Machine Image (AMI) → Amazon Linux AMI (Free tier eligible)



c. Choosing an instance type page → t2.micro - Default (Free tier eligible)

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 GB 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
<input type="checkbox"/>	General purpose	m4.xlarge	4	16	EBS only	Yes	High
<input type="checkbox"/>	General purpose	m4.2xlarge	8	32	EBS only	Yes	High
<input type="checkbox"/>	General purpose	m4.4xlarge	16	64	EBS only	Yes	High
<input type="checkbox"/>	General purpose	m4.10xlarge	40	160	EBS only	Yes	10 Gigabit

Cancel Previous **Review and Launch** Next: Configure Instance Details

d. Review instance launch → 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.

Improve your instances' security. Your security group, launch-wizard-17, 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](#)

Red Hat Enterprise Linux 7.2 (HVM), 5 SSD Volume Type - ami-775e4f16
Red Hat Enterprise Linux version 7.2 (HVM), EBS General Purpose (SSD) Volume Type
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](#)

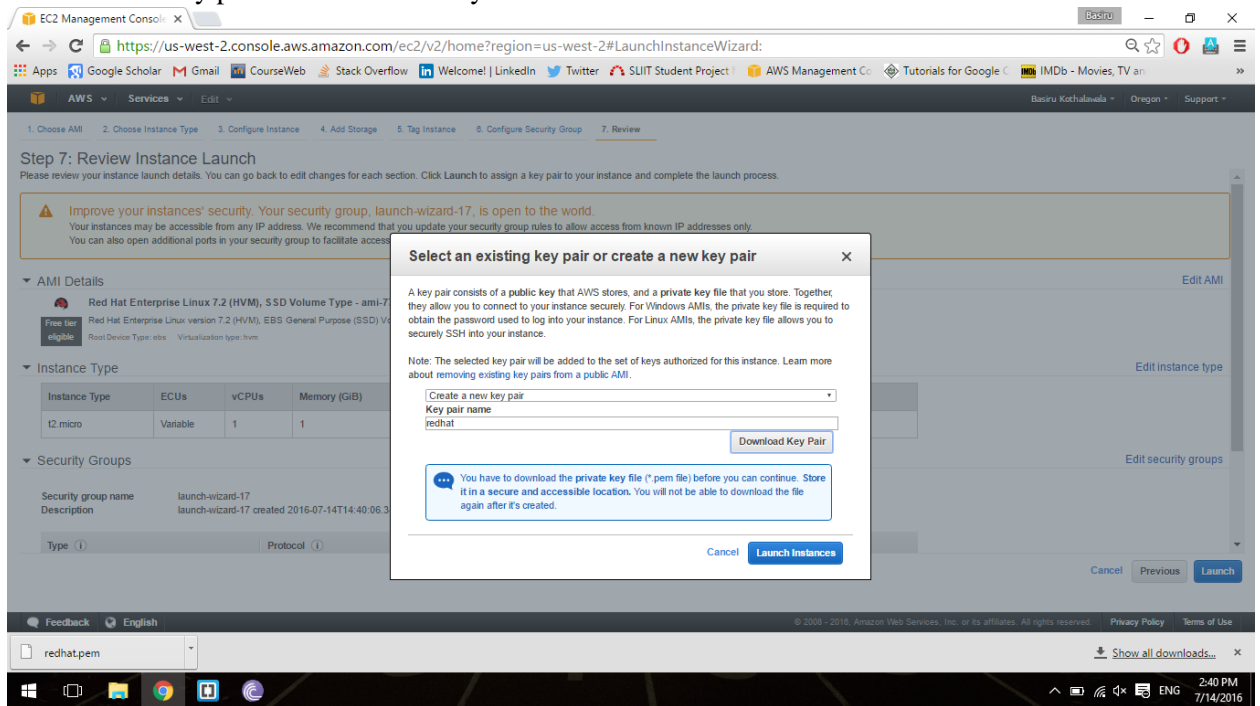
Security group name: launch-wizard-17
Description: launch-wizard-17 created 2016-07-14T14:40:06.347-05:30

