



SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

4th Year 2nd Semester 2016

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Practical Session: WE Tuesday

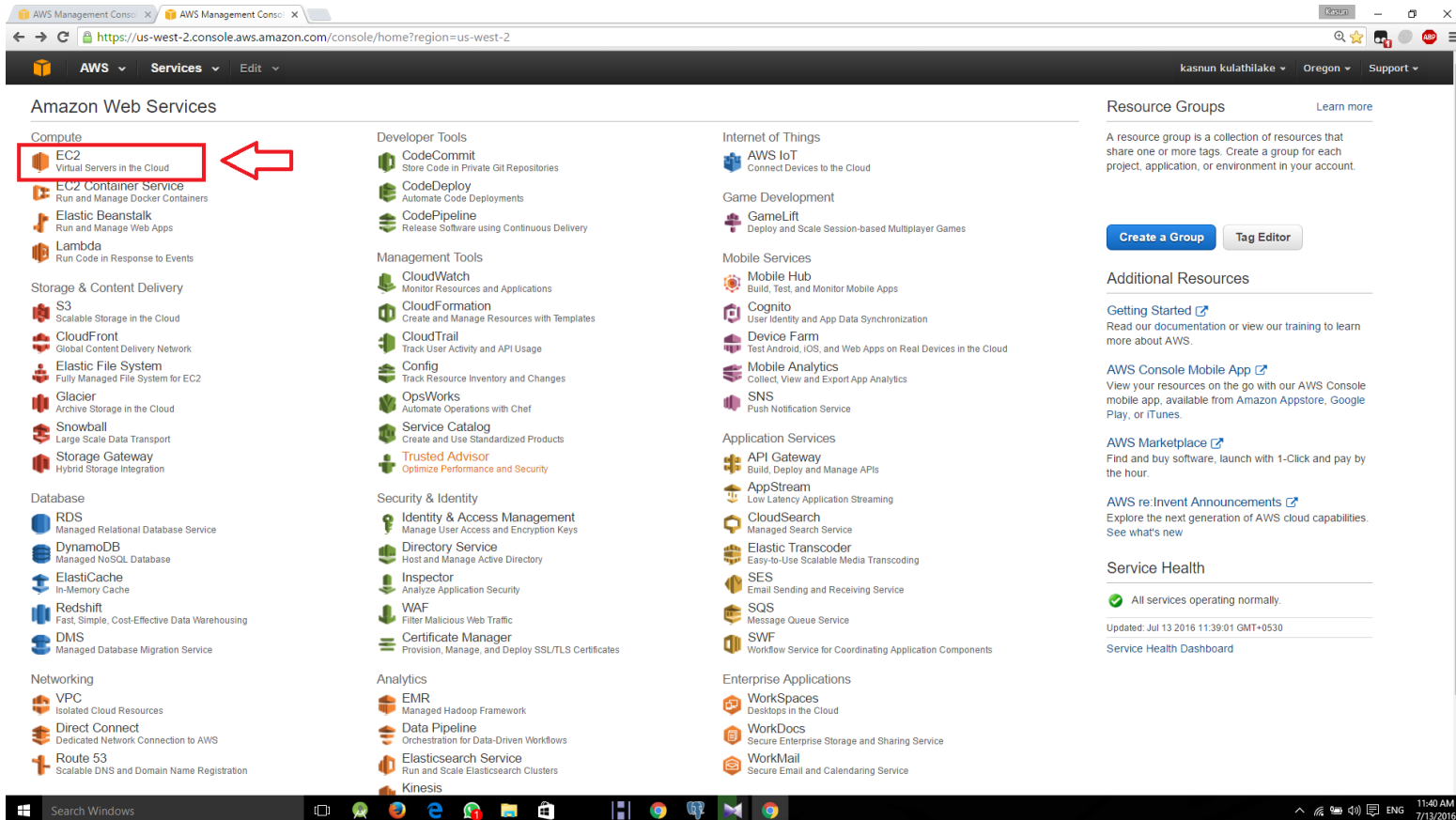
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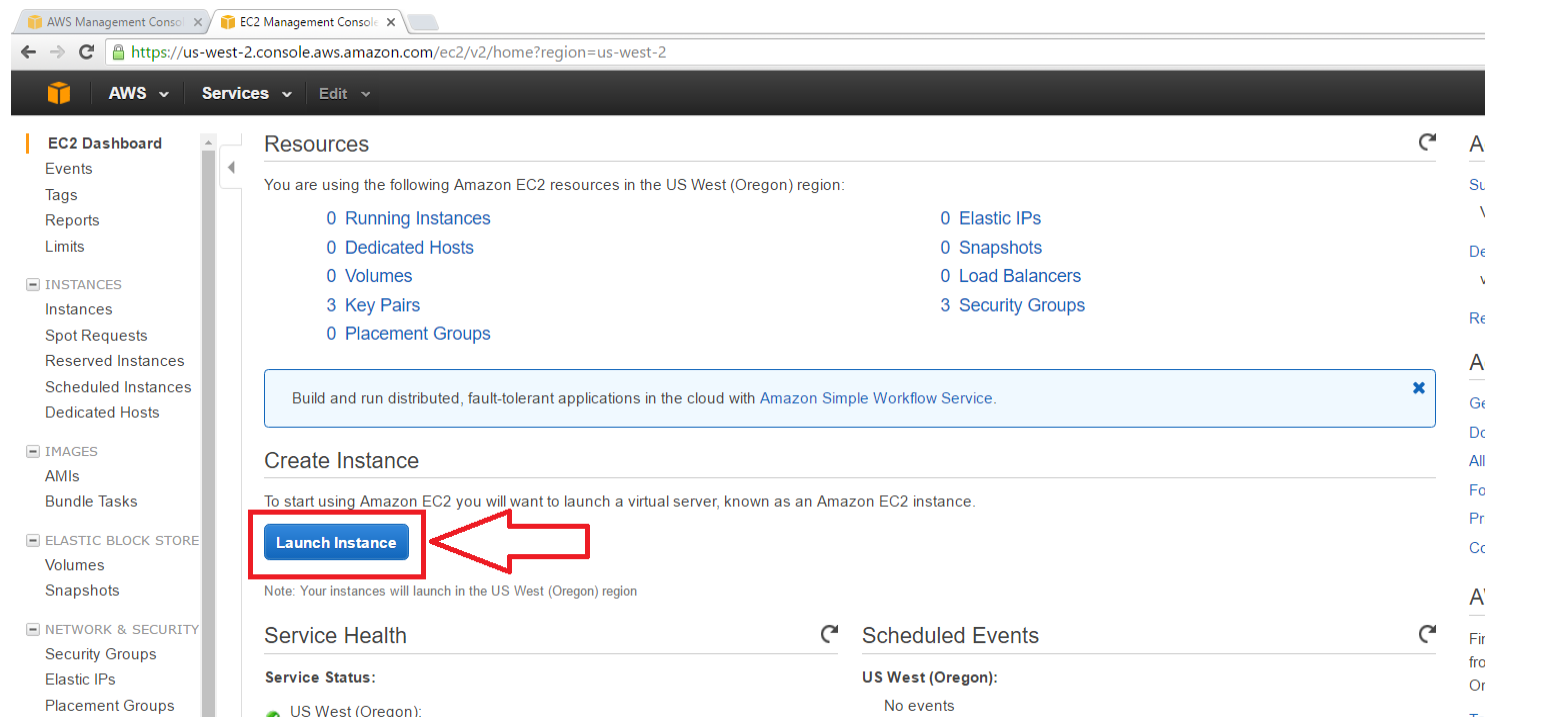
Launching the windows server 2012 R2 base

