

How-to Create a New EC2 Instance Key Pair

1. Use the below URL for login to AWS account.

<http://aws.amazon.com/>



2. Login to your AWS account.

3. Go to AWS Management console:-

Services You're Signed Up For	
Amazon CloudFormation	Amazon Simple Queue Service (SQS)
Amazon CloudFront	Amazon Simple Storage Service (S3)
Amazon CloudSearch	Amazon Simple Workflow Service (SWF)
Amazon CloudWatch	Amazon SimpleDB
Amazon DynamoDB	Amazon Virtual Private Cloud (VPC)
Amazon Elastic Compute Cloud (EC2)	Auto Scaling
Amazon Elastic MapReduce	AWS CloudHSM
Amazon Elastic Transcoder	AWS Data Pipeline
Amazon ElastiCache	AWS Direct Connect
Amazon Glacier	AWS Elastic Beanstalk
Amazon Kinesis	AWS Import/Export
Amazon Mechanical Turk	AWS OpsWorks

4. Go to AWS console.

The screenshot shows the top of the AWS website. The Amazon Web Services logo is in the top left. In the top right, there are links for 'Sign Up', 'My Account / Console', and 'English'. Below the logo, there's a navigation bar with 'AWS Products & Solutions', a search bar, and links for 'Developers' and 'Support'. On the left side, there's a sidebar with 'PRODUCTS & SERVICES' and 'RELATED LINKS'. The 'PRODUCTS & SERVICES' section includes 'AWS Console', 'Console Mobile App', and 'FAQs'. The 'RELATED LINKS' section includes 'Documentation', 'Articles & Tutorials', 'Developer Tools', 'Public Data Sets', 'Amazon Machine Images (AMIs)', and 'Videos & Webinars'. The main content area features the 'AWS Management Console' heading, a description of the console, a 'Sign in to the AWS Console' button, and a 'Features' section with the text 'Access all AWS services in one place' and a screenshot of the console interface.

Sign in to the AWS Console

AWS Management Console

Access and manage Amazon Web Services through a simple and intuitive web-based user interface. You can also use the companion [AWS Console for iOS and Android](#) to quickly view resources on-the-go.

Features

Access all AWS services in one place

The AWS Management Console is a single destination for managing all your AWS resources, from EC2 instances to DynamoDB tables. Use the Console to perform any number of tasks, from deploying new applications to monitoring the health of your application.

Administer your AWS account

The screenshot shows the AWS Management Console interface. The top navigation bar includes 'Services', 'Edit', and 'cloud at edureka', 'Global', and 'Help'. The main content area is titled 'Amazon Web Services' and is organized into several categories:

- Compute & Networking:** Direct Connect, EC2 (highlighted with a yellow circle), Route 53, VPC.
- Database:** DynamoDB, ElastiCache, RDS, Redshift.
- Analytics:** Data Pipeline, Elastic MapReduce, Kinesis.
- App Services:** CloudSearch, Elastic Transcoder, SES, SNS, SQS, SWF.
- Storage & Content Delivery:** CloudFront, Glacier, S3, Storage Gateway.
- Deployment & Management:** CloudFormation, CloudTrail, CloudWatch, Elastic Beanstalk, IAM, OpsWorks.

Additional Resources: Getting Started, Trusted Advisor, Service Health, Set Start Page, AWS Marketplace.

5. Select EC2 from above mentioned services.

3. Select any of the regions from the left hand side drop down. E.g. we have selected 'US-West (Oregon)'.

The screenshot shows the AWS Management Console interface for the EC2 service in the US West (Oregon) region. The left-hand navigation pane includes sections for EC2 Dashboard, INSTANCES, IMAGES, ELASTIC BLOCK STORE, and NETWORK & SECURITY. The main content area is divided into several panels: 'Resources' showing counts for Running Instances (0), Volumes (0), Key Pairs (20), Placement Groups (0), Elastic IPs (0), Snapshots (0), Load Balancers (0), and Security Groups (15); 'Create Instance' with a 'Launch Instance' button; 'Service Health' indicating the service is operating normally; 'Scheduled Events' showing no events; 'Account Attributes' with VPC details; 'Additional Information' with links to guides and documentation; and 'Popular AMIs on AWS Marketplace' featuring the Vyatta Virtual Router/Firewall/VPN. The footer contains copyright information, privacy policy, terms of use, and a feedback button.