Type	Protocol	Port Range	Source
SSH	TCP	22	0.0.0.0/0

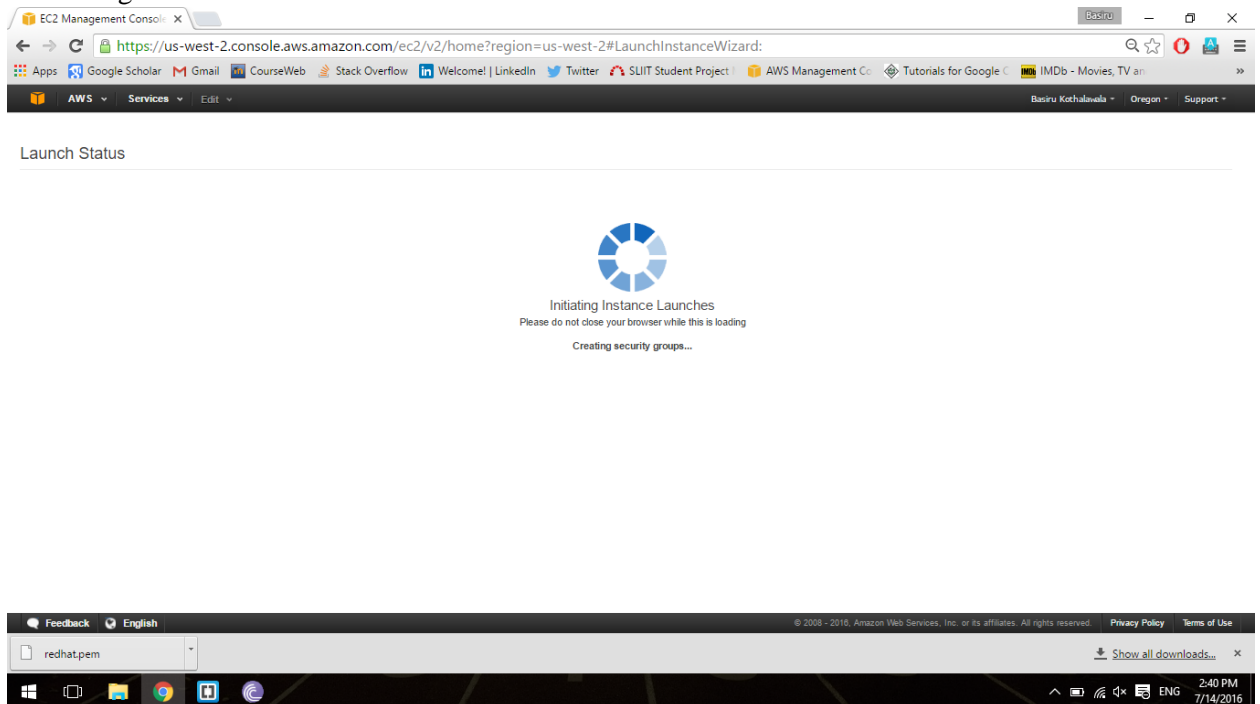
Instance Details [Edit instance details](#)

