



SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

4th Year 2nd Semester 2016

Amazon EC2 Windows Instances

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SLIIT ID: IT13121020

Group Number: Group 02

Practical Session: <WD Friday>

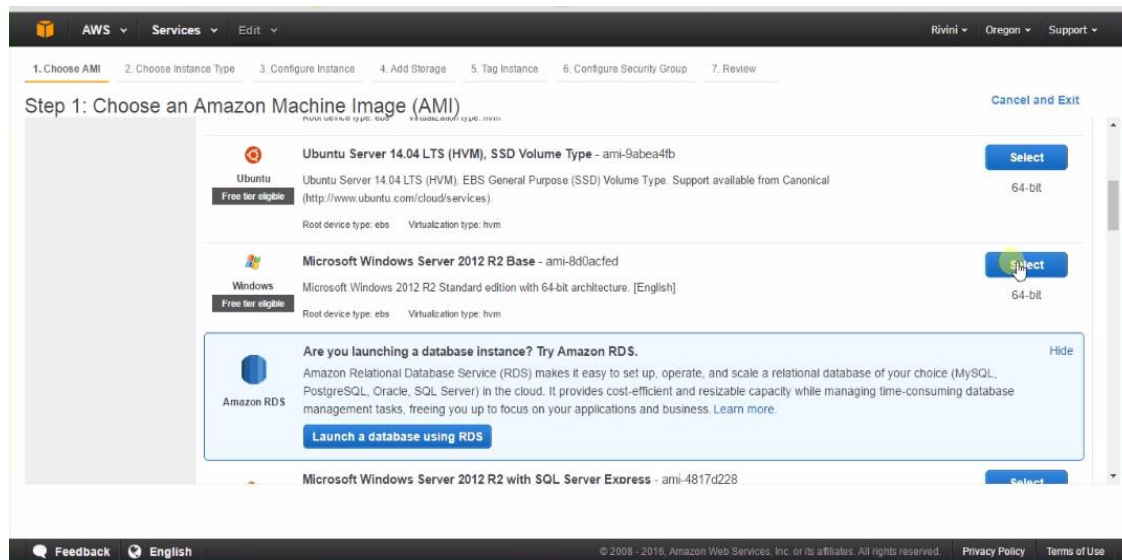
Practical Number : <Lab 2 >

Date of Submission: 14-07-2016

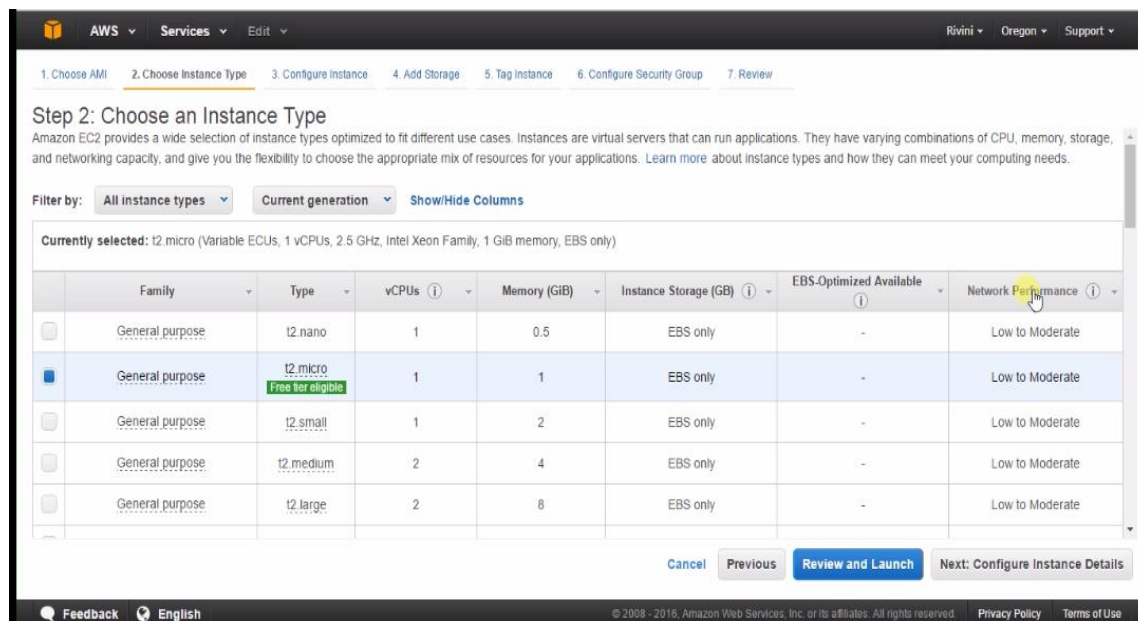
Date of Evaluation : _____

Evaluators Signature : _____

1. Choose an Amazon Machine Image: Microsoft Windows Server



2. Choose an Instance type: General Purpose



3. Choose 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 [Launch into Auto Scaling Group](#) ⓘ

Purchasing option ⓘ ☐ Request Spot Instances

Network ⓘ vpc-4df08e29 (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) [Create new subnet](#)

Domain join directory ⓘ None [Create new directory](#)

IAM role ⓘ None [Create new IAM role](#)

Shutdown behavior ⓘ Stop

Enable termination protection ⓘ ☒ Protect against accidental termination

