

AWS EC2 (Elastic Compute Cloud)

(How To Launch Virtual Servers)

Vipin Gupta

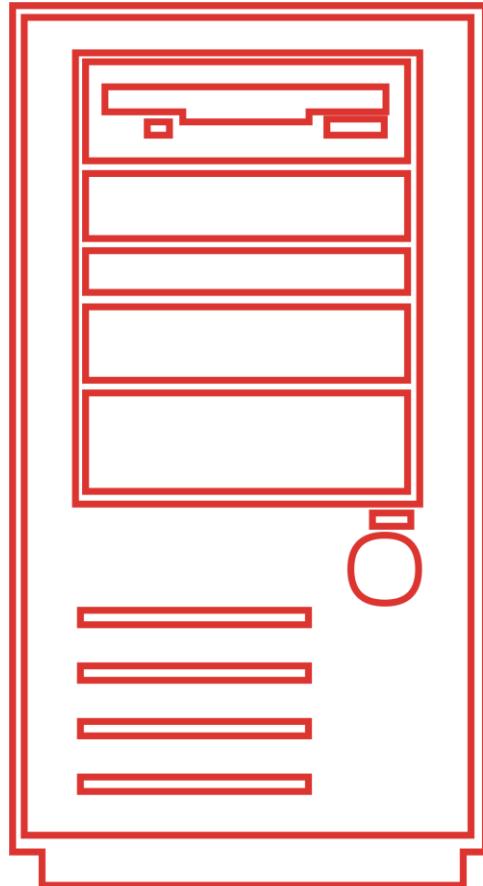
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www.linuxexpert.in

Physical Servers vs Virtual Servers



Physical Server

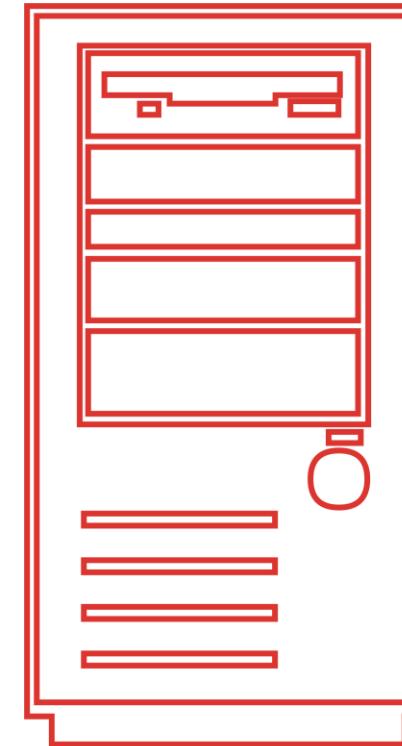
OS: RHEL, CentOS, Ubuntu,
Windows Server 2016

RAM: 8GB, 16GB, 32 GB

Processor: i3, i5, i7

Hard Disk: Magnetic/SSD

NIC: 1GB, 10GB



Virtual Server

AMI: RHEL, Amazon Linux 2, Ubuntu,
Windows Server 2016

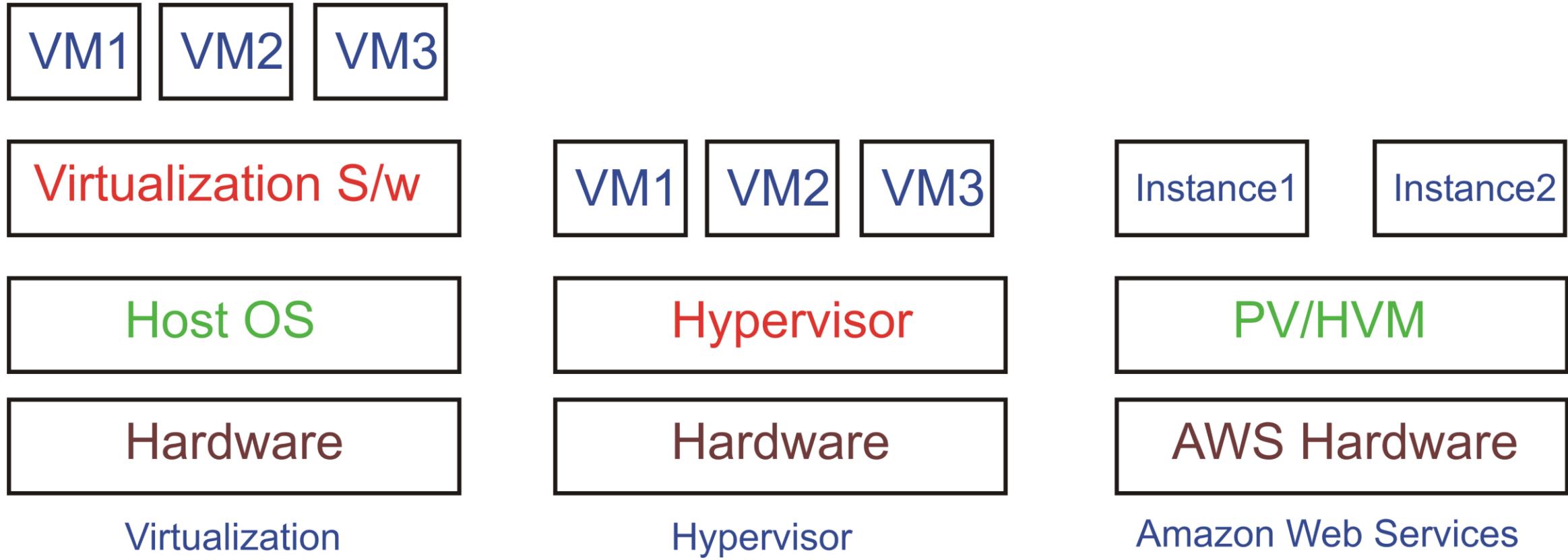
Memory: 1, 2, 4, 8, 16, 32, 64 GiB

vCPU: 1, 2, 4, 8, 16, 32

Storage: EBS/Instance Store

Network Performance: 5, 10, 20, 25,
100 Gigabit

Virtualization/Hypervisor



AWS Management Console

AWS Management Console

AWS services

▼ Recently visited services

