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S Thenmozhi

Department of Computer Applications

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Cloud Computing Essentials

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AWS IAM - Key Pair



AWS uses **public-key cryptography** to encrypt and decrypt login information.

A key pair -> **Private key+ Public Key**

Prove your identity with the keys to access any resource

Private key is used instead of password

Anyone who possesses your private keys can connect to your instance

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AWS IAM - Key Pair



To acquire a Virtual machine (EC2) in AWS you require a key-pair

AWS only stores the public key, and the user stores the private key

The keys that Amazon EC2 uses are 2048-bit SSH-2 RSA keys.

You can have up to 5,000 key pairs per Region

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AWS IAM – Key Pairs



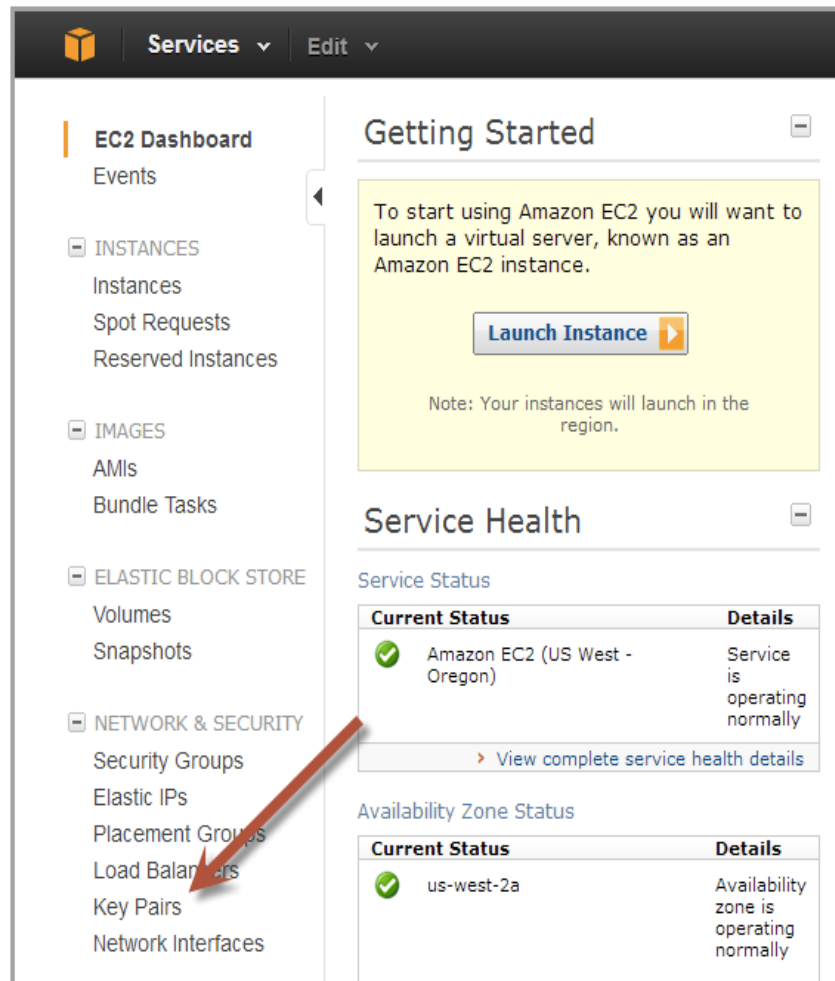
There are three options for creating a key pair:

- Generate a key pair using the key pair wizard
- Generate a key pair while creating Amazon EC2
- Generate using a third-party tool such as OpenSSH, then import the public key to Amazon EC2

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Creating a Key Pair

1. Open the Amazon EC2 console at <http://console.aws.amazon.com/ec2/>
2. On the navigation bar select region for the key pair
3. Click **Key Pairs** in the navigation pane to display the list of key pairs associated with the account



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Creating a Key Pair



4. Click **Create Key Pair**
5. Enter a name for the key pair in the **Key Pair Name (Ex: my-key-pair)** field of the dialog box and click **Create**
6. The private key file, will be available in **.pem and .ppk** format. If your machine is **Linux or mac** machine download **.pem**. If **windows**, download **.ppk** file.
7. Linux and MAC users - Change the permission of the file using the command

chmod 400 my-key-pair.pem



THANK YOU

S Thenmozhi

Department of Computer Applications

thenmozhis@pes.edu

+91 80 6666 3333 Extn 393