Cancel Previous **Launch**

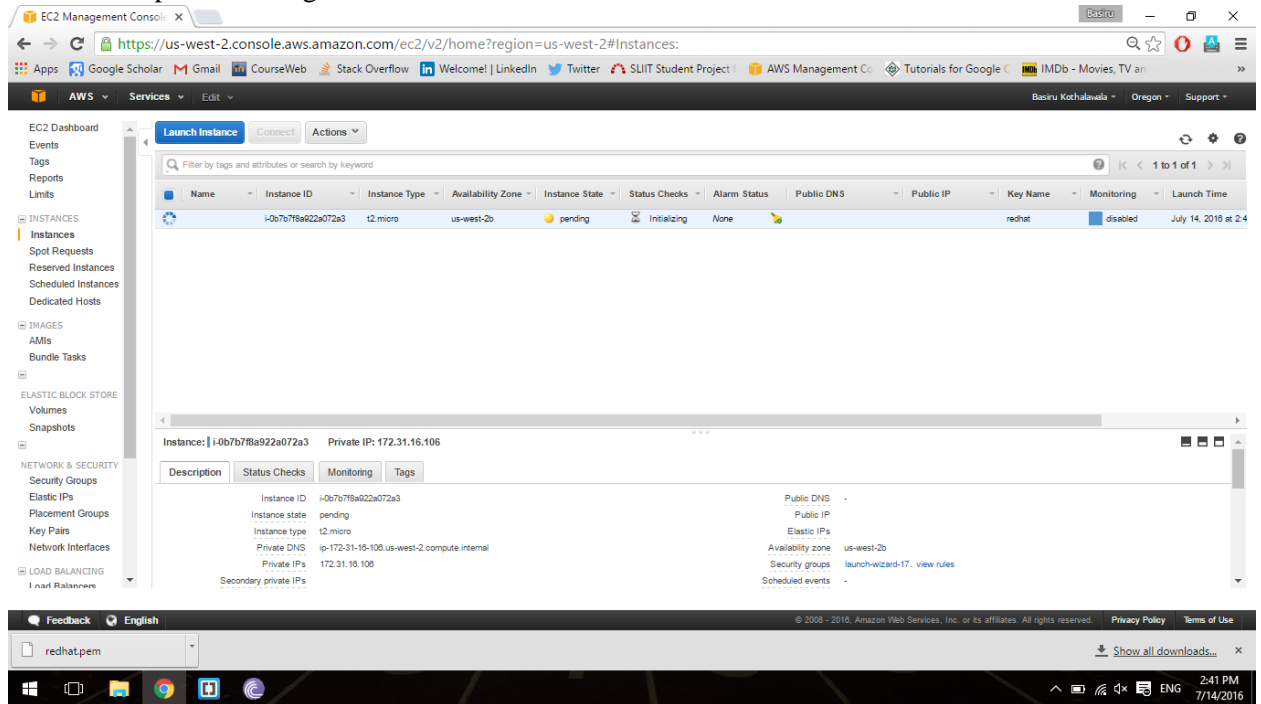
e. Create a new key pair → Download Key Pair