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)

4. 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](#)

5. 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.

Improve your instances' security. Your security group, launch-wizard-1, 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](#)
Microsoft Windows Server 2012 R2 Base - ami-8d0acfed
Free tier eligible
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 [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

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

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6. Launch instance

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AMI Details [Edit AMI](#)
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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

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

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.

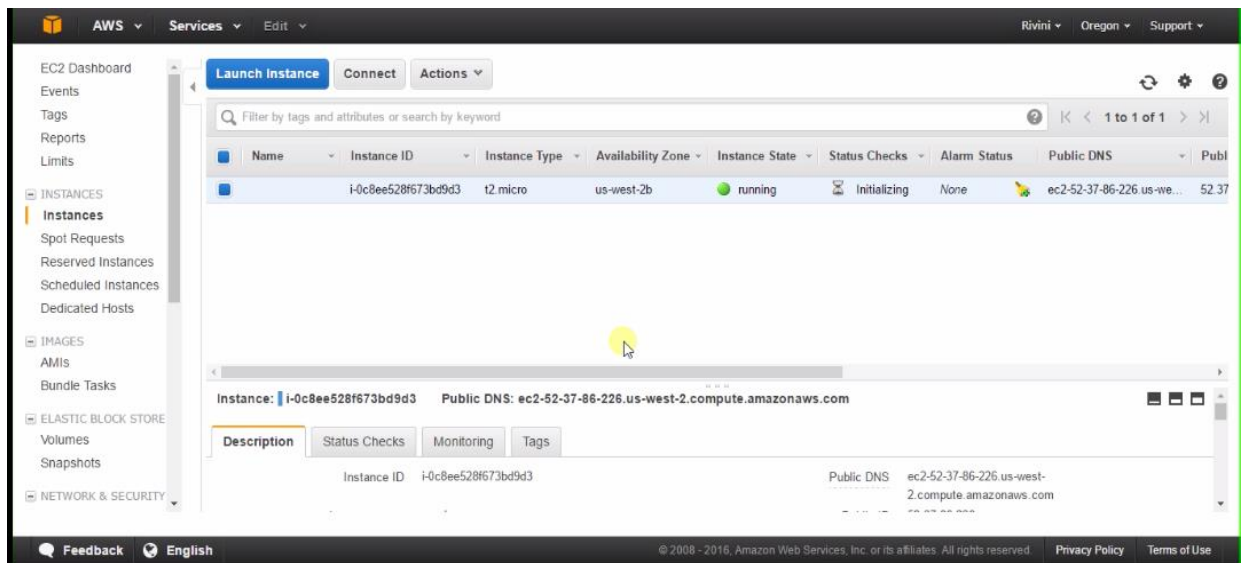
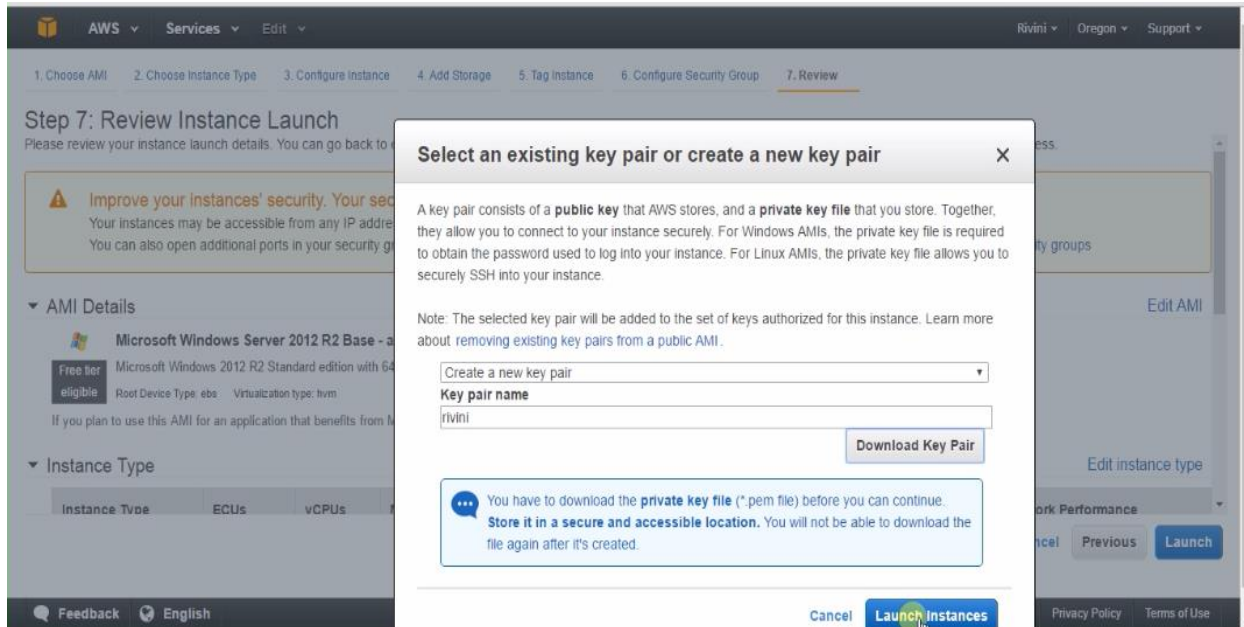
Create a new key pair
Key pair name

