

Sri Lanka Institute of Information Technology

Enterprise Standards and Best Practices for IT Infrastructure

4th Year 2nd Semester 2014

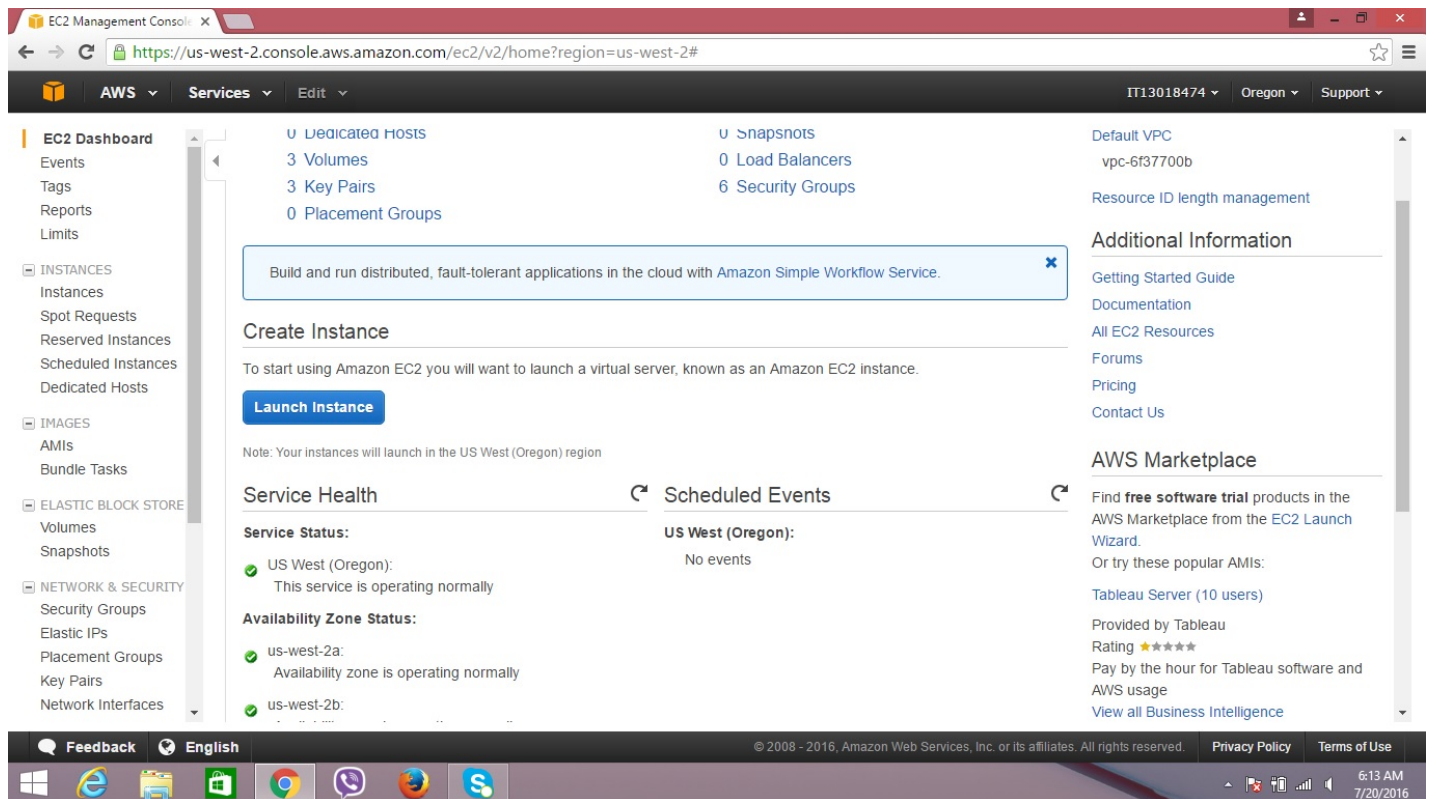
Name - Hettiarachchi H.A.K.S

IT Number - IT13018474

AWS Windows server setup

step1:

select the login instance first**



The screenshot displays the AWS Management Console for the EC2 service in the us-west-2 region. The left-hand navigation pane lists various services under categories like INSTANCES, IMAGES, ELASTIC BLOCK STORE, and NETWORK & SECURITY. The main content area shows the 'Create Instance' button and a 'Service Health' section indicating that the US West (Oregon) service is operating normally. The right-hand sidebar provides 'Additional Information' links such as 'Getting Started Guide' and 'Documentation', as well as 'AWS Marketplace' options for finding free software trials. The bottom of the image shows a Windows taskbar with several application icons and a system clock indicating 6:13 AM on 7/20/2016.

step2:

Select the microsoft windows server 2012**

EC2 Management Console X

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

AWS Services Edit IT13018474 Oregon Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

SUSE Linux
Free tier eligible

SUSE Linux Enterprise Server 12 SP1 (HVM), SSD Volume Type - ami-d2627db3

SUSE Linux Enterprise Server 12 Service Pack 1 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.

Root device type: ebs Virtualization type: hvm

64-bit

Select

Ubuntu
Free tier eligible

Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-d732f0b7

Ubuntu Server 14.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Root device type: ebs Virtualization type: hvm

64-bit

Select

Windows
Free tier eligible

Microsoft Windows Server 2012 R2 Base - ami-26e72546

Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English]

Root device type: ebs Virtualization type: hvm

64-bit

Select

Are you launching a database instance? Try Amazon RDS. Hide

Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale a relational database of your choice (MySQL, PostgreSQL, Oracle, SQL Server) in the cloud. It provides cost-efficient and resizable capacity while managing time-consuming database

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step3:

select the instance type like here**

EC2 Management Console X

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

AWS Services Edit IT13018474 Oregon Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

Step 2: Choose an Instance Type

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 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

Cancel Previous Review and Launch Next: Configure Instance Details

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step4:

configure instance details and click review**

EC2 Management Console

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

AWS Services Edit IT13018474 Oregon Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

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-6f37700b (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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step5:

add storage and click review and launch**

EC2 Management Console

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

AWS Services Edit IT13018474 Oregon Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

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-432bd8be	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

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step6:

review instance launch**

EC2 Management Console

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

AWS Services Edit

IT13018474 Oregon Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

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-4, 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-26e72546

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 [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](#)

Feedback English

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step7:

Select "create new key pair"***

EC2 Management Console

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

AWS Services Edit

IT13018474 Oregon Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

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-4, 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-26e72546

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 [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](#)