Services Edit cloud at edureka Oregon Help

EC2 Dashboard

- Events
- Tags
- Reports
- INSTANCES
 - Instances
 - Spot Requests
 - Reserved Instances
- IMAGES
 - AMIs
 - Bundle Tasks
- ELASTIC BLOCK STORE
 - Volumes
 - Snapshots
- NETWORK & SECURITY
 - Security Groups
 - Elastic IPs
 - Placement Groups

Resources

You are using the following Amazon EC2 resources in the US West (Oregon) region:

0 Running Instances	0 Elastic IPs
0 Volumes	0 Snapshots
20 Key Pairs	0 Load Balancers
0 Placement Groups	15 Security Groups

[Optimize your resources' cost, performance and security with AWS Trusted Advisor](#) [Hide](#)

Create Instance

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

[Launch Instance](#)

Note: Your instances will launch in the US West (Oregon) region.

Service Health

Service Status: **US West (Oregon):**

US West (Oregon):
This service is operating normally

No events

Account Attributes

Supported Platforms
VPC

Default VPC
vpc-ctab8aa7

Additional Information

[Getting Started Guide](#)
[Documentation](#)
[All EC2 Resources](#)
[Forums](#)
[Pricing](#)
[Contact Us](#)

Popular AMIs on AWS Marketplace

Vyatta Virtual Router/Firewall/VPN
Provided by Vyatta, Inc.
Rating ★★★★★
Pay by the hour for software and AWS

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

3. It will list summary of all EC2 activities like number of running instances, EBS volumes, ElasticIPs etc.

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Services | Edit | cloud at edureka | Oregon | Help

EC2 Dashboard

Events
Tags
Reports

INSTANCES
Instances
Spot Requests
Reserved Instances

IMAGES
AMIs
Bundle Tasks

ELASTIC BLOCK STORE
Volumes
Snapshots

NETWORK & SECURITY
Security Groups
Elastic IPs
Placement Groups

Resources

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- 0 Running Instances
- 0 Volumes
- 20 Key Pairs
- 0 Placement Groups
- 0 Elastic IPs
- 0 Snapshots
- 0 Load Balancers
- 15 Security Groups

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Create Instance

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 Instance.

[Launch Instance](#)

Note: Your instances will launch in the US West (Oregon) region.

Service Health

Service Status:
US West (Oregon):
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Scheduled Events
US West (Oregon):
No events

Account Attributes

Supported Platforms
VPC

Default VPC
vpc-ctab0aa7

Additional Information

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Popular AMIs on AWS Marketplace

Vyatta Virtual Router/Firewall/VPN
Provided by Vyatta, Inc.
Rating ★★★★★
Pay by the hour for software and AWS

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4. Select "Key Pairs" from left menu. (EC2 Dashboard). Here will appear all your AWS existing key pairs.

If none click to create the first.

Services | Edit | cloud at edureka | Oregon | Help

Reserved Instances

IMAGES
AMIs
Bundle Tasks

ELASTIC BLOCK STORE
Volumes
Snapshots

NETWORK & SECURITY
Security Groups
Elastic IPs
Placement Groups
Load Balancers

Key Pairs
Network Interfaces

AUTO SCALING
Launch Configurations
Auto Scaling Groups

[Create Key Pair](#) [Import Key Pair](#) [Delete](#)

