

1. Login into Amazon AWS using your login and password
2. **First Time:** Launch an EC2 instance (if not already running). **Please make sure, that you launch only one instance.** See point 11 to see how to launch an instance
 - a. For the first time, you may need to create your own key-pair for login, if you don't have one already. See point number 8 for details.
3. Login using ssh
(<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AccessingInstancesLinux.html>)
 - a. If you are using Linux / Mac, you can use terminal to login into AWS instance
 - i. Command: *ssh from terminal: ssh -I <location of key-pair file> ec2-user@<public-dns of instance>*
 - b. If you are using Windows then you can use Putty(<http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>),
 - i. Please follow instructions given in the following page to login into your instance
<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/putty.html>
 - c. Public DNS of a *running* instance can be obtained as shown in point number 9.
 - d. Sorry, there are no easy ways to access Amazon AWS using a GUI
4. Start Postgres if not started already using the command *sudo service postgresql start*
5. Login into psql using the following command
 - a. *psql -U ec2user -d dse201*
 - b. password: ec2user
 - c. Check the tables using command \dt
6. See the documentation of data generator to generate data for the database
7. Run your PSQL code on the psql prompt

8. Generating key value pair
 - a. Go to EC2 in the AWS console and click on Key Pairs

EC2 Dashboard

- Events
- Tags
- Reports
- Limits
- INSTANCES
 - Instances
 - Spot Requests
 - 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

Resources

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

1 Running Instances	0 Elastic IPs
2 Volumes	2 Snapshots
6 Key Pairs	0 Load Balancers
0 Placement Groups	6 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):
No events

Availability Zone Status:

- us-west-2a: This service is operating normally
- us-west-2a: Availability zone is operating normally
- us-west-2b: Availability zone is operating normally
- us-west-2c: Availability zone is operating normally

[Service Health Dashboard](#)

Account Attributes

Supported Platforms

VPC

Default VPC

vpc-75438310

Additional Information

[Getting Started Guide](#)

[Documentation](#)

[All EC2 Resources](#)

[Forums](#)

[Pricing](#)

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AWS Marketplace

Find **free software trial** products in the AWS Marketplace from the [EC2 Launch Wizard](#). Or try these popular AMIs:

[Vyatta Virtual Router/Firewall/VPN](#)

Provided by Vyatta, Inc.
Rating ★★★★★
Pay by the hour for software and AWS usage
[View all Networking](#)

[Alert Logic Threat Manager for AWS](#)

Provided by Alert Logic, Inc.
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Pin/virtual hv Orchestrator

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b. Please do not delete any other key. Click on create Key Pair

EC2 Dashboard

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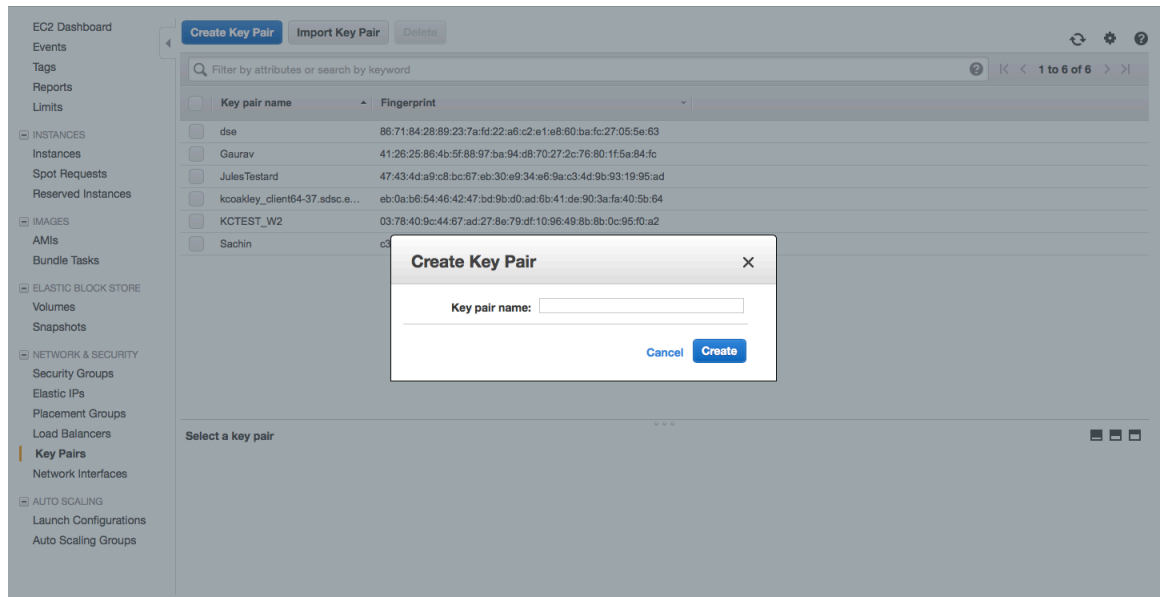
Create Key Pair [Import Key Pair](#) [Delete](#)