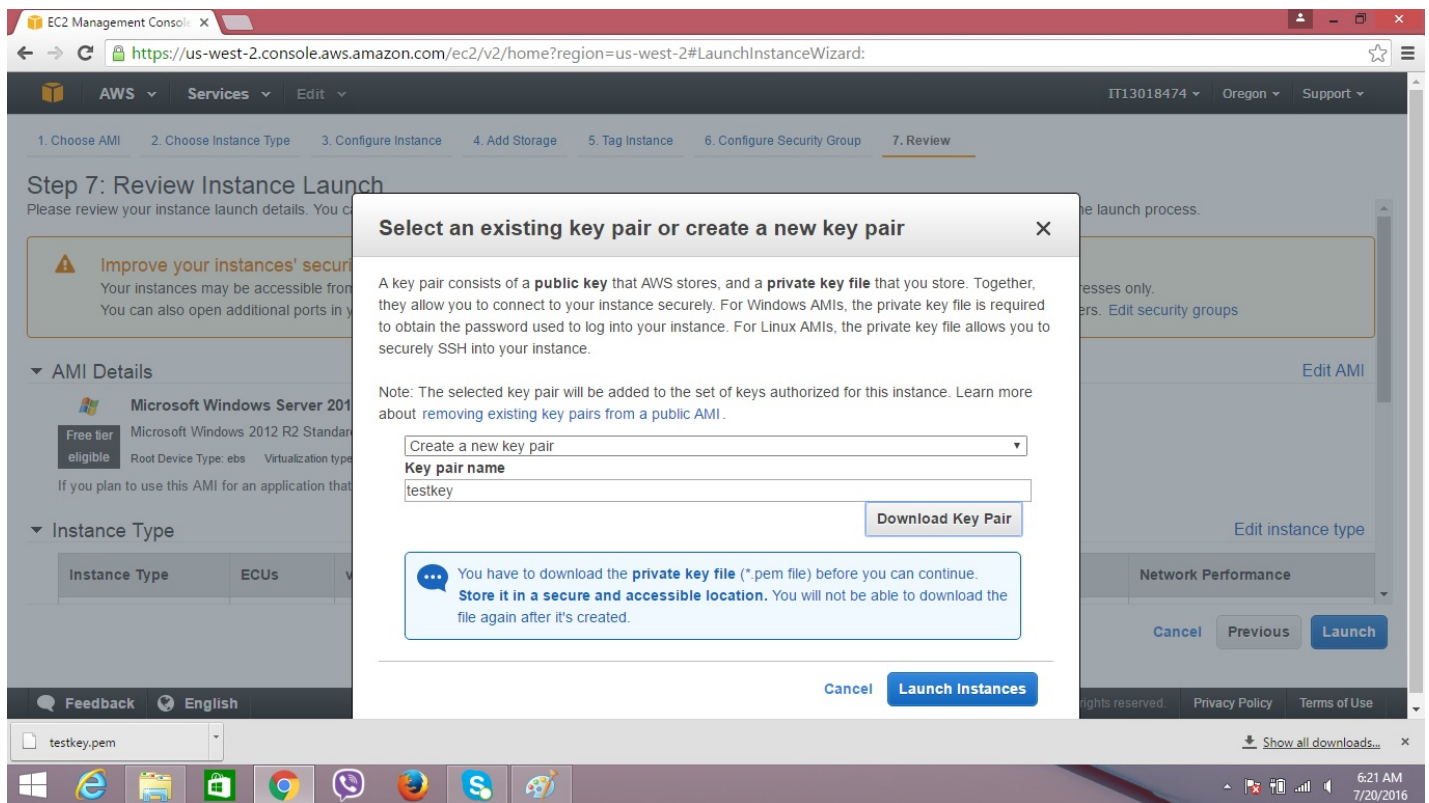
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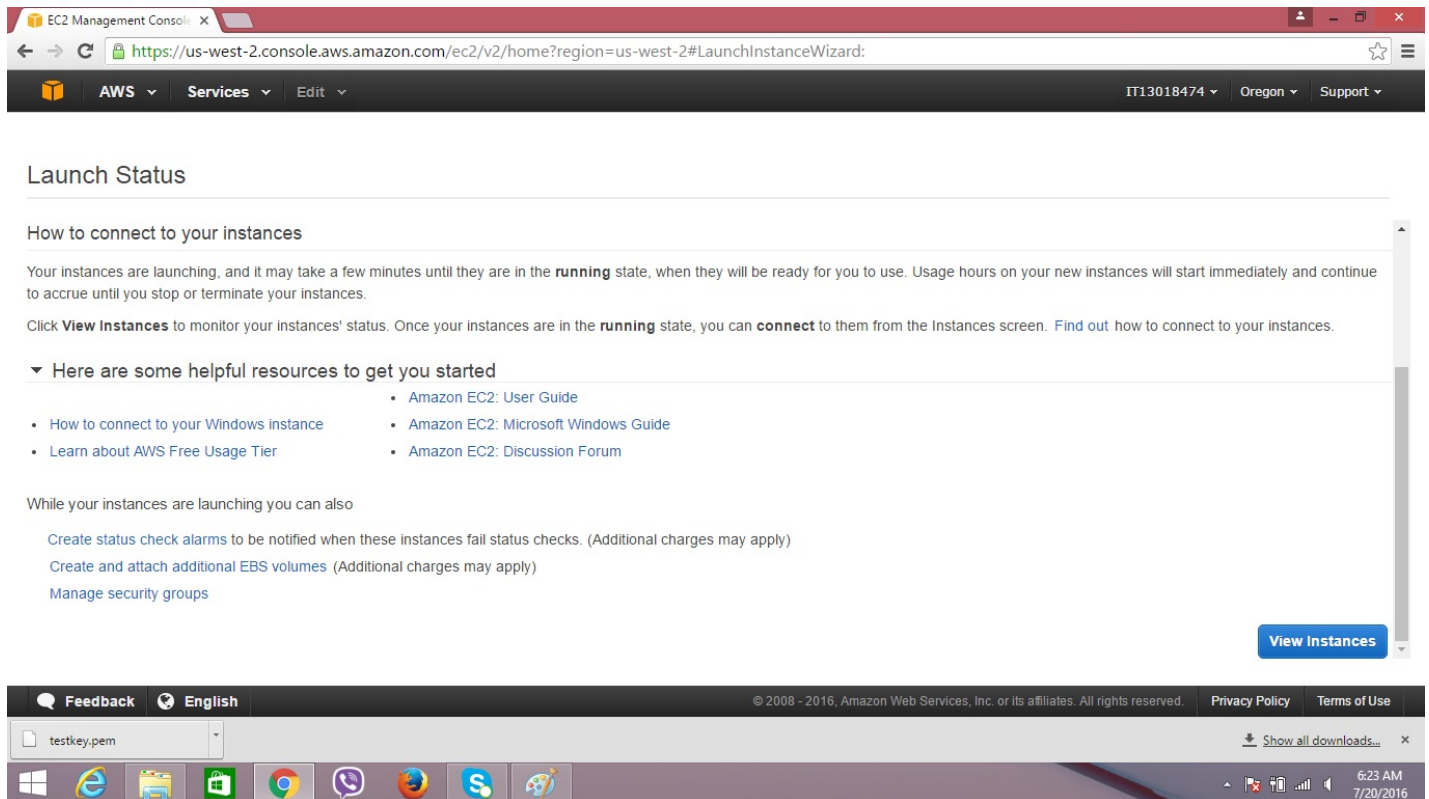
step8:

give the appropriate key pair name and download it.**



step9:

Then will get the launch status.**



step10:

we can see the instance after clicked the "view instance" from above step.**

EC2 Management Console

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:

AWS Services Edit

IT13018474 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

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP
	i-04d706761f5bbd5d5	t2.micro	us-west-2a	stopped		None		
	i-064866b4a0b39c31f	t2.micro	us-west-2a	running	2/2 checks ...	None	ec2-52-36-93-224.us-we...	52.36
	i-08b54bfb485465ff9	t2.micro	us-west-2a	initializing	Initializing	None	ec2-52-42-118-137.us-w...	52.42
	i-0ed39ccf8de98dc92	t2.micro	us-west-2b	running	2/2 checks ...	None	ec2-52-41-169-181.us-w...	52.41

Instance state: running
Instance type: t2.micro
Private DNS: ip-172-31-25-45.us-west-2.compute.internal
Private IPs: 172.31.25.45
Secondary private IPs:
Public IP: 52.42.118.137
Elastic IPs:
Availability zone: us-west-2a
Security groups: launch-wizard-4. view rules
Scheduled events: No scheduled events

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testkey.pem Show all downloads...

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step11:

Next click the connect button from the above step image and show like this.

EC2 Management Console

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:

AWS Services Edit

IT13018474 Oregon Support

EC2 Dashboard
Events
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INSTANCES

Instances

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NETWORK & SECURITY

Security Groups

Launch Instance Connect Actions

Filter by tags

Connect To Your Instance

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:

Download Remote Desktop File

When prompted, connect to your instance using the following details:

Public DNS: ec2-52-42-118-137.us-west-2.compute.amazonaws.com
User name: Administrator
Password: Get Password

If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.

If you need any assistance connecting to your instance, please see our [connection documentation](#).

