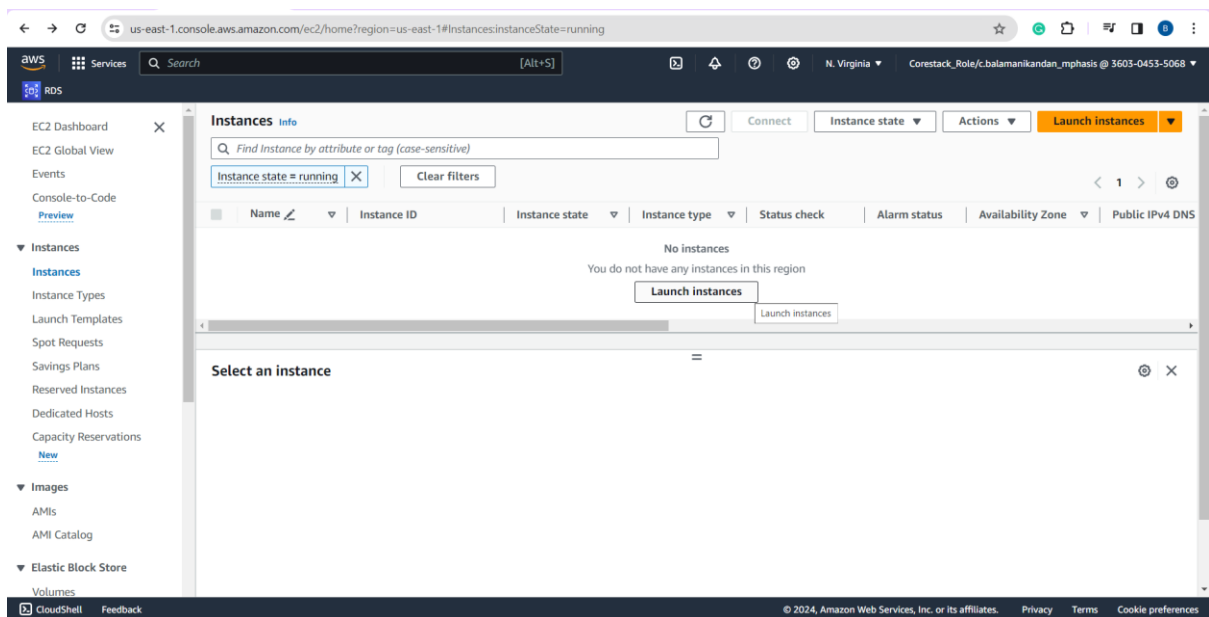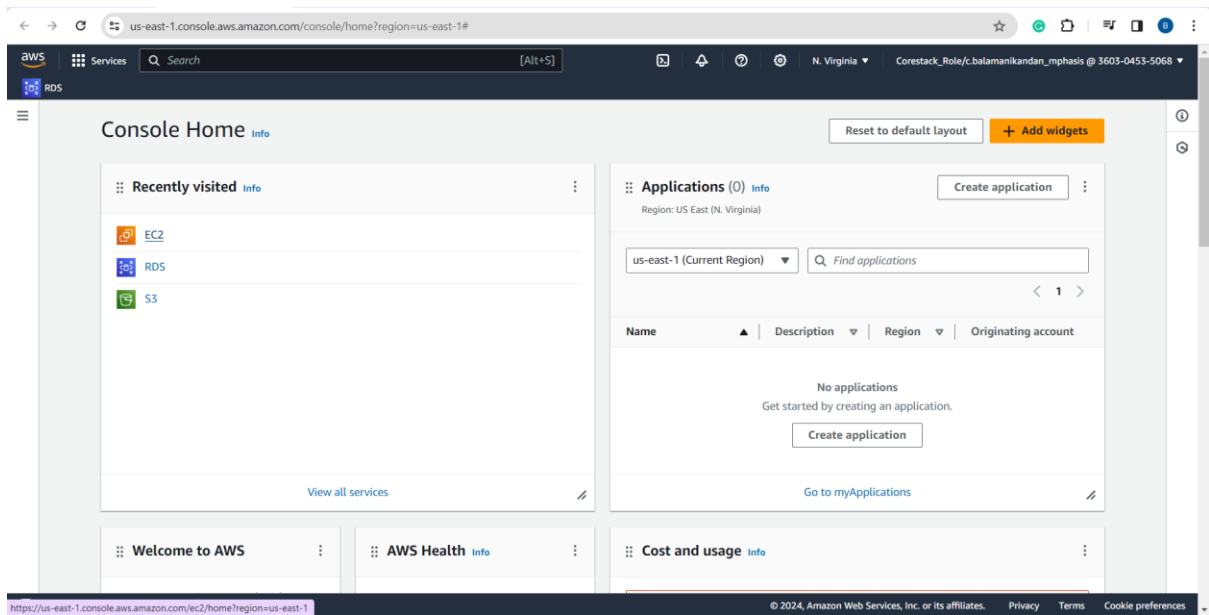# Assisted Practice Project1: Launch and Connect to an EC2 Linux Instance
C Balamanikandan