f. Launching Instance

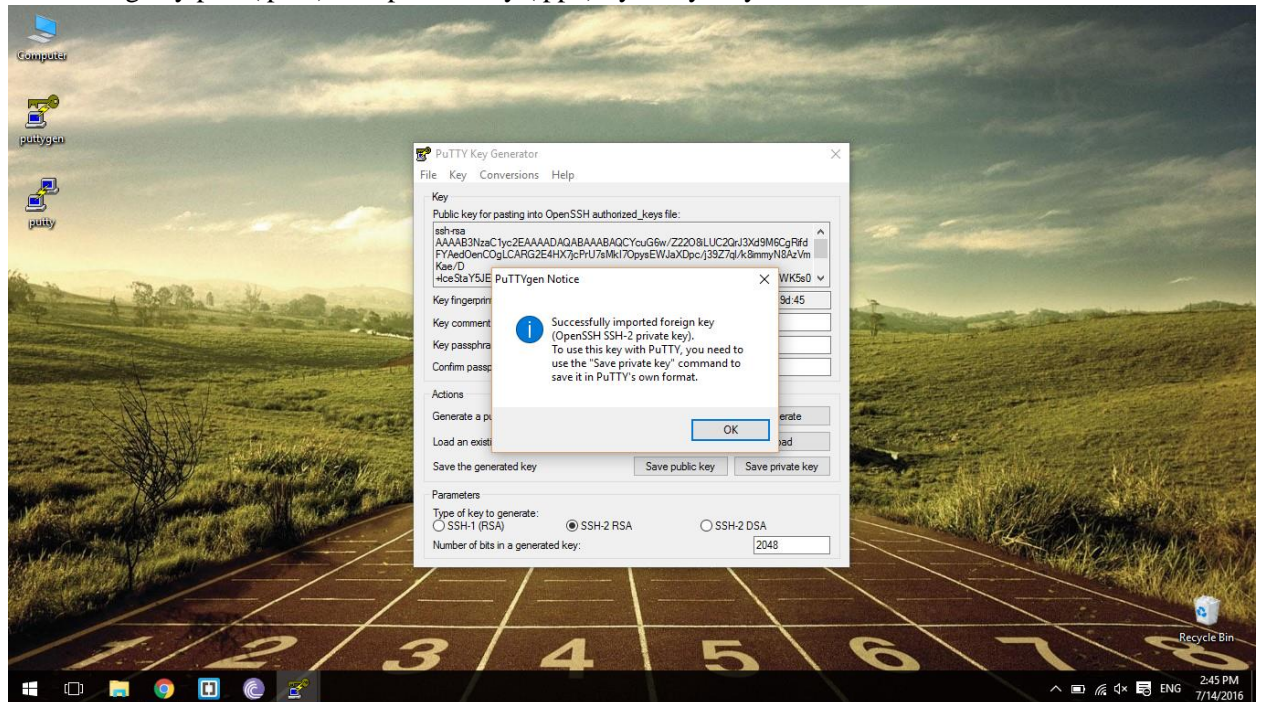


g. Instance is up and running

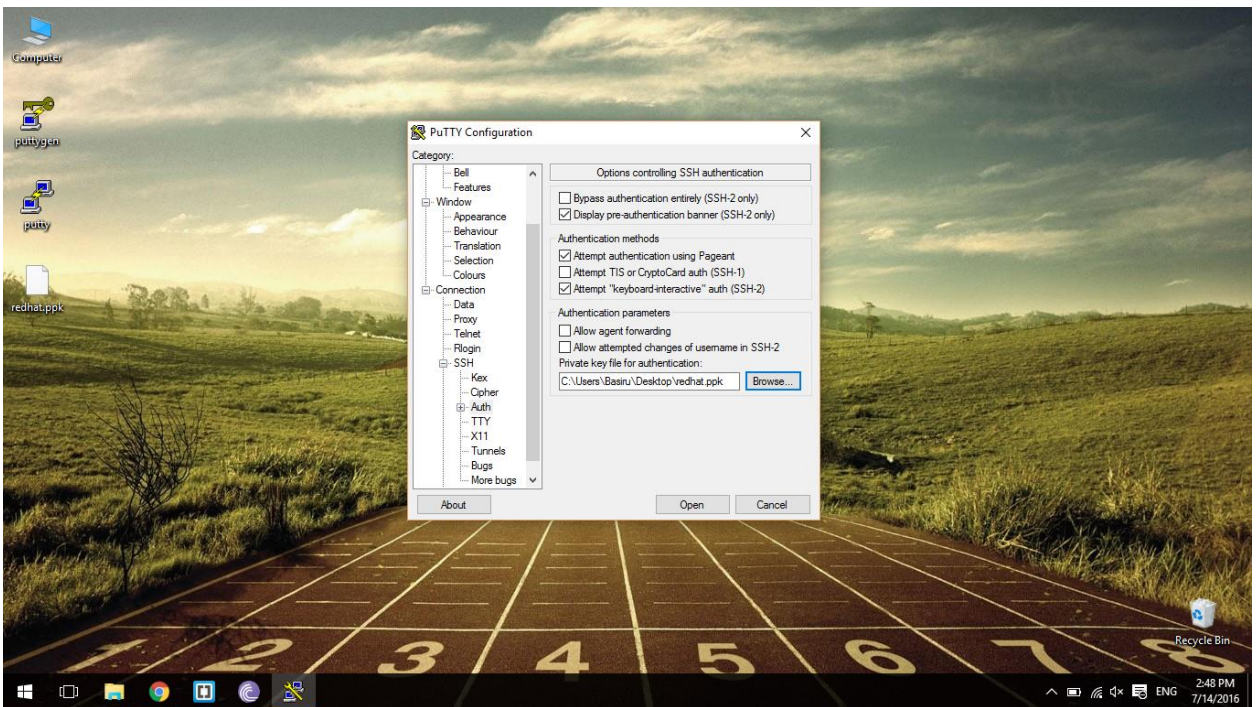
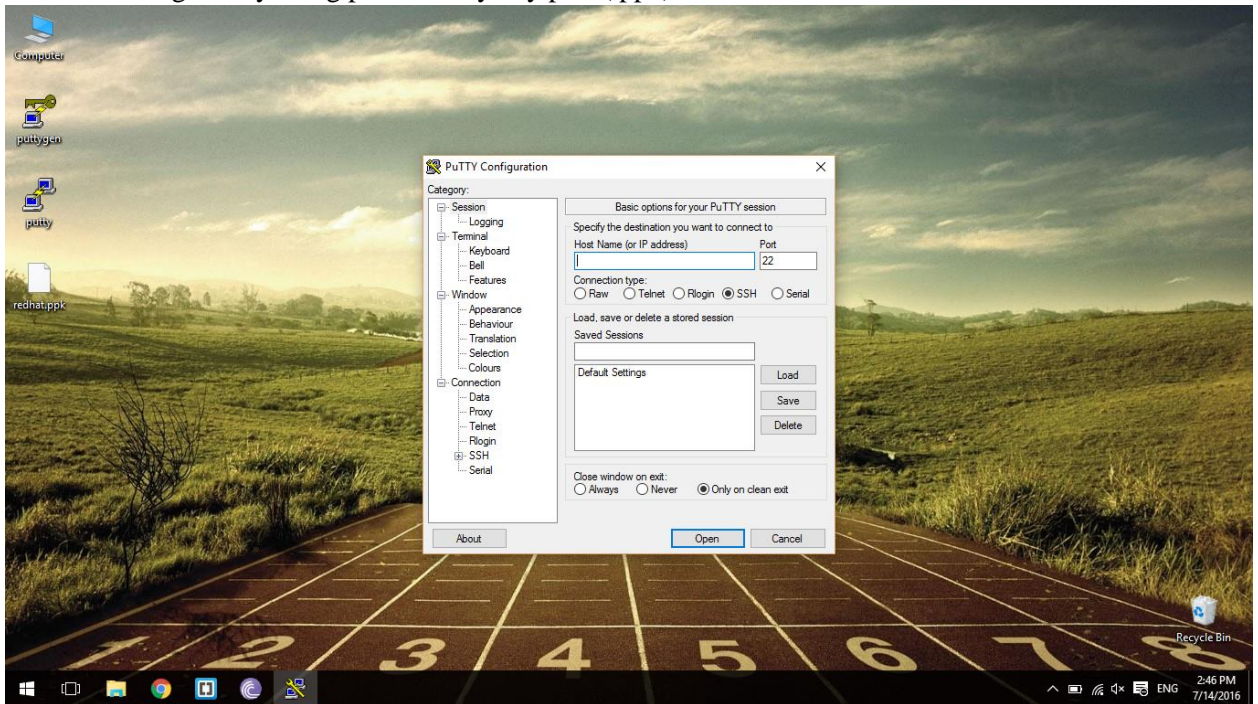


