

How to create and connect an Amazon Instance

Log in to the AWS console.

The screenshot shows the AWS Management Console login page. At the top, there is a navigation bar with links for Contact Sales, Support, English, My Account, and Sign In to the Console. Below the navigation bar, there is a search bar and a menu with links for Products, Solutions, Pricing, Documentation, Learn, Partner Network, AWS Marketplace, Customer Enablement, Events, Explore More, and a magnifying glass icon for search. The main content area features a large blue background with a hexagonal pattern. In the center, the text "AWS Management Console" is displayed in a large, bold, white font. Below it, a smaller line of text reads "Everything you need to access and manage the AWS cloud — in one web interface". A prominent orange button with the text "Log back in" is centered below the main title. At the bottom, there is a section titled "Explore more from AWS" with four cards: 1) a server rack icon, 2) an AWS Graviton2 chip icon, 3) a brain icon, and 4) a database icon. A URL "https://console.aws.amazon.com/console/home?nc2=h_ct&src=header-signin" is visible at the bottom left of the page.

Use the credentials Davide will send to you ;)



Sign in as IAM user

Account ID (12 digits) or account alias

296601465489

IAM user name

sherine

Password

.....

Sign in

Sign in using root user email

Forgot password?

Move to Managed Databases

Run 6 popular relational database engines with ease using Amazon RDS



How the screen looks like after login (or something like that)

eu-west-2.console.aws.amazon.com/console/home?region=eu-west-2#

Services ▾ [Option+S] Sherine @ 2966-0146-5489 ▾ London ▾ Support ▾

AWS Management Console

AWS services

▼ All services

 Compute	 Machine Learning
EC2	Amazon SageMaker
 Lightsail	Amazon Augmented AI
Lambda	Amazon CodeGuru
Batch	Amazon DevOps Guru
Elastic Beanstalk	Amazon Comprehend
Serverless Application Repository	Amazon Forecast
AWS Outposts	Amazon Fraud Detector
EC2 Image Builder	Amazon Kendra
 	Amazon Lex
 Containers	Amazon Personalize
Elastic Container Registry	Amazon Polly

Stay connected to your AWS resources on-the-go

 AWS Console Mobile App now supports four additional regions. Download the AWS Console Mobile App to your iOS or Android mobile device. [Learn more](#)

Explore AWS

Amazon SageMaker Resources

Explore features, use cases, and tutorials for every developer. [Learn more](#)

Feedback English (US) ▾ © 2006 - 2021, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences

Click on EC2: I have 2 running instances, you should have 0. I just can't terminate these instances now.

eu-west-2.console.aws.amazon.com/ec2/v2/home?region=eu-west-2#Home:

Services ▾

Search for services, features, marketplace products, and docs [Option+S]

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New EC2 Experience Tell us what you think X

EC2 Dashboard New

Events

Tags

Limits

Instances

- Instances New
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances New
- Dedicated Hosts
- Capacity Reservations

Images

Resources

You are using the following Amazon EC2 resources in the Europe (London) Region:

Instances (running)	2	Dedicated Hosts	0
Elastic IPs	0	Instances	2
Key pairs	1	Load balancers	0
Placement groups	0	Security groups	29
Snapshots	0	Volumes	2

Account attributes

- Supported platforms ↗
 - VPC
- Default VPC ↗
vpc-2624744e
- Settings
- EBS encryption
- Zones
- Default credit specification
- Console experiments

Explore AWS X

Make sure you are usually on Europe/London (Other locations will crazy increase the bill, way too much)

AWS Management Console

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Search for services, features, marketplace products, and docs [Option+S]

AWS services

Recently visited services

- EC2

All services

Build a solution

Get started with simple wizards and automated workflows.