Close

Private IPs: 172.31.25.45
Secondary private IPs:
Public IP: 52.42.118.137
Elastic IPs:
Availability zone: us-west-2a
Security groups: launch-wizard-4. view rules
Scheduled events: No scheduled events

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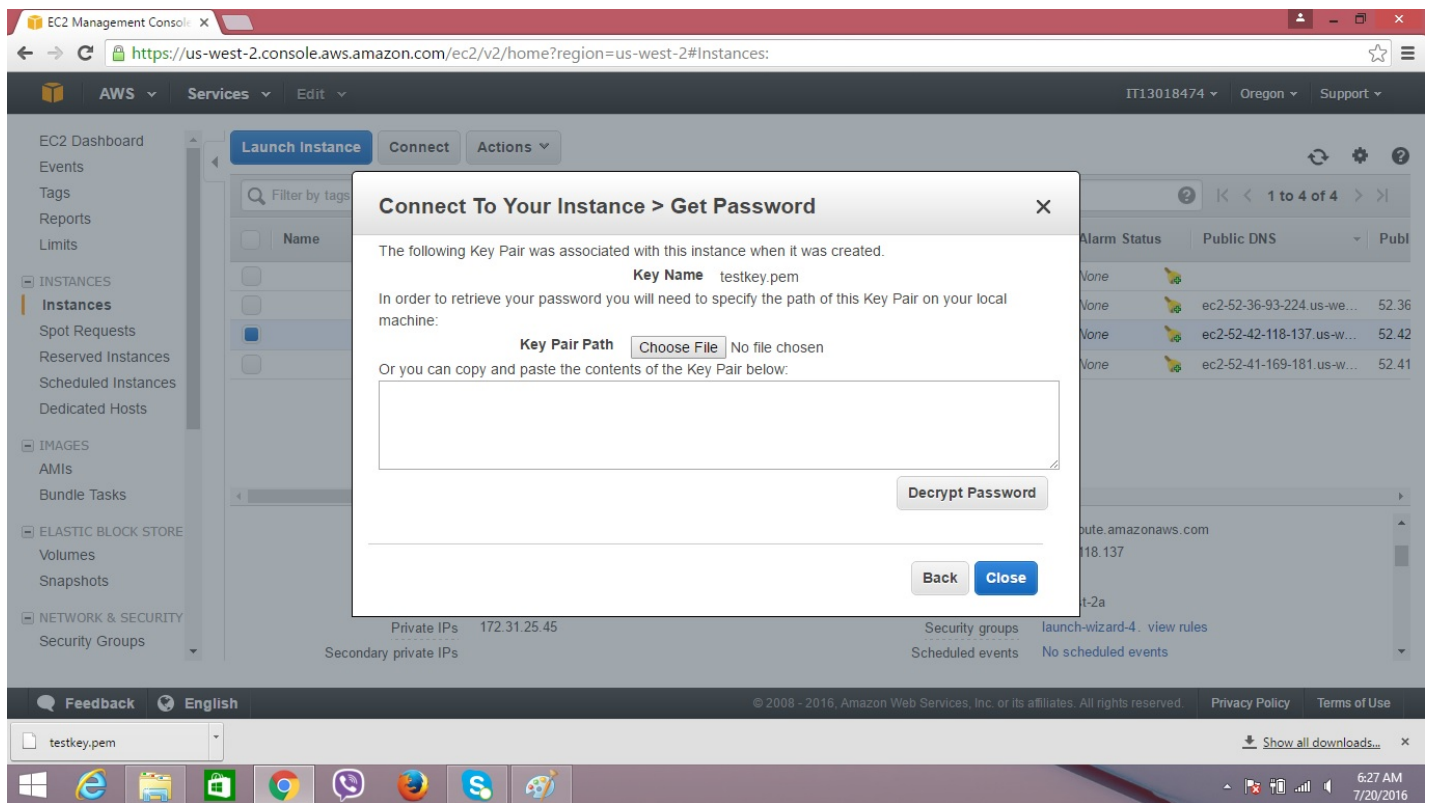
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testkey.pem Show all downloads...

