

Solution: Launch An EC2 Instance

Use the **us-east-1 N.Vriginia** region to launch an EC2 instance with the following configuration:

- **AMI:** Amazon Linux
- **Instance type:** t2.micro
- **IP:** Public
- **Storage size:** 20GB

For this exercise, we can skip the creation of a new key pair, and acknowledge that we will not be able to connect to the instance.

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Launch instance ▼

Note: Your instances will launch in the US East (N. Virginia) Region

Choose the **Amazon Linux 2 AMI (HVM), SSD Volume Type 64-bit** image.

Amazon Linux
Free tier eligible

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0fc61db8544a617ed (64-bit x86) / ami-0f90a34c9df977efb (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.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select

☒ 64-bit (x86)
☐ 64-bit (Arm)

Select the **t2.micro** option and click the **Next: Configure Instance Details** button.

	General purpose	t2.micro Free tier eligible

1. Skip the defaults for VPC and Subnet

2. Change the **Auto-assign Public IP** field from the default **disabled** to **Enable** and then click **Next: Add Storage** button
3. Change the default size from **8GB** to **20GB**

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

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 <small>i</small>	Device <small>i</small>	Snapshot <small>i</small>	Size (GiB) <small>i</small>	Volume Type <small>i</small>	IOPS <small>i</small>	Throughput (MB/s) <small>i</small>	Delete on Termination <small>i</small>
Root	/dev/xvda	snap-0e27a39c6e2f9f079	20	General Purpose <small>SD</small>	100 / 3000	N/A	<input checked="" type="checkbox"/>

Add New Volume

Since we do not need any further configuration we can click on the **Review and Launch** button.

1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

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.

AMI Details

Free tier eligible

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0fc61db8544a617ed

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.

Root Device Type: ebsVirtualization type: hvm

Edit AMI

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

Edit instance type

Security Groups

Security group name

launch-wizard-1

Description

launch-wizard-1 created 2020-04-07T13:41:59.374-07:00

Type <small>i</small>	Protocol <small>i</small>	Port Range <small>i</small>	Source <small>i</small>	Description <small>i</small>
This security group has no rules				

Edit security groups

Instance Details

Edit instance details

Storage

Edit storage

Tags

Edit tags

Cancel

Previous

Launch

Choose to proceed without an SSH key pair.

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

No key pairs found



No key pairs found

You don't have any key pairs. Please create a new key pair by selecting the **Create a new key pair** option above to continue.

Cancel

Launch Instances

For this exercise, we can skip the creation of a new key pair, and acknowledge that we will not be able to connect to the instance.

Select an existing key pair or create a new key pair



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Proceed without a key pair



I acknowledge that I will not be able to connect to this instance unless I already know the password built into this AMI.

Cancel

Launch Instances

Select **Proceed without a key pair** and check the box for **I acknowledge that...** Then click on the **Launch Instances** button.

Launch Status



Your instances are now launching

The following instance launches have been initiated: [i-0202e08a3d8c20c19](#) [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).

Every instance has an ID. If we click on the ID starting with the prefix **i-** we can see the instance.

Launch Instance

Connect

Actions

search : i-0202e08a3d8c20c19

Add filter

<input type="checkbox"/>	Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP
<input type="checkbox"/>		i-0202e08a3d8c20c19	t2.micro	us-east-1b	running	Initializing	None	ec2-3-91-237-187.com...	3.91.237.187

Instance: i-0202e08a3d8c20c19		Public DNS: ec2-3-91-237-187.compute-1.amazonaws.com	
Description	Status Checks	Monitoring	Tags
Instance ID	i-0202e08a3d8c20c19	Public DNS (IPv4)	ec2-3-91-237-187.compute-1.amazonaws.com
Instance state	running	IPv4 Public IP	3.91.237.187
Instance type	t2.micro	IPv6 IPs	-

In this page we can verify that:

- Our instance type is: **t2.micro**
- An **IPv4 Public IP** has been allocated
- The instance is **running**
 - The instance may first take several minutes to boot