Launch a virtual machine

With EC2
2-3 minutes

Build a web app

With Elastic Beanstalk
6 minutes

Build using virtual servers

With Lightsail
1-2 minutes

Stay connected-on-the-go

AWS Connect additional Console mobile devices

Explore AWS

Automate Documentation

Extract text and millions of documents

Try AWS Gravity Free

See how running the best price per second

US East (Ohio) us-east-2

US West (N. California) us-west-1

US West (Oregon) us-west-2

Africa (Cape Town) af-south-1

Asia Pacific (Hong Kong) ap-east-1

Asia Pacific (Mumbai) ap-south-1

Asia Pacific (Osaka) ap-northeast-3

Asia Pacific (Seoul) ap-northeast-2

Asia Pacific (Singapore) ap-southeast-1

Asia Pacific (Sydney) ap-southeast-2

Asia Pacific (Tokyo) ap-northeast-1

Canada (Central) ca-central-1

Europe (Frankfurt) eu-central-1

Europe (Ireland) eu-west-1

Europe (London) eu-west-2

Europe (Milan) eu-south-1

Europe (Paris) eu-west-3

To create a new instance or do any work, we need to have a key pair: From Network and Security in the sidebar, choose key pair. I already have one, but you will have none. , but click on create key pair to create one.

The screenshot shows the AWS Management Console interface. On the left, there is a navigation sidebar with several sections:

- Elastic Block Store
- Volumes
- Snapshots
- Lifecycle Manager
- Network & Security** (this section is highlighted with a red box)
 - Security Groups New
 - Elastic IPs New
 - Placement Groups
 - Key Pairs** (this item is also highlighted with a red box)
 - Network Interfaces New
- Load Balancing
- Auto Scaling

The main content area displays a table titled "Key pairs (1)". The table has columns: Name, Fingerprint, and ID. There is one row with the following data:

<input type="checkbox"/>	Name	Fingerprint	ID
<input type="checkbox"/>	key1	c3:fb:b6:e4:33:16:99:b6:b7:37:df:e6:7...	key-07f1d72fb7f64596f

At the top right of the main area, there are buttons for "Actions" and "Create key pair". The "Create key pair" button is highlighted with a red box. There are also navigation controls (back, forward, search) and a settings gear icon.

Choose pem. Or chose ppk if you are using Putty for example

EC2 > Key pairs > Create key pair

Create key pair

Key pair

A key pair, consisting of a private key and a public key, is a set of security credentials that you use to prove your identity when connecting to an instance.

Name

key2

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

File format

pem

For use with OpenSSH

ppk

For use with PuTTY

Tags (Optional)

No tags associated with the resource.