[Download Key Pair](#)

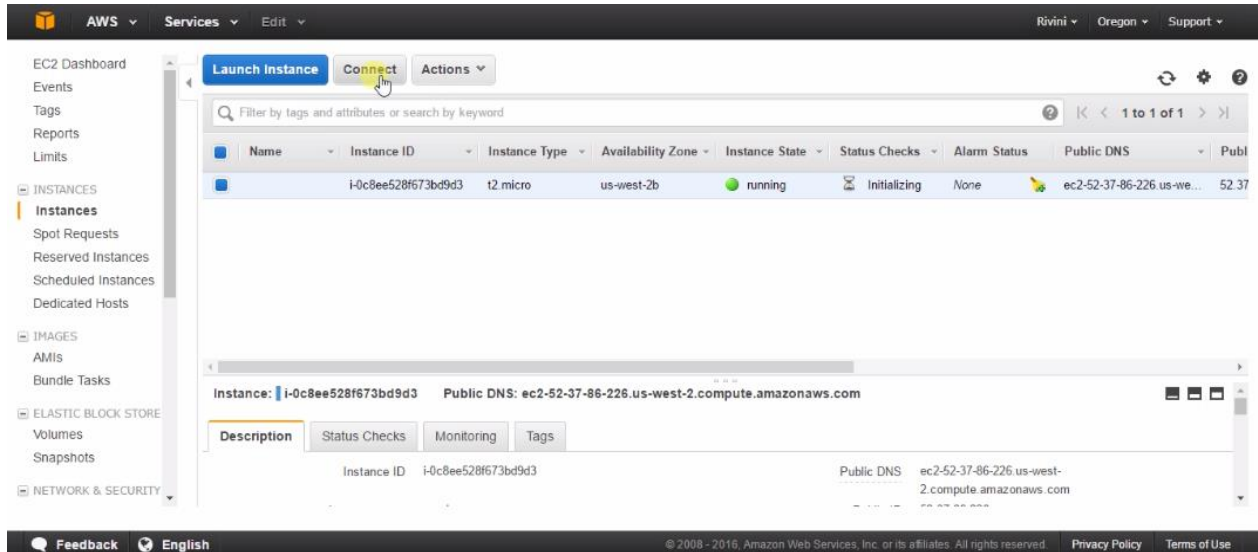
You have to download the **private key file** (*.pem file) before you can continue. Store it in a **secure and accessible location**. You will not be able to download the file again after it's created.