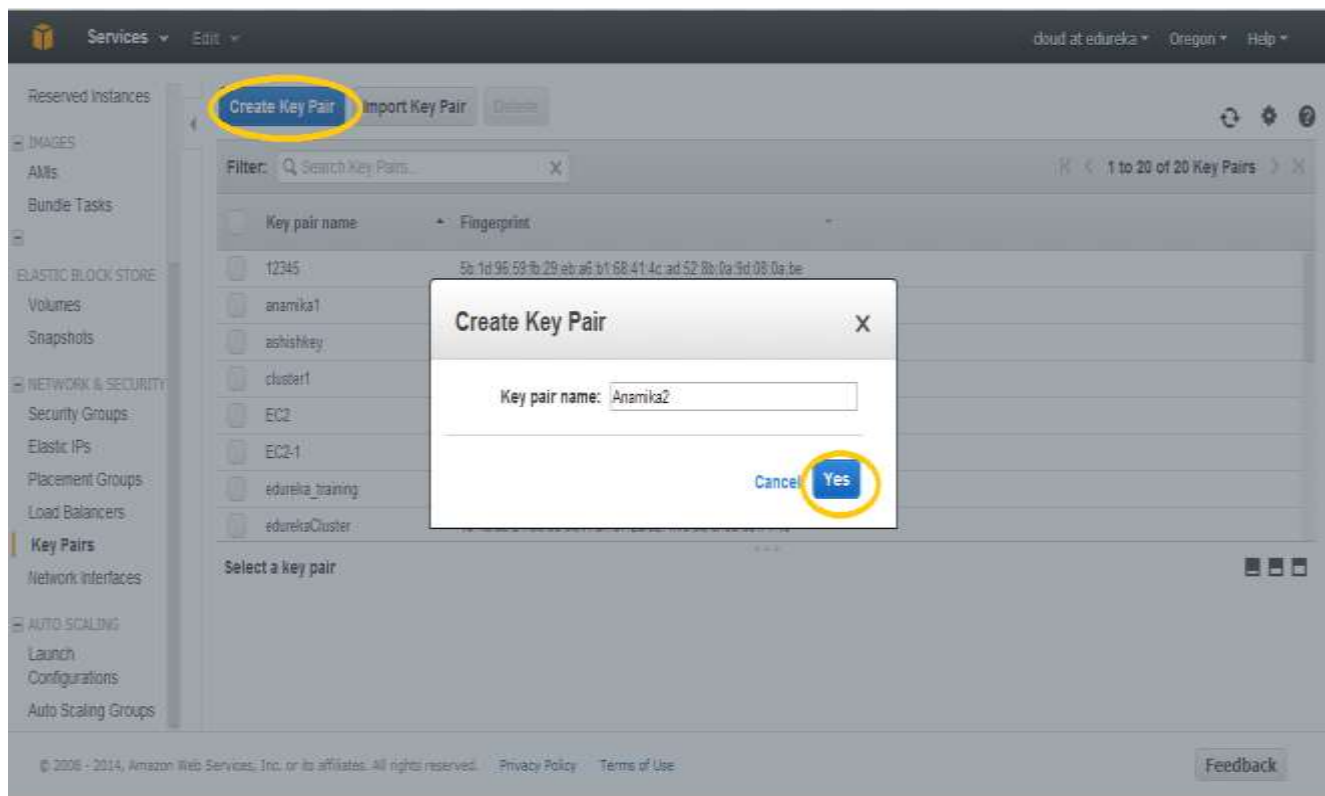
Filter: Search Key Pairs... X

Key pair name	Fingerprint
12345	5b 1d 96 59 fb 29 eb a6 b1 68 41 4c ad 52 0b 0a 9d 08 0a be
anamika1	72 ad 0e 4a 29 34 85 b7 65 6b 61 95 6c cb 2c 45 96 71 1d 68
ashishkey	16 6f 4e 73 d2 c5 fa 1e 71 52 06 eb da fe a4 7b 38 99 ff b6
cluster1	28 5b 85 e7 60 22 48 91 af 43 32 a8 86 99 3f f3 34 2e 3f 9e
EC2	3b 76 f3 00 59 1b 9c 19 48 cd 0a 24 89 0d 17 67 29 c6 77 55
EC2-1	78 bf c7 0a 7c aa 5c 0c 9a 14 f7 8c 3f 95 08 bc f9 00 7b 4d
edureka_training	9b 59 49 a9 fc ac 47 3b bc c5 32 b9 bb 04 03 0b 12 cc 1b 0b
edurekaCluster	19 1d a3 24 c6 55 96 84 a1 37 2b 32 1f 9e 3d 6f c8 63 74 45