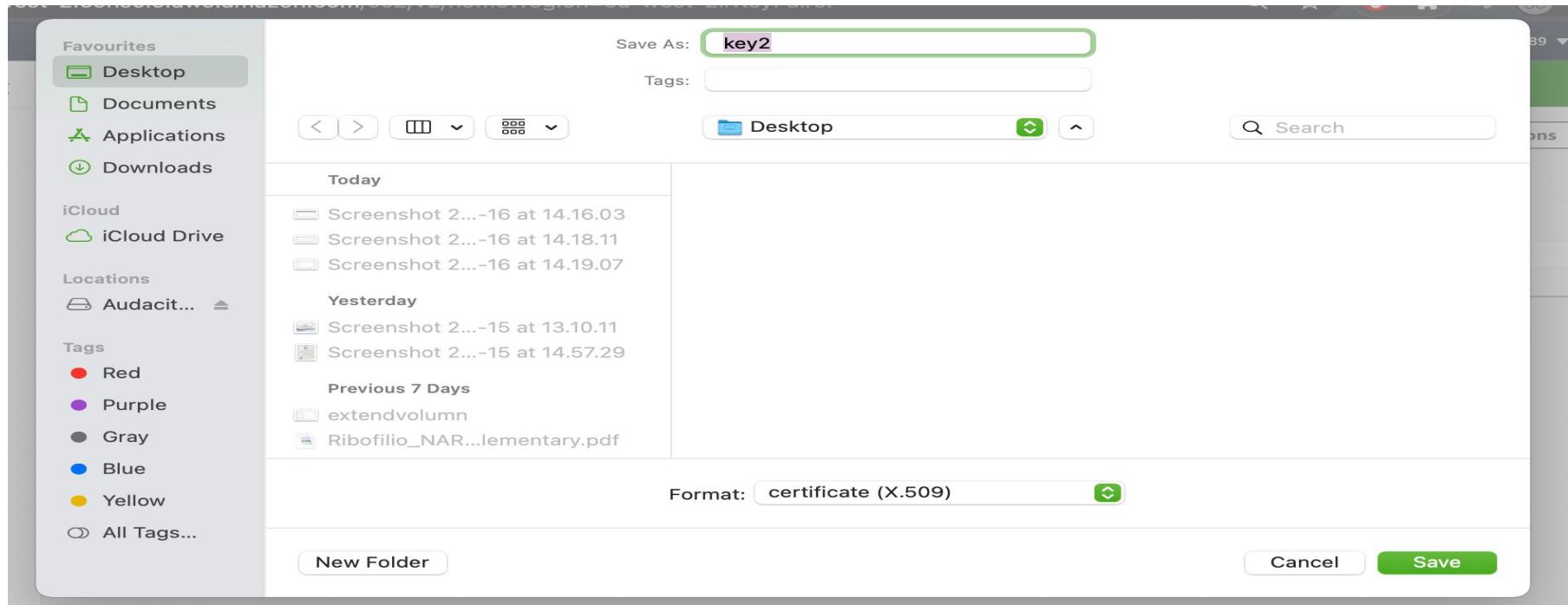
Add tag

You can add 50 more tags.

Cancel

Create key pair

Make sure you save the key pair in a known location and know its name, we will need it later.



Now, I have 2 keys created, the old and the new one. You will have one.

✓ Successfully created key pair

Key pairs (2)

<input type="checkbox"/>	Name	Fingerprint	ID
<input type="checkbox"/>	key1	c3:fb:b6:e4:33:16:99:b6:b7:37:df:e6:7...	key-07f1d72fb7f64596f
<input type="checkbox"/>	key2	22:8a:80:e2:0c:43:f6:cd:1c:e2:56:3c:ad:...	key-003de3583877381d1

Actions ▾ [Create key pair](#)

< 1 > ⚙

To create an instance, go to EC2 from the side bar again and click launch instance

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with options like EC2 Dashboard, Events, Tags, Limits, and Instances (selected). Under Instances, there are links for Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, and Capacity Reservations. The main area displays a table of instances:

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	-	i-073f14c5d0b4579c9	Running	c5.18xlarge	2/2 checks passed	No alarms	eu-west-2a	ec2-18-133-157-37.eu...
<input type="checkbox"/>	-	i-0363ca41aedd62c45	Running	r5a.16xlarge	2/2 checks passed	No alarms	eu-west-2b	ec2-18-134-181-86.eu...

A red box highlights the "Launch instances" button in the top right corner of the header. Below the table, it says "Select an instance above" and shows three small square icons.

You will see many types of instances, you can limit the search to linux to filter out windows instances. You can select the type of instance that suits you, some are designed to be capable of deep learning or high graphics. You can choose Red Hat, open SUSE, ..etc. I selected **amazon linux** for the purpose of the tutorial. But Amazon linux is a nice option too.

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 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.

Search for an AMI by entering a search term e.g. "Windows" X

Search by Systems Manager parameter K L 1 to 40 of 40 AMIs R > X

Quick Start	AMIs	Action
My AMIs		
AWS Marketplace		
Community AMIs		
<input type="checkbox"/> Free tier only (i)	Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0b6b51e397faf2316 (64-bit x86) / ami-0d780759d0b255a0c (64-bit Arm) Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is approaching end of life on December 31, 2020 and has been removed from this wizard. Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	Select <input checked="" type="radio"/> 64-bit (x86) <input type="radio"/> 64-bit (Arm)
<input type="checkbox"/> Free tier only (i)	Red Hat Enterprise Linux 8 (HVM), SSD Volume Type - ami-06178cf087598769c (64-bit x86) / ami-025e95bc52b79028e (64-bit Arm) Red Hat Enterprise Linux version 8 (HVM), EBS General Purpose (SSD) Volume Type Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	Select <input checked="" type="radio"/> 64-bit (x86) <input type="radio"/> 64-bit (Arm)
<input type="checkbox"/> Free tier only (i)	SUSE Linux Enterprise Server 15 SP2 (HVM), SSD Volume Type - ami-0d7db5fc4b5075b0d (64-bit x86) / ami-0fdd4500e38324e55 (64-bit Arm) SUSE Linux Enterprise Server 15 Service Pack 2 (HVM), EBS General Purpose (SSD) Volume Type. Amazon EC2 AMI Tools preinstalled; Apache 2.2, MySQL 5.5, PHP 5.3, and Ruby 1.8.7 available.	Select <input checked="" type="radio"/> 64-bit (x86) <input type="radio"/> 64-bit (Arm)