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

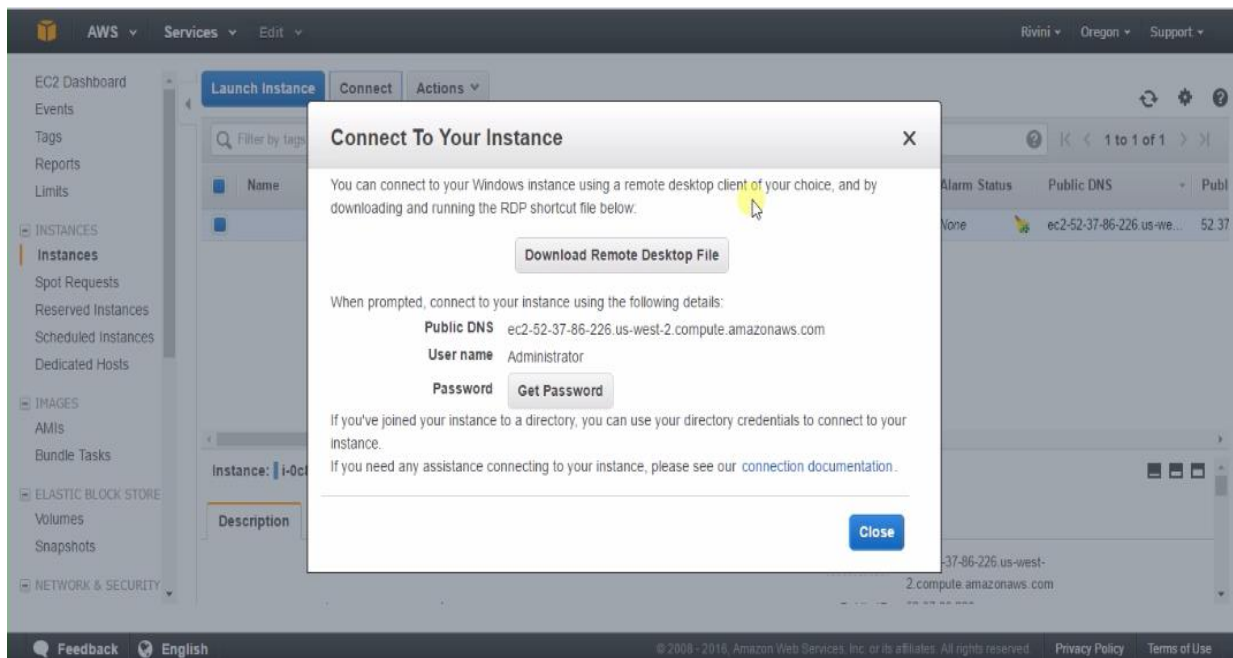
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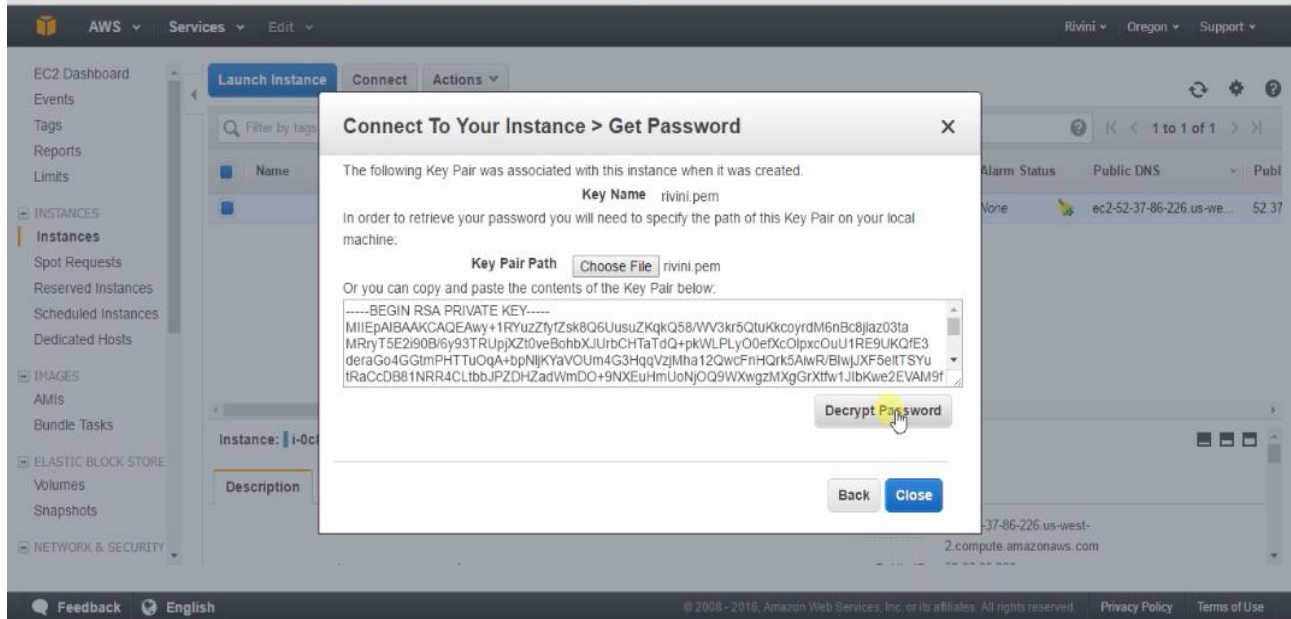
7. Connect instance