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name

newec2instance

Add additional tags

▼ Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

🔍 Search our full catalog including 1000s of application and OS images

---

▼ Summary

Number of instances Info

1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.3.2...read more
ami-0005e0cfe09cc9050

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

ⓘ **Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which ✕

▼ Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

🔍 Search our full catalog including 1000s of application and OS images

AMI from catalog   Quick Start

Amazon Machine Image (AMI)
amzn2-ami-kernel-5.10-hvm-2.0.20231218.0-x86_64-gp2
ami-00b8917ae86a424c9

[Verified provider] [Free tier eligible]

🔍 **Browse more AMIs**
Including AMIs from AWS, Marketplace and the Community

Catalog	Published	Architecture	Virtualization	Root device type	ENA Enabled
Quickstart AMIs	2023-12-18T19:04:26.000Z	x86_64	hvm	ebs	Yes

▼ Summary

Number of instances Info

1

Software Image (AMI)
Amazon Linux 2 AMI (HVM) - Ker...read more
ami-00b8917ae86a424c9

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

ⓘ **Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS ✕

▼ Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - _required_

| Proceed without a key pair (Not recommended) | Default value ▼ |

🔄 **Create new key pair**

▼ Network settings Info

VPC - *required*   Info

vpc-0f0b16d66e1b895e8	(default) ▼
172.31.0.0/16	

⟳

Subnet   Info

No preference	▼

⟳ Create new subnet ⬀

Auto-assign public IP   Info

Enable	▼

Firewall (security groups)   Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

● Create security group	○ Select existing security group

Security group name - *required*

launch-wizard-1

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and ._-:/()#,@[]+=&;{}!$*

Description - *required*   Info

launch-wizard-1 created 2024-01-10T13:58:03.951Z

Inbound Security Group Rules

Inbound Security Group Rules

▼ Security group rule 1 (TCP, 22, 0.0.0.0/0)   [Remove]

Type Info	Protocol Info	Port range Info
ssh ▼	TCP	22

Source type Info	Source Info	Description - *optional* Info
Anywhere ▼	🔍 Add CIDR, prefix list or security	e.g. SSH for admin desktop
	0.0.0.0/0 ✕	

▼ Security group rule 2 (All, All, 0.0.0.0/0)   [Remove]

Type Info	Protocol Info	Port range Info
All traffic ▼	All	All

Source type Info	Source Info	Description - *optional* Info
Anywhere ▼	🔍 Add CIDR, prefix list or security	e.g. SSH for admin desktop
	0.0.0.0/0 ✕	

⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting   ✕
security group rules to allow access from known IP addresses only.

Configure storage Info   Advanced

1x 30 GiB gp2   Root volume (Not encrypted)

ⓘ Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage   ✕

Add new volume

⟳ Click refresh to view backup information
The tags that you assign determine whether the instance will be backed up by any
Data Lifecycle Manager policies.

0 x File systems   Edit

t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 30 GiB

ⓘ **Free tier:** In your first year includes   ✕
750 hours of t2.micro (or t3.micro in
the Regions in which t2.micro is
unavailable) instance usage on free
tier AMIs per month, 30 GiB of EBS
storage, 2 million IOs, 1 GB of
snapshots, and 100 GB of bandwidth
to the internet.