Select a key pair

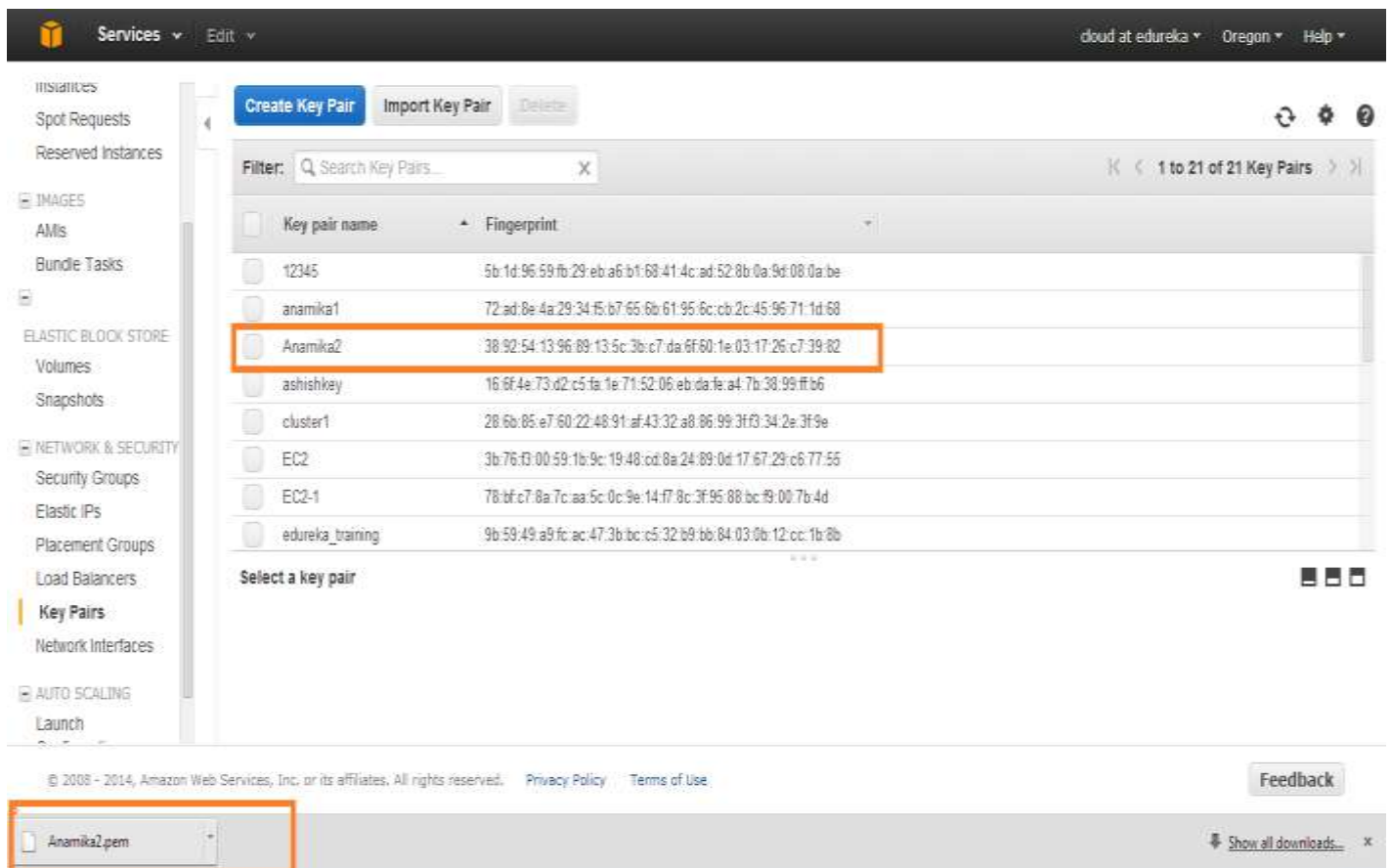
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5. Click on 'Create Key Pair' button. Enter the logical name of key pair you want to create.