Here you need to select the configurations you need, the memory, no. of vCPU that suits your work,etc. I selected free tier instance for the purpose of the tutorial which is limited. But you need to select something that suits your work. You can now launch the instance, but it is better to go for next configuration:

Step 2: Choose an Instance Type

Filter by: All instance families ▾ Current generation ▾ Show/Hide Columns

Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	t2	t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t2	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t3	t3.nano	2	0.5	EBS only	Yes	Up to 1 Gbit	Yes

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

Select CPUs, we don't have to settle for the high number of CPUs of the instance. I usually decrease this no. of CPU a little bit unless I really really need this number. Although amazon keep promising they charge per usage. I also check **protect against accidental termination** for very important work. The simplest settings as a start to select CPU and protect against accidental terminations

Step 3: Configure Instance Details

The screenshot shows the 'Configure Instance Details' step of an AWS instance creation wizard. The configuration options are as follows:

- Network:** vpc-2624744e (default) - Subnet: No preference (default subnet in any Availability Zone)
- Auto-assign Public IP:** Use subnet setting (Enable)
- Placement group:** Add instance to placement group
- Capacity Reservation:** Open
- Domain join directory:** No directory
- IAM role:** None
- CPU options:** Specify CPU options
- Shutdown behavior:** Stop
- Stop - Hibernate behavior:** Enable hibernation as an additional stop behavior
- Enable termination protection:** Protect against accidental termination
- Monitoring:** Enable CloudWatch detailed monitoring

At the bottom, there are navigation buttons: Cancel, Previous, Review and Launch (highlighted in blue), and Next: Add Storage.

When we selected specify CPU, we can choose what we need. I choose 1 for the tutorial. You might need more.

Step 3: Configure Instance Details

Auto-assign Public IP Use subnet setting (Enable)

Placement group Add instance to placement group

Capacity Reservation Open

Domain join directory No directory C Create new directory

IAM role None C Create new IAM role

CPU options Specify CPU options

Core count 1

Threads per core 1

Number of vCPUs 1

Shutdown behavior Stop

Stop - Hibernate behavior Enable hibernation as an additional stop behavior

Enable termination protection Protect against accidental termination

Monitoring Enable CloudWatch detailed monitoring
Additional charges apply.

Check to protect against accidental termination

Cancel

Previous

Review and Launch

Next: Add Storage

Then click storage configuration or next: Here we will have a volume attached automatically to the instance, basically 8GB (too small), I usually increase it. Also I usually unselect the delete on termination. I keep the volume when the instance is terminated till I store it safely.

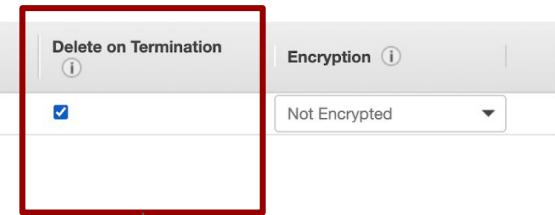
Step 4: Add Storage

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	Encryption
Root	/dev/xvda	snap-0e9a551f38200c60c	8	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.



Unselect if you don't want the volume to be deleted upon termination of the instance.

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 i	Device i	Snapshot i	Size (GiB) i	Volume Type i	IOPS i	Throughput (MB/s) i	Delete on Termination i	Encryption i
Root	/dev/xvda	snap-0e9a551f38200c60c	1000	General Purpose SSD (gp2)	3000	N/A	<input 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.

Here I increased the volume to 1000 GB and unselect the delete on termination

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Tags](#)

Step 7: Review Instance Launch

Amazon Linux 2 AMI (HVM), SSD volume type - ami-0dd051e397af2310

Free tier eligible

Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is a...

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
t2.micro	-	1	1	EBS only	-	Low to Moderate

Security Groups

Edit security groups

Security group name: launch-wizard-29
Description: launch-wizard-29 created 2021-03-16T14:25:52.311+00:00

Type <i>i</i>	Protocol <i>i</i>	Port Range <i>i</i>	Source <i>i</i>	Description <i>i</i>
SSH	TCP	22	0.0.0.0/0	

Instance Details

Edit instance details

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

We can add security groups, but skipping this now.
We can now launch the instance.