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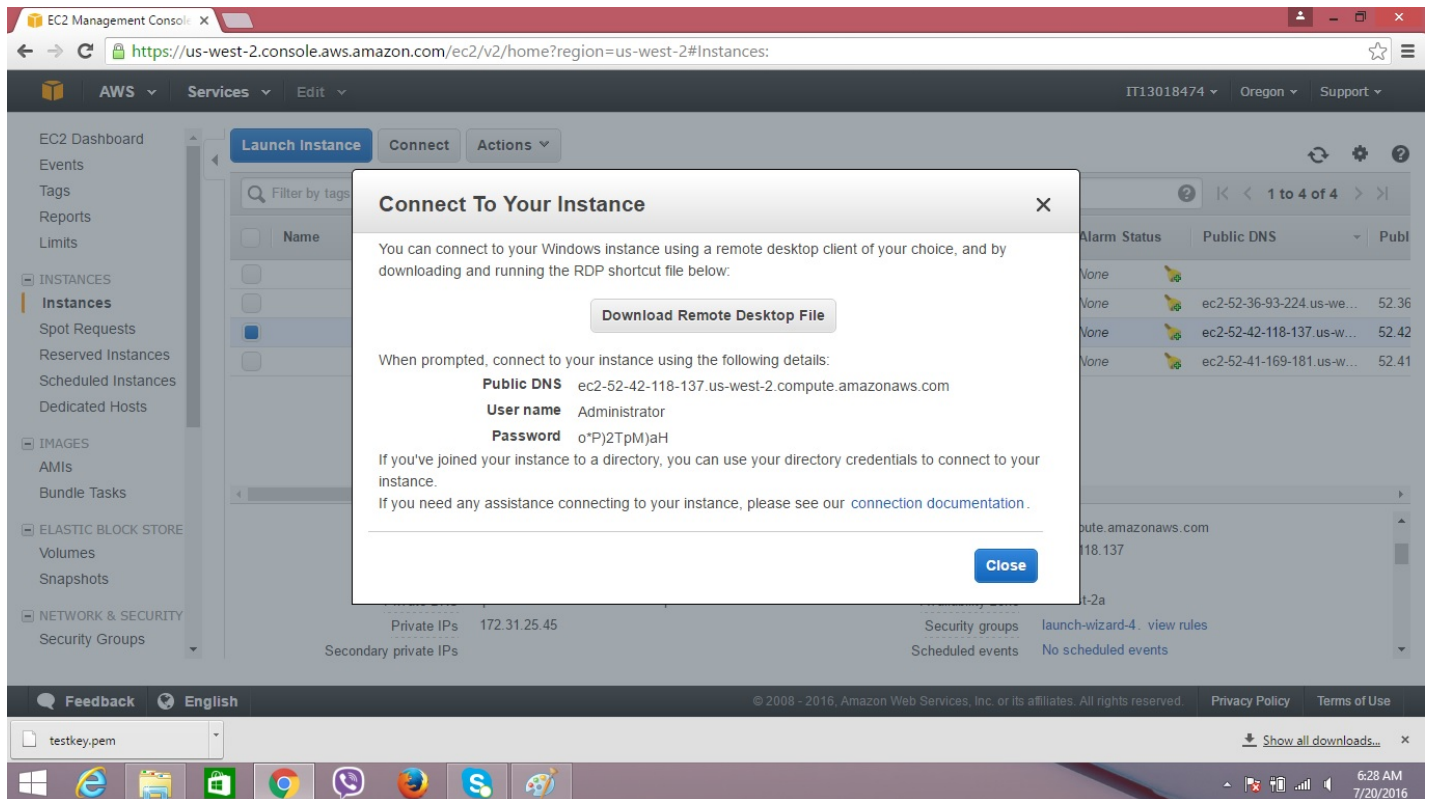
step12:

after clicked the get "password button" browse the downloaded key pair and decrypt it.**