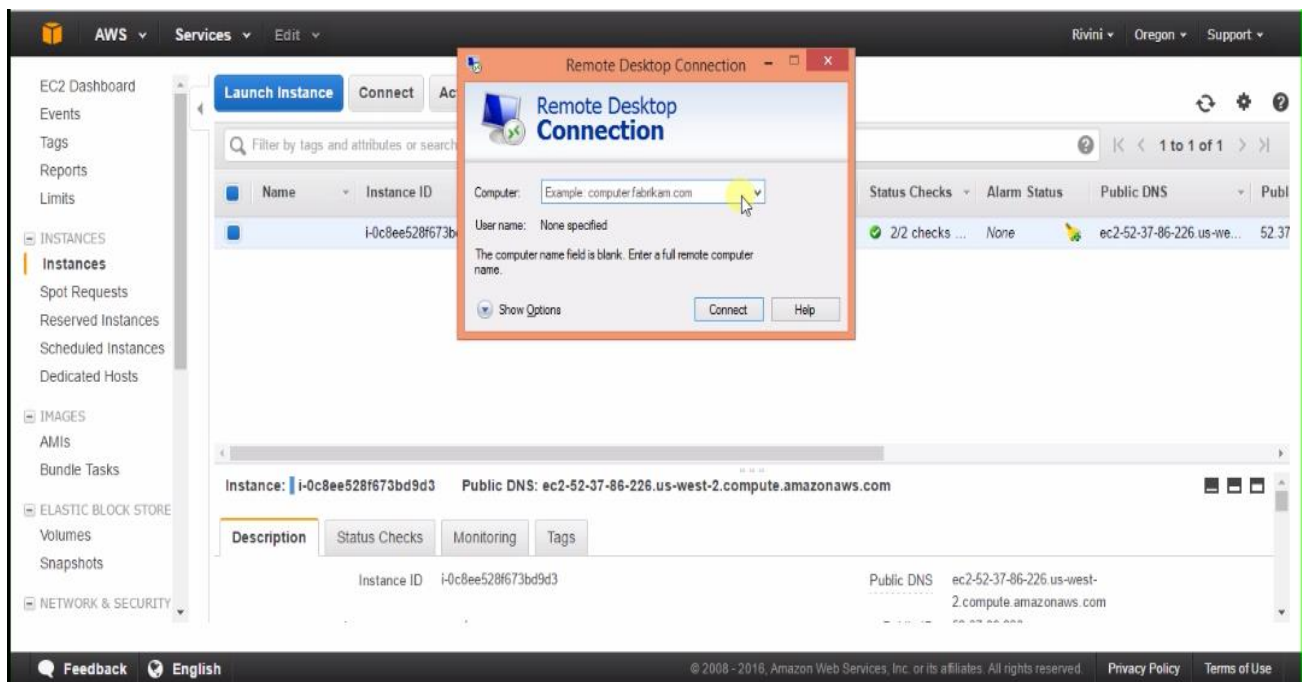
The screenshot shows the AWS Management Console interface. On the left, the navigation pane includes sections for EC2 Dashboard, INSTANCES, IMAGES, ELASTIC BLOCK STORE, and NETWORK & SECURITY. The 'INSTANCES' section is expanded, showing a list of instances. The main content area displays a table with columns: Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, Public DNS, and Public IP. A single instance is listed with ID 'i-0c8ee528f673bd9d3' and state 'running'. Above the table, there are buttons for 'Launch Instance', 'Connect', and 'Actions'. The 'Connect' button is highlighted with a yellow cursor. Below the table, the instance details for 'i-0c8ee528f673bd9d3' are shown, including its Public DNS: 'ec2-52-37-86-226.us-west-2.compute.amazonaws.com'.