Filter by attributes or search by keyword

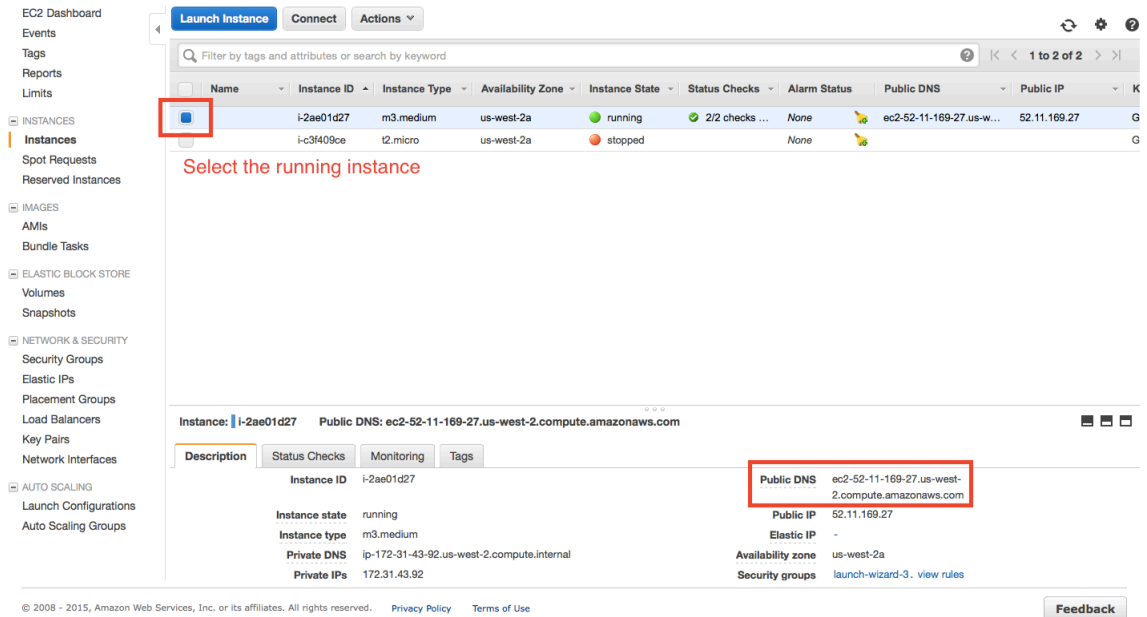
<input type="checkbox"/>	Key pair name	Fingerprint
<input type="checkbox"/>	dse	86:71:84:28:89:23:7a:fd:22:a6:c2:e1:e8:60:ba:fc:27:05:5e:63
<input type="checkbox"/>	Gaurav	41:26:25:86:4b:5f:88:97:ba:94:d8:70:27:2c:76:80:1f:5a:84:1c
<input type="checkbox"/>	JulesTestard	47:43:4d:a9:c8:bc:67:eb:30:e9:34:e6:9a:c3:4d:9b:93:19:95:ad
<input type="checkbox"/>	kooskey_client64-37.sdsc.e...	eb:0a:b6:54:46:42:47:bd:9b:d0:ad:6b:41:de:90:3a:fa:40:5b:64
<input type="checkbox"/>	KCTEST_W2	03:78:40:9c:44:67:ad:27:8e:79:df:10:96:49:8b:8b:0c:95:f0:a2
<input type="checkbox"/>	Sachin	c3:c0:1d:d0:2c:4f:85:07:eb:47:0e:e5:27:0b:85:6a:aa:cc:6f:60

Select a key pair

c. Insert Key Pair Name and press create



- d. This will create a file <key-name.pem>. Store it in a safe location and share it with your partner.
 - e. On linux and mac run the following command: *chmod 400 <key-pair file location>*
9. Public DNS of a EC2 instance can be obtained from the Running instance dashboard as shown below. You will have to select the running instance before the instance information shows up in the lower pane.