Steps

1. Open the Amazon EC2 console



2. From the console dashboard .choose launch instance



- Choose an Amazon Machine Image (AMI) since you want to launch server 2012 select the AMI for Microsoft Windows Server 2012 R2 base.



- On the choose an instance type page we can select the hardware configuration for our selected instance. From the menu select the t2.micro type, which is selected by default and it's a free eligible tier. And then select configure instance details button

AWS Management Console | EC2 Management Console

Search Windows

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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

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 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 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only

	EBS only	Yes	High
	EBS only	Yes	High
	EBS only	Yes	High
	EBS only	Yes	10 Gigabit
	1 x 4 (SSD)	-	Moderate

[Cancel](#)
[Previous](#)
[Review and Launch](#)
[Next: Configure Instance Details](#)

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- Here we can set the network and the assign the IP address and the subnet for our network. For now we use the default one.it can be change according to your network requirement. Then click the add storage button.

AWS Management Console
EC2 Management Console

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

AWS Services Edit

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

Number of instances ⓘ 1 Launch into Auto Scaling Group ⓘ

Purchasing option ⓘ ☐ Request Spot instances

Network ⓘ vpc-d10d76b5 (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 Additional charges apply.

Tenancy ⓘ Shared - Run a shared hardware instance Additional charges will apply for dedicated tenancy.

► Advanced Details

- Here in add storage if you change the amount of GB it will charge from you so we keep the default value as it is. If you need more GB then you can change the amount according to your requirement.

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 Encrypt

[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.