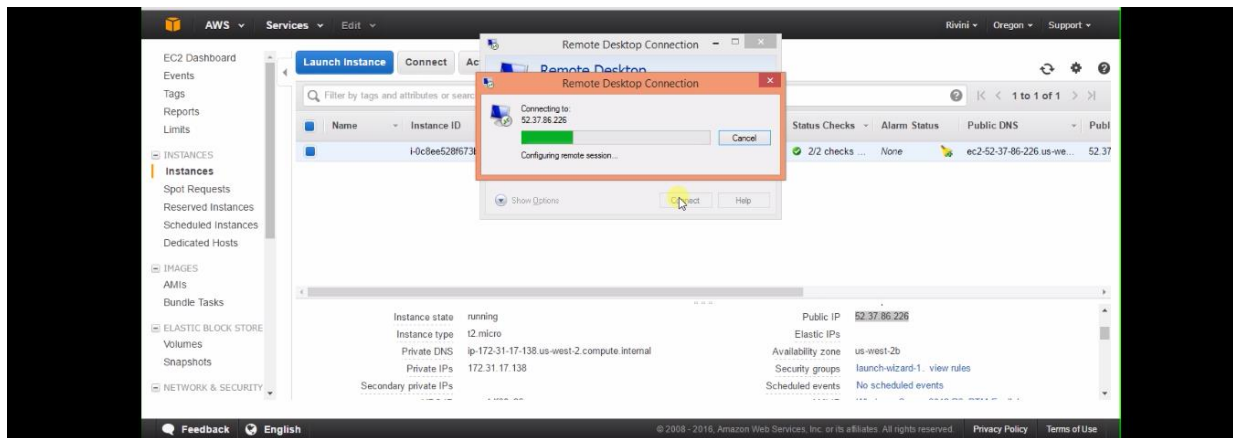


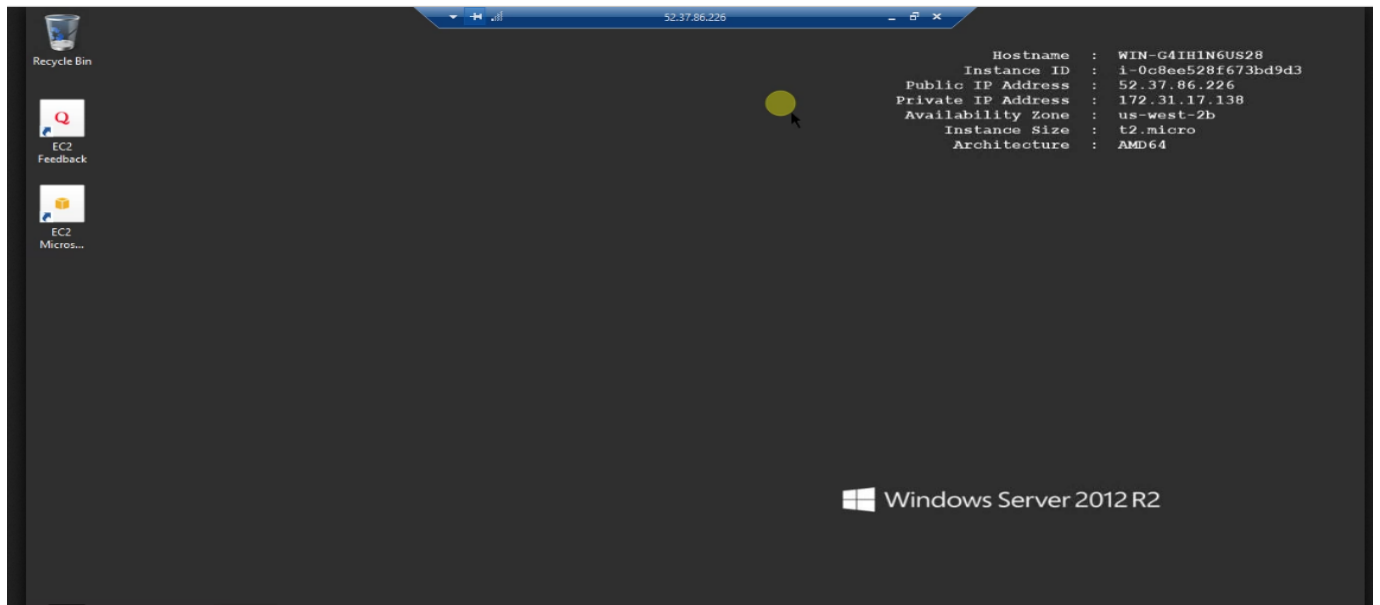
The screenshot shows the same AWS Management Console interface, but with a 'Connect To Your Instance' dialog box open in the foreground. The dialog box contains the following text: 'You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below.' Below this text is a button labeled 'Download Remote Desktop File'. Further down, it says 'When prompted, connect to your instance using the following details:'. This is followed by three fields: 'Public DNS' with the value 'ec2-52-37-86-226.us-west-2.compute.amazonaws.com', 'User name' with the value 'Administrator', and 'Password' with a 'Get Password' button next to it. At the bottom of the dialog, there is a 'Close' button. The background shows the same instance list and details as the previous screenshot.