6. Press the 'Yes' button.

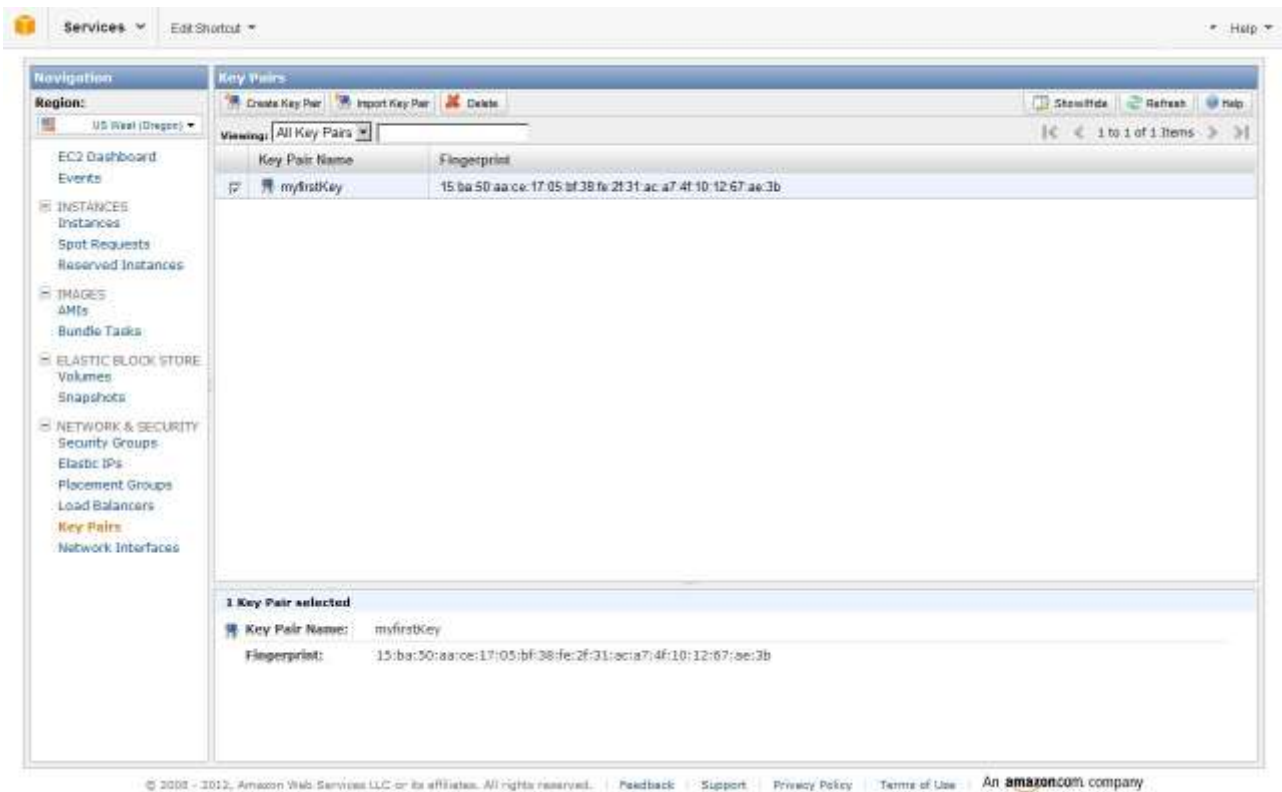
7. AWS will create a new key-pair with name 'Anamika2' and it will ask you to download the newly generated private key file (here Anamika2.pem).



NOTE:

1. If you lose the key you will never be able to get it back.
2. If you have launched an instance with a key pair and by mistake you lost the key, you will not be able to login to the same instance using same key.

9. Once key is saved, it will show the below screen in AWS console with key info.



10. As shown above you have created the key-pair file which can be used when you want to make secure instance launch.

Create new key pair by the AWS command line API:

1. The command to list all the key-pair is **ec2-describe-keypairs**.
2. For more options or help use **ec2-describe-keypairs -h**.
3. Use **ec2-add-keypair** to add new key pair. You will get the following output:


```
C:\Windows\system32\cmd.exe

C:\AWS>ec2-describe-keypairs --region us-west-2

C:\AWS>ec2-add-keypair --region us-west-2 mySecondKey
KEYPAIR mySecondKey      15:0f:87:40:c1:fe:76:cc:dd:ce:3d:a3:d6:7d:1c:e2:d5:b4:3e:b8
-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAoo7bBo6+oDc2d98HPUEunsngYHSBNW8zX+M/nBuAU5qPTzRS.jxD7Lgv9zfpg
PakGZq/GycEeuf8UoqgL2UHZjRA1gU2q6/L13DE2iCSbrCa29i7UfXhIc7UHeemEpJSGEzuUkpRH
cxcWeb5WmUIKQ8fs/WzGWzK7WUccDKloRZvXvGrpzB6uyFuQc1HXHPZzTU1cgkxi1HNFaM9+zHg+
6voAZl6mzMNcvpmf6TQUgCC4vB1ro119508d1ThY7qbPENwjtAIXan4QFoDD3dicckqp5rRgo+f
832+UkpjbB/bmi/f7+0E+gInNAudifQe4BRUFu8miqWhqFRPAeMkQQIDAQABAoIBAFAvXgFG1JnhY
mXKCUJG8GP3nsH7Mda/fgtQjDUZDGBPmpB8ovZhNDMzIQ54zXlqX+6Dao0JuNND7GAqK5hNjUhmH
z09y11X1kA1W2St0G2vY97gBX1aANdcBqXasg5+Etnd5S51klzYYDj+8USsMmfYPp4rLAQgXkbfX
wBw7Pk1MytMLR2B4Ynd3Gg85A76b0I1wUaUe2fPR80BGP8WwhQ8Rd60SEs9cjavjHwudiU7QUOB+
yzhrIdbEomqILQiaLKEPuWbst9LWazHU1GmcqKUQzphF64tCS0jTemEodm4Jxe/2Zi2sgNWtoqe1
pHQZ3SNhwMS2Mm7Z01zzUGenI30CgYEA307zPTEBxJfUuGPq8vGFUzH1YeUHMhIFbcdoPDwZjMyq
MoWINBmUUUhLWPWhSNR/7q6XXCoSwk/cQxmRZzonLeOuBuQb0sJSRc1wHu5iAU1cS23nUNkkwFOe
ZsEPJd7tJMYbBnRMA66UkP82yseMfBLltKUMpkR7DqiigrMamrMCgYEAulshLGxEJQHFeLreNEiJ
3Lycf1nLWurUED1ettI3MtR2BNqKdySOH5aWN4ZlkgZHSpN9Of034gKz6vNh60bWdu6+0smUFuHm
7mnMhTcHS5S1XrMLCsSu2XhnG8J72ngsp4JWHZPAhggeFv5+PyLZ516WHpDp0tbYH/JTQU0UDzsC
gYEAQqB4ltmbC+0YsItCIjE1hPwrLMAHhk3DnAylI4zwjUXLwUagCUYeo+SZya7ELHlehQYvWtoI
TSALI+Ey0RwK0MkSSQLwF7uSn+x05anmFDfPYCrC083G6aOfKwcLbs7jTMR9aYoU2B4d5cmw7xDM
uo4DCy1a9C65ryNjMmUEnM8CgYEAq1sAGmHmcYYLBPCejGD7UgQ9c9WcJkKhFS9k0++bcixytUEq
bvvPyG6aZ6u9aBfBOBUx1pj6autZmaBf1PquU/w8COKpLTnZJ30j72t8icUpf6Zgo71ln4GHkELb
gh++8WoeWu9kgah2qjjuI7wvQXuZ89s5RPoNnDaJkQ8MX10CgYAHOWYG7+QikwboIQ+Iy/OoAwMz
BD5sR1RyCGq0hUauFpbdo0HBk89LcKGe7g1pydQjTqpjGw2a7f88LhwzgeUF7ix7dps+tYP+ILrE
Z/Z0UD3HChfy001JP1N73Bw9tYHwkbetbZ192f6YfEUd0+k7TUIsoTro19wAnDCR8Cj4Iw==
-----END RSA PRIVATE KEY-----

C:\AWS>ec2-describe-keypairs --region us-west-2
KEYPAIR mySecondKey      15:0f:87:40:c1:fe:76:cc:dd:ce:3d:a3:d6:7d:1c:e2:d5:b4:3e:b8
```

- 11. Copy all the content from 'BEGIN RSA PRIVATE KEY' till 'END RSA PRIVATE KEY' including both lines and copy to some text file.
- 12. Save that file as mySecondKey.pem.
- 13. This will work as your .pem file when you want to use to login to an EC2 instance.