It will ask for the key pair. We can choose the one we just created.

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

Step 7: Review Instance Launch

Root device type: ebs Virtualization type: hvm

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)
t2.micro	-	1	1

Security Groups

Security group name	Description
launch-wizard-29	launch-wizard-29 created 2021-01-11

Type (i) Protocol (i)
SSH TCP

Instance Details

Storage

Tags

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](#).

Choose an existing key pair
Select a key pair
key2

I acknowledge that I have access to the selected private key file (key2.pem), and that without this file, I won't be able to log into my instance.

Cancel Launch Instances

Performance
Moderate

Edit instance type Edit security groups Edit instance details Edit storage Edit tags

Cancel Previous Launch

The instance is ready !!

Launch Status

Your instances are now launching

The following instance launches have been initiated: [i-07b123173140ed4e5](#) [View launch log](#)

Get notified of estimated charges

Create [billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click [View Instances](#) to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

▼ Here are some helpful resources to get you started

- [How to connect to your Linux instance](#)
- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

- [Create status check alarms](#) to be notified when these instances fail status checks. (Additional charges may apply)
- [Create and attach additional EBS volumes](#) (Additional charges may apply)
- [...](#)

If you go to EC2, now you can see I have 3 instances running instead of the 2 instances I started with.

The screenshot shows the AWS EC2 Dashboard. On the left, a sidebar lists navigation options: New EC2 Experience (with a feedback link), EC2 Dashboard (selected), Events, Tags, Limits, Instances (expanded, showing Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations), Images (AMIs), and Elastic Block Store (Volumes, Snapshots). The main content area has a header "Resources" with "C" and "G" buttons. It displays the following resource counts in the Europe (London) Region:

Instances (running)	3	Dedicated Hosts	0
Elastic IPs	0	Instances	3
Key pairs	2	Load balancers	0
Placement groups	0	Security groups	30
Snapshots	0	Volumes	3

A callout box provides information about deploying Microsoft SQL Server Always On availability groups using the AWS Launch Wizard for SQL Server, with a "Learn more" link and a close button.

Below the resources section are two cards: "Launch instance" (instructions to start an instance, with a "Launch instance" button) and "Service health" (link to the Service Health Dashboard).

The right side of the dashboard includes "Account attributes" (Supported platforms: VPC, Default VPC: vpc-2624744e, Settings, EBS encryption, Zones, Default credit specification, Console experiments) and "Explore AWS" sections (Save up to 90% on EC2 with Spot Instances, Optimize price-performance by combining EC2 purchase options in a single EC2 ASG, Enable Best Price-Performance with AWS Graviton2).

New EC2 Experience [Tell us what you think](#)

EC2 Dashboard [New](#)

Events

Tags

Limits

Instances

Instances [New](#)

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances [New](#)

Dedicated Hosts

Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Snapshots

Instances (3) [Info](#)

Connect Instance state Actions Launch instances

Filter instances

Instance state: running [X](#) Clear filters

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	-	i-073f14c5d0b4579c9	Running	c5.18xlarge	2/2 checks passed	No alarms	eu-west-2a	ec2-18-133-157-37.eu...
<input type="checkbox"/>	-	i-0363ca41aedd62c45	Running	r5a.16xlarge	2/2 checks passed	No alarms	eu-west-2b	ec2-18-134-181-86.eu...
<input type="checkbox"/>	-	i-07b123173140ed4e5	Running	t2.micro	Initializing	No alarms	eu-west-2c	ec2-18-133-121-130.eu...

Select an instance above

Click on the instance running: You can see the type , name details of the instances running. Scroll to the end to see zone, date created, click on the instance name to see more details.

Instances (1/3) Info								
	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/> - i-073f14c5d0b4579c9 Running   c5.18xlarge 2/2 checks passed No alarms  eu-west-2a ec2-18-133-157-37.eu...								
<input type="checkbox"/> - i-0363ca41aedd62c45 Running   r5a.16xlarge 2/2 checks passed No alarms  eu-west-2b ec2-18-134-181-86.eu...								
<input checked="" type="checkbox"/>	-	i-07b123173140ed4e5	Running   t2.micro 2/2 checks passed No alarms  eu-west-2c ec2-18-133-121-130.eu...					