2. Connect to the instance

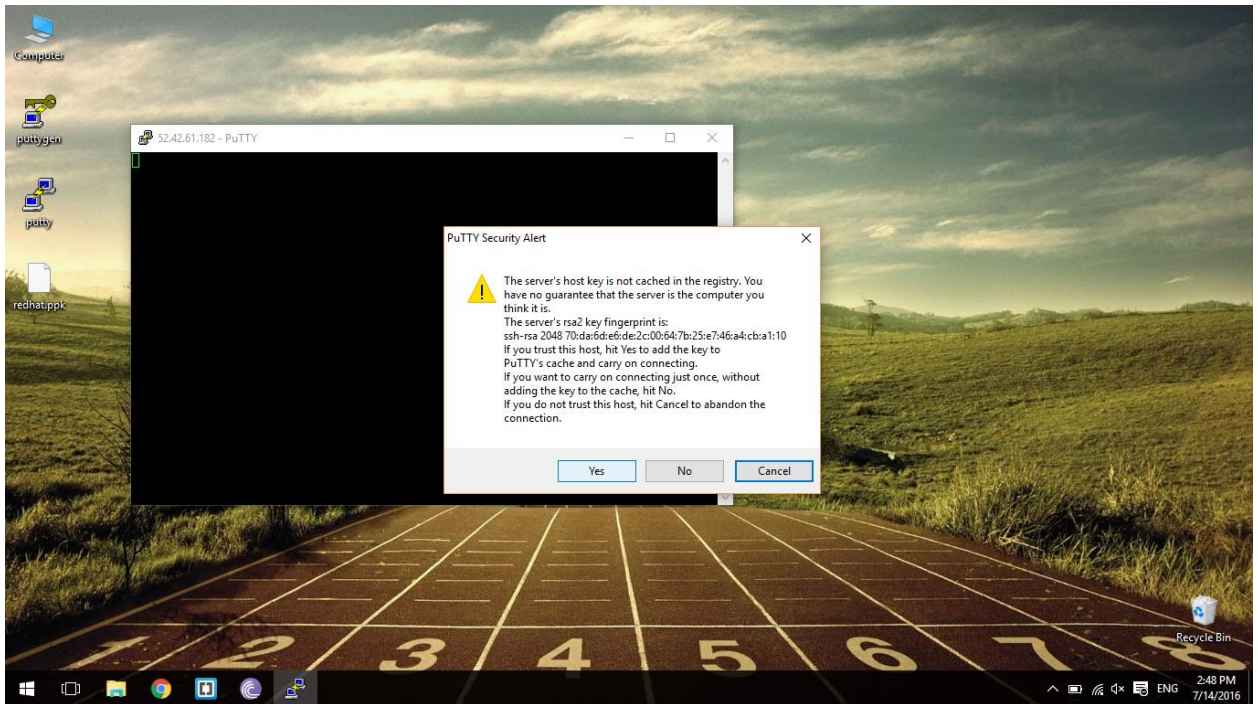
a. Converting key pair (.pem) into private key (.ppk) by Putty Key Generator