Cancel   Launch instance

i-0b189f14cb7d0a7a6 (newec2instance)

PublicIPs: 34.207.76.219   PrivateIPs: 172.31.37.127

aws ::: Services Q Search   [Alt+S]   N. Virginia ▼   Corestack_Role/c.balamanikandan_mphasis @ 3603-0453-5068 ▼

RDS

```
        ~~._.  _/
       _/ _/           Amazon Linux 2023, GA and supported until 2028-03-15.
     /m/'              https://aws.amazon.com/linux/amazon-linux-2023/

20 package(s) needed for security, out of 22 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-37-127 ~]$ sudo -i
[root@ip-172-31-37-127 ~]# yum install httpd -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package httpd.x86_64 0:2.4.58-1.amzn2 will be installed
--> Processing Dependency: httpd-filesystem = 2.4.58-1.amzn2 for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: httpd-tools = 2.4.58-1.amzn2 for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.58-1.amzn2.x86_64
--> Running transaction check
---> Package apr.x86_64 0:1.7.2-1.amzn2 will be installed
---> Package apr-util.x86_64 0:1.6.3-1.amzn2.0.1 will be installed
--> Processing Dependency: apr-util-bdb(x86-64) = 1.6.3-1.amzn2.0.1 for package: apr-util-1.6.3-1.amzn2.0.1.x86_64
---> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be installed
---> Package httpd-filesystem.noarch 0:2.4.58-1.amzn2 will be installed
---> Package httpd-tools.x86_64 0:2.4.58-1.amzn2 will be installed
```

aws ::: Services Q Search   [Alt+S]   N. Virginia ▼   Corestack_Role/c.balamanikandan_mphasis @ 3603-0453-5068 ▼

RDS

```
Installing : mod_http2-1.15.19-1.amzn2.0.1.x86_64                                                                      8/9
Installing : httpd-2.4.58-1.amzn2.x86_64                                                                               9/9
Verifying  : httpd-tools-2.4.58-1.amzn2.x86_64                                                                         1/9
Verifying  : httpd-filesystem-2.4.58-1.amzn2.noarch                                                                    2/9
Verifying  : apr-util-bdb-1.6.3-1.amzn2.0.1.x86_64                                                                     3/9
Verifying  : httpd-2.4.58-1.amzn2.x86_64                                                                               4/9
Verifying  : apr-1.7.2-1.amzn2.x86_64                                                                                  5/9
Verifying  : apr-util-1.6.3-1.amzn2.0.1.x86_64                                                                         6/9
Verifying  : mailcap-2.1.41-2.amzn2.noarch                                                                            7/9
Verifying  : generic-logos-httpd-18.0.0-4.amzn2.noarch                                                                8/9
Verifying  : mod_http2-1.15.19-1.amzn2.0.1.x86_64                                                                     9/9

Installed:
  httpd.x86_64 0:2.4.58-1.amzn2

Dependency Installed:
  apr.x86_64 0:1.7.2-1.amzn2              apr-util.x86_64 0:1.6.3-1.amzn2.0.1  apr-util-bdb.x86_64 0:1.6.3-1.amzn2.0.1  generic-logos-httpd.noarch 0:18.0.0-4.amzn2
  httpd-filesystem.noarch 0:2.4.58-1.amzn2  httpd-tools.x86_64 0:2.4.58-1.amzn2  mailcap.noarch 0:2.1.41-2.amzn2          mod_http2.x86_64 0:1.15.19-1.amzn2.0.1

Complete!
[root@ip-172-31-37-127 ~]# cd /var/www/html
[root@ip-172-31-37-127 html]# vi index.html
[root@ip-172-31-37-127 html]# servcie httpd start
-bash: servcie: command not found
[root@ip-172-31-37-127 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-37-127 html]#
```

i-0b189f14cb7d0a7a6 (newec2instance)   ✕

PublicIPs: 34.207.76.219   PrivateIPs: 172.31.37.127

Aws EC2 Instance