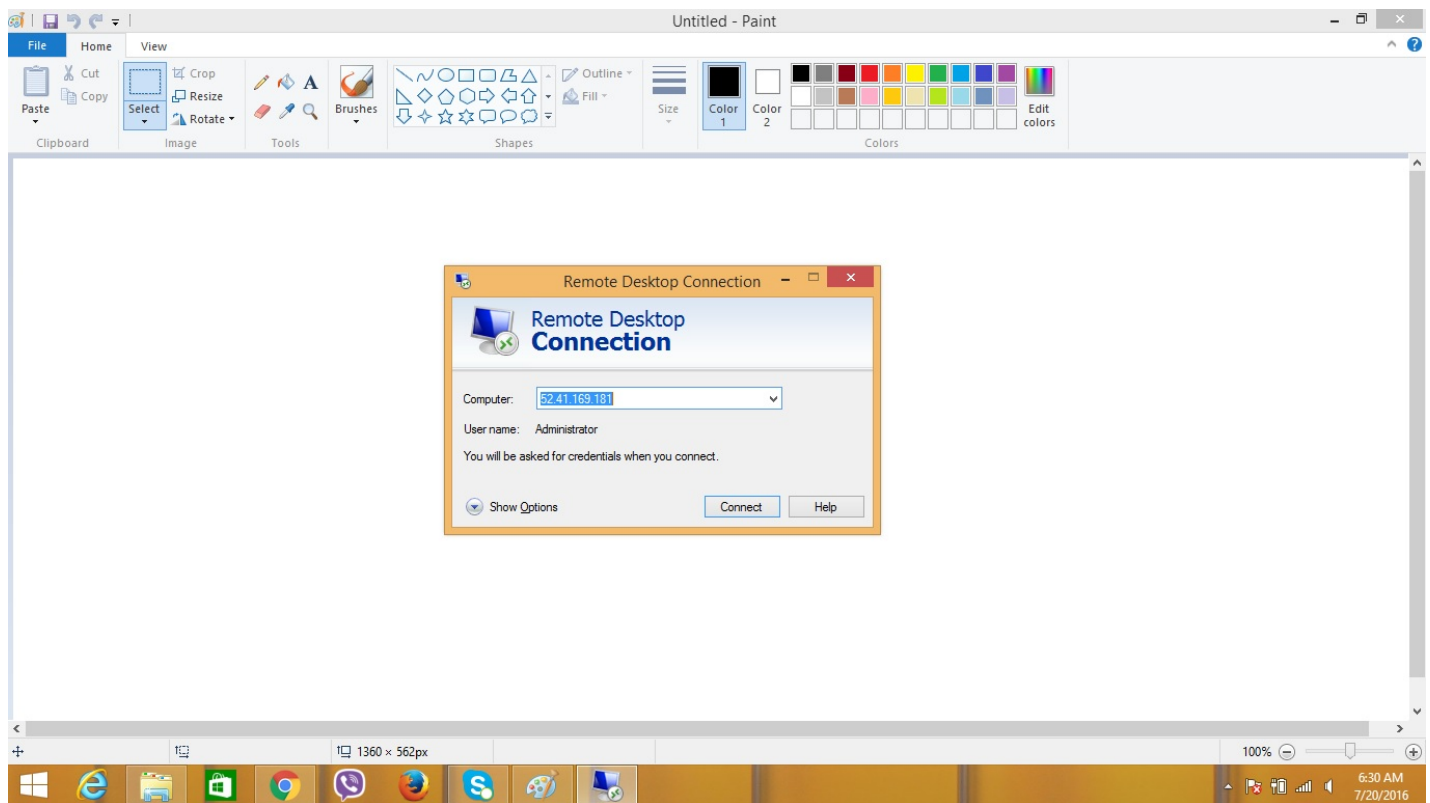
step13:

Get the username and password like this and remember both of these.**



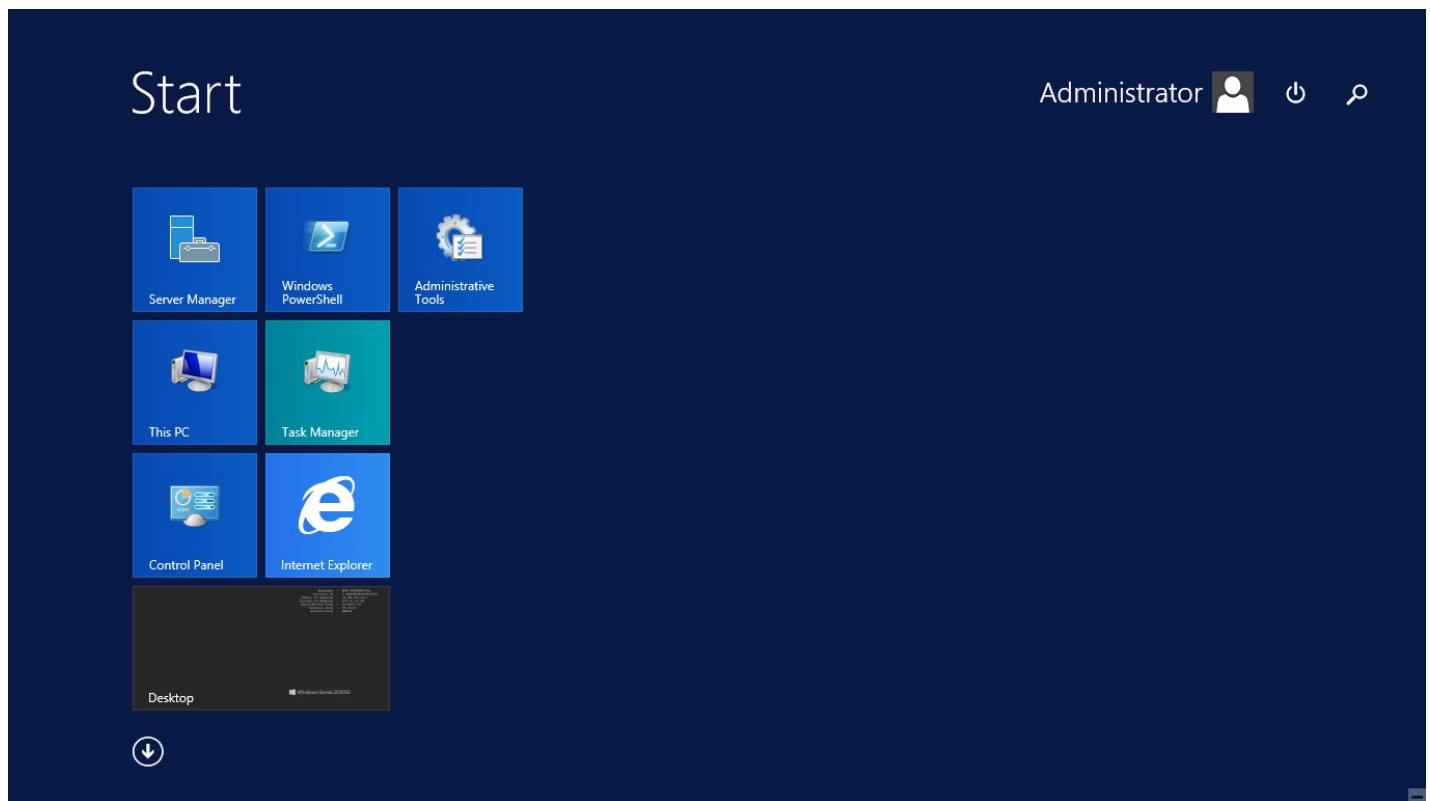
step14:

From pc select "remote desktop" and show like this.**



step15:

After enter the ip addressof the instance,user name and password we can show this remote desktop.**



step15.1:

After enter the ip addressof the instance,user name and password we can show this remote desktop.**



Recycle Bin



EC2
Feedback




EC2
Micros...

```
Hostname      : WIN-04VVDHEIF1Q
Instance ID   : i-08b54bfb485465ff9
Public IP Address : 52.42.118.137
Private IP Address : 172.31.25.45
Availability Zone : us-west-2a
Instance Size  : t2.micro
Architecture  : AMD64
```

 Windows Server 2012 R2



 1:36 PM
7/20/2016