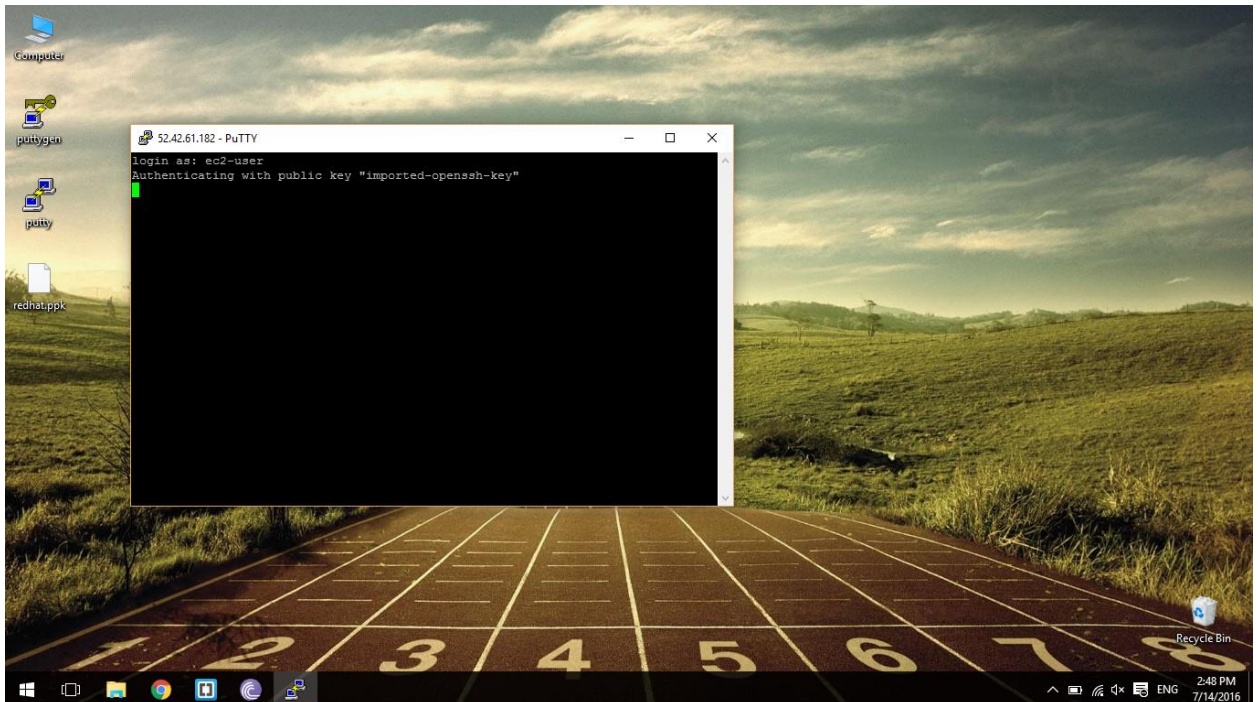
b. Connect through Putty using public IP by key pair (.ppk)



c. **Launch SSH Client**



d. User name = ec2-user → Connected to instance



3. Trying an exercise
 - a. .cpp file