10. You may need to transfer files from your PC to AWS instance
- a. Linux and Mac users can use scp to transfer files into AWS (*scp -i <key-pair file location> SampleFile.txt ec2-user@ec2-198-51-100-1.compute-1.amazonaws.com:~*)

- b. Windows users can use Putty to do so
(<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/putty.html>)

11. You can launch a new instance as shown below

- a. Go to EC2 Dashboard from AWS console and click on Launch Instance

EC2 Dashboard

Resources

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

- 1 Running Instances
- 2 Volumes
- 6 Key Pairs
- 0 Placement Groups
- 0 Elastic IPs
- 2 Snapshots
- 0 Load Balancers
- 6 Security Groups

Launch Instance

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

US West (Oregon):

No events

Scheduled Events

US West (Oregon):

No events

Account Attributes

Supported Platforms

VPC

Default VPC

vpc-75438310

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ColdFusion 11

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Feedback

- b. Click on “My AMI” on the left and then click Select against mas-dae-dse201

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

Cancel and Exit

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Quick Start

My AMIs

AWS Marketplace

Community AMIs

Ownership

☒ Owned by me

☐ Shared with me

Architecture

☐ 32-bit

☐ 64-bit

Root device type

☐ EBS

☐ Instance store

Search my AMIs

DSE200HVM - ami-5788de67

Root device type: ebs Virtualization type: hvm Owner: 846273844940

Select

64-bit

mas-dae-dse201 - ami-bb90b38b

postgres, python, java

Root device type: ebs Virtualization type: hvm Owner: 846273844940

Select

64-bit

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Feedback

- c. Select m4.medium as the instance type and click on “Next: Configure Instance Details”

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 of CPU, memory, storage, and networking capacity, and give you the flexibility to choose 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: m3.medium (3 ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon E5-2670v2, 3.75 GiB memory, 1 x 4 GiB Storage Capacity)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
<input type="checkbox"/>	General purpose	t2.micro <small>Free tier eligible</small>	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 checked="" type="checkbox"/>	General purpose	m3.medium	1	3.75	1 x 4 (SSD)	-	Moderate
<input type="checkbox"/>	General purpose	m3.large	2	7.5	1 x 32 (SSD)	-	Moderate
<input type="checkbox"/>	General purpose	m3.xlarge	4	15	2 x 40 (SSD)	Yes	High
<input type="checkbox"/>	General purpose	m3.2xlarge	8	30	2 x 80 (SSD)	Yes	High
<input type="checkbox"/>	Compute optimized	c4.large	2	3.75	EBS only	Yes	Moderate
<input type="checkbox"/>	Compute optimized	c4.xlarge	4	7.5	EBS only	Yes	Moderate

Cancel Previous Review and Launch Next: Configure Instance Details

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- d. Select “Dedicated tenancy” in Tenancy drop down and click add storage

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

Purchasing option ☐ Request Spot Instances

Network vpc-75438310 (172.31.0.0/16) (default) Create new VPC

Subnet subnet-2e944b4b(172.31.32.0/20) | Default in us-west-2a 4089 IP Addresses available Create new subnet

Auto-assign Public IP Use subnet setting (Enable)

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 Dedicated tenancy (single-tenant hardware)
Additional charges will apply for dedicated tenancy.

Network interfaces

Cancel Previous Review and Launch Next: Add Storage

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- e. Input size as 16 and select “General Purpose SSD” from Volume Type and click “Review and Launch”

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.

Type ⓘ	Device ⓘ	Snapshot ⓘ	Size (GiB) ⓘ	Volume Type ⓘ	IOPS ⓘ	Delete on Termination ⓘ	Encrypted ⓘ
Root	/dev/xvda	snap-da4f2186	16	General Purpose (SSD) ⓘ	48 / 3000	<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

Feedback

f. Launch the instance

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](#)

⚠ Your instance configuration is not eligible for the free usage tier

To launch an instance that's eligible for the free usage tier, check your AMI selection, instance type, configuration options, or storage devices. Learn more about [free usage tier](#) eligibility and usage restrictions.

[Don't show me this again](#)

▼ AMI Details [Edit AMI](#)

 **mas-dae-dse201 - ami-bb90b38b**
postgres, python, java
Root Device Type: ebs Virtualization type: hvm

▼ Instance Type [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
m3.medium	3	1	3.75	1 x 4	-	Moderate

▼ Security Groups [Edit security groups](#)

Security group name launch-wizard-4
Description launch-wizard-4 created 2015-03-08T15:55:01.694-07:00

Cancel Previous **Launch**

Feedback