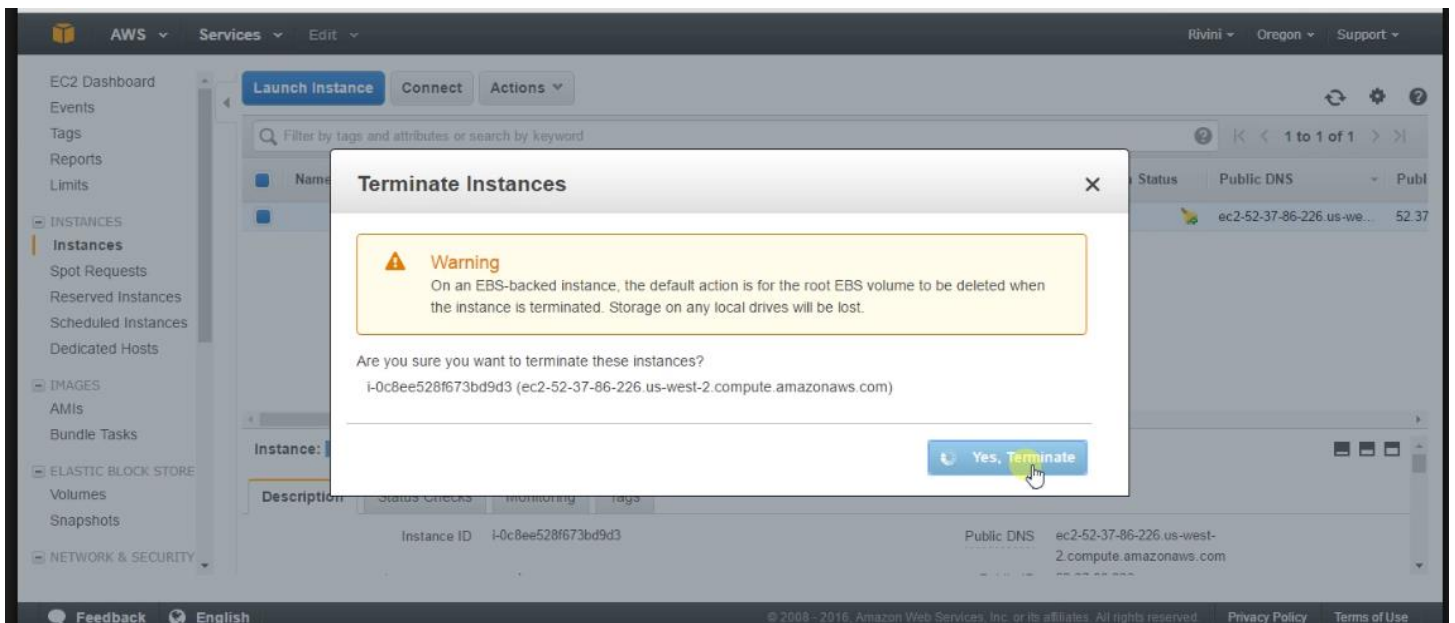
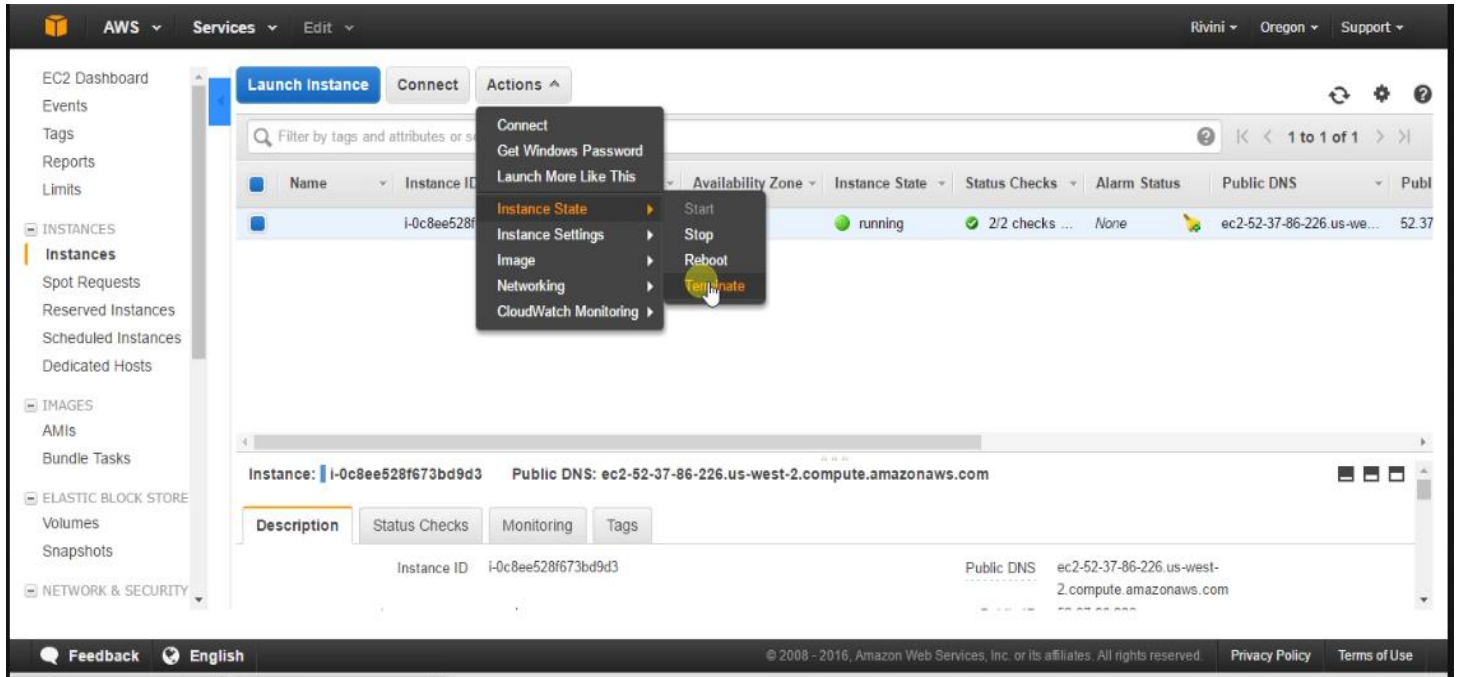
8. Remote Desktop Connection







9. Clean up instance



AWS

Services

Edit

Rivini

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

Launch Instance

Connect

Actions

Filter by tags and attributes or search by keyword

<< 1 to 1 of 1 >>

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP
	i-0c8ee528f673bd9d3	t2.micro	us-west-2b	terminated		None		

Instance: i-0c8ee528f673bd9d3

Public DNS: -

Description

Status Checks

Monitoring

Tags

Instance ID

i-0c8ee528f673bd9d3

Public DNS

-

Instance state

terminated

Public IP

Feedback

English

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