Click on the instance you will use and click connect: You will be able to see shortcut command of connecting to this instance from your shell.

Connect to instance [Info](#)

Connect to your instance i-07b123173140ed4e5 using any of these options

EC2 Instance Connect | Session Manager **SSH client**

Instance ID
i-07b123173140ed4e5

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is key1.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
 chmod 400 key1.pem
4. Connect to your instance using its Public DNS:
 ec2-18-133-121-130.eu-west-2.compute.amazonaws.com

Example:
 ssh -i "key1.pem" ec2-user@ec2-18-133-121-130.eu-west-2.compute.amazonaws.com

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel

Click ssh client tab

I actually created the instance with key1, you will need the key used in the instance creation

Copy the command in the red rectangle in the previous slide in the shell, make sure the key you used to create the instance exist in the directory.

Now we are connected to the instance. Work in your instance as you do in HPC etc. Based on the instance you selected, some instances come with preinstalled stuff, others are plain and you indeed to install what you need.

I am on my mac

```
(base) Sherines-MacBook:aws sherine$ ssh -i "key1.pem" ec2-user@ec2-18-133-121-130.eu-west-2.compute.amazonaws.com
```

```
--|  --|_ )  
-| (   /     Amazon Linux 2 AMI  
---\_\_|\___|
```

```
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-172-31-9-8 ~]$
```

We are on the instance now :)

The goal of all previous steps, is to have our instance connected where we can work on it as we do on HPC, linux machine, etc.

I have now 3 instances running

Instances (1/3) Info						C	Connect	Instance state ▲	Actions ▼	Launch instances	▼
	Name	Instance ID	Instance state	Instance type	Status check						
<input type="checkbox"/>	-	i-073f14c5d0b4579c9	✓ Running	QQ	c5.18xlarge	✓ 2/2 checks passed		Stop instance			
<input type="checkbox"/>	-	i-0363ca41aedd62c45	✓ Running	QQ	r5a.16xlarge	✓ 2/2 checks passed		Start instance			
<input checked="" type="checkbox"/>	-	i-07b123173140ed4e5	✓ Running	QQ	t2.micro	✓ 2/2 checks passed		Reboot instance			

availability Zone ▾	Public IPv4 DNS ▾
eu-west-2a	ec2-18-133-157-37.eu...
eu-west-2b	ec2-18-134-181-86.eu...
eu-west-2c	ec2-18-133-121-130.eu...

Select the instance then instance state, to see lots of actions to do on the instance like stop, terminate, reboot, ..etc. I will click terminate to end the instance used for the tutorial for now.

Successfully terminated i-07b123173140ed4e5

Instances (1/3) [Info](#)

Filter instances

Name	Instance ID	Instance state	Instance type	Status check
-	i-073f14c5d0b4579c9	Running	c5.18xlarge	2/2 checks p.
-	i-0363ca41aedd62c45	Running	r5a.16xlarge	2/2 checks p.
<input checked="" type="checkbox"/>	i-07b123173140ed4e5	Shutting-down	t2.micro	2/2 checks p.

Instance state ▲

Stop instance

Start instance

Reboot instance

Hibernate instance

Terminate instance

I terminated the instance: When you terminate an instance make sure you check after a while it is actually terminated and you see “successfully terminated” sometimes there is an error and you will still be charged for the instance needlessly if it is not terminated successfully.

The screenshot shows the AWS EC2 Instances page. At the top, there is a search bar and a notification bar with the message "Successfully terminated i-07b123173140ed4e5". Below the header, there is a green banner with the same message. The main area displays a table of instances:

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	-	i-073f14c5d0b4579c9	Running	c5.18xlarge	2/2 checks passed	No alarms	eu-west-2a	ec2-18-133-157-37.eu...
<input type="checkbox"/>	-	i-0363ca41aeedd62c45	Running	r5a.16xlarge	2/2 checks passed	No alarms	eu-west-2b	ec2-18-134-181-86.eu...

Please don't forget on any step to make sure we are connected in London to avoid needless CRAZY bills.

AWS Management Console

AWS services

- Recently visited services
 - EC2
- All services

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With Elastic Beanstalk
6 minutes


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With Lightsail
1-2 minutes


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I will talk later about managing volumes, increasing the volume of an instance and resizing the volume from your instance command line.