- In tag instance and configure security group we don't need to change the configuration so we keep the default values. now we can launch the instance. for that press the review and launch button.

Step 5: Tag Instance

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. [Learn more](#) about tagging your Amazon EC2 resources.

Create Tag (Up to 10 tags maximum)

Key (127 characters maximum)	Value (255 characters maximum)
Name	

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach it, you can allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group ☐ Select an existing security group

Security group name: launch-wizard-3

Description: launch-wizard-3 created 2016-07-13T11:43:56.183+05:30

Type	Protocol	Port Range	Source
RDP	TCP	3389	Anywhere 0.0.0.0/0

[Add Rule](#)

8. Then once you done with the review you can press the launch button.

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

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AWS Management Console EC2 Management Console

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

AWS Services Edit kasnun kulathilake 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

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 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

Security Groups [Edit security groups](#)

Security group name: launch-wizard-3

Description: launch-wizard-3 created 2016-07-13T11:43:56.183+05:30

Type	Protocol	Port Range	Source
RDP	TCP	3389	0.0.0.0/0

Instance Details [Edit instance details](#)

Storage [Edit storage](#)

Tags [Edit tags](#)

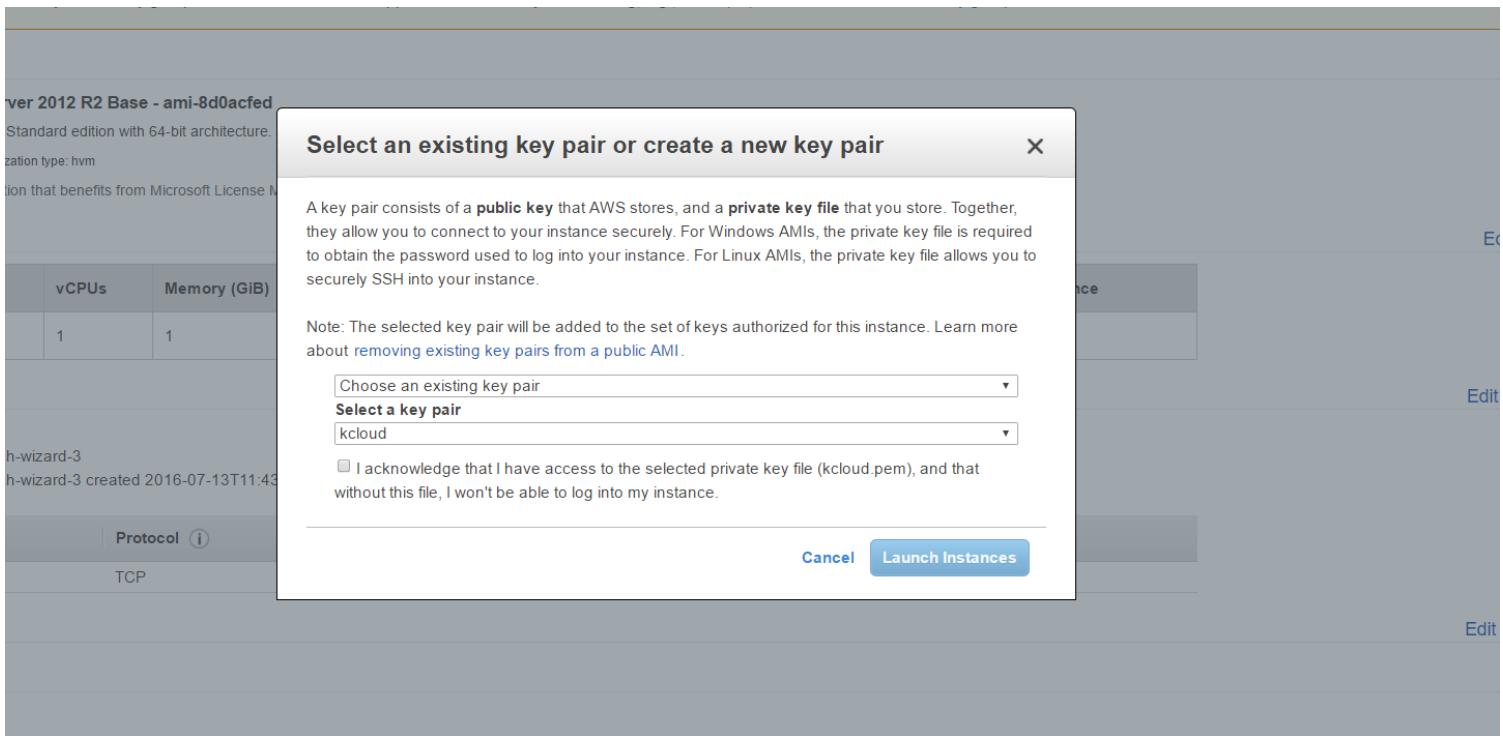
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Feedback English

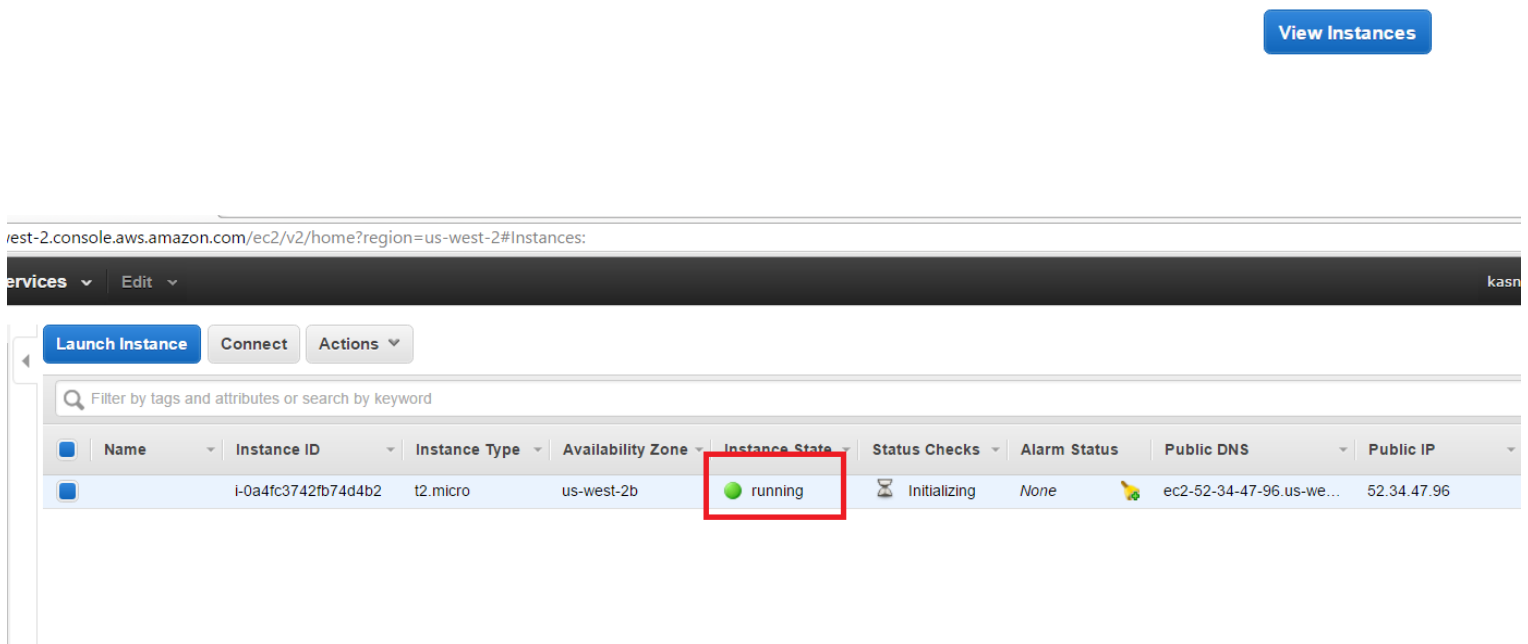
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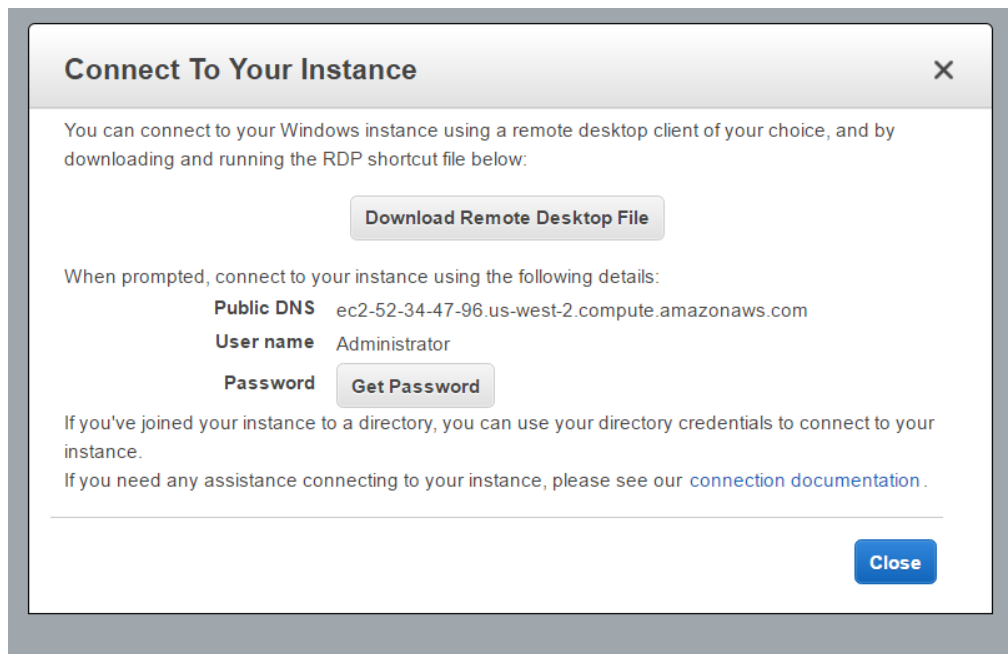
9. Once you hit the launch button then we can create the private key pair for our new instance, then from the menu select the create new key pair and give the key pair name. If you have already created key then you can use that key for your instance.



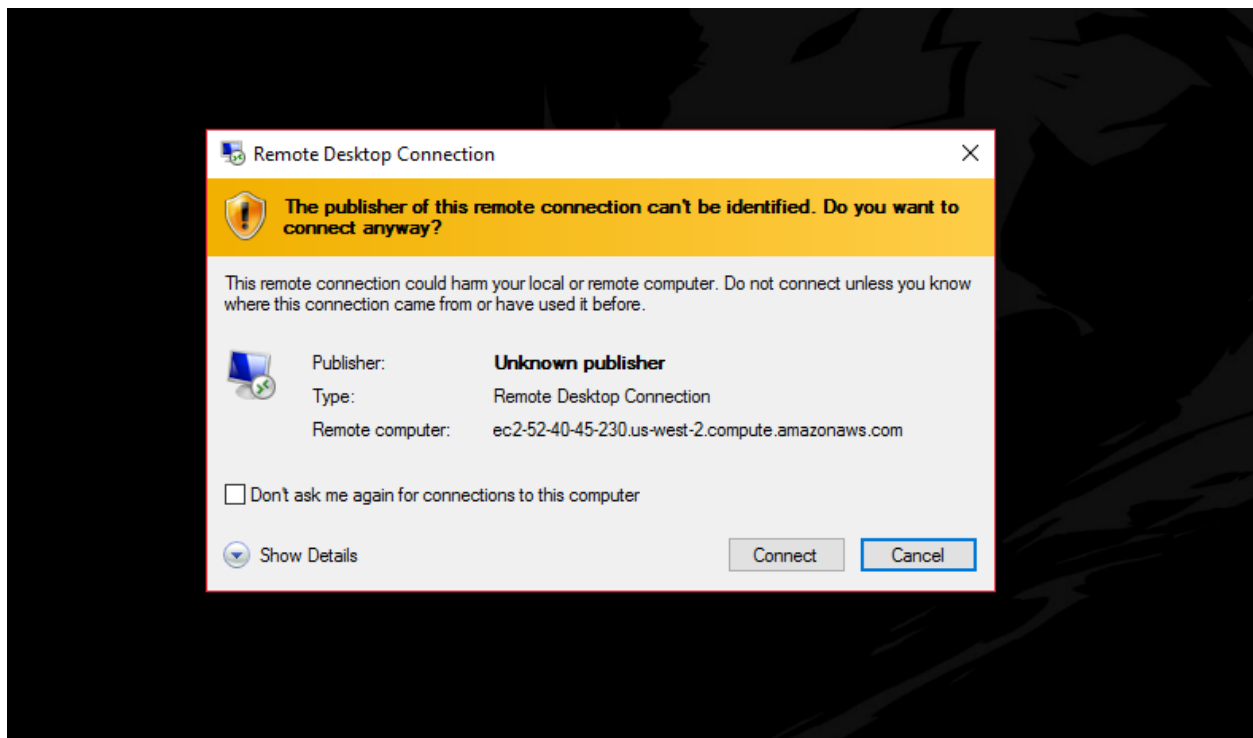
10. When you create the key then hit the launch instance button. then press view instance to view the launching instance. Now you can see that your instance is running.



11. Now we need to connect with our machine so to do that press connect button then you can download the remote desktop file and get your password



12. To connect your server double click on downloaded remote desktop file then it will prompt the connection window message then press the connect button.



13. Once you hit the connect button it will prompt the windows security form to enter your credentials. Here enter your instance password and then finally you will connect to the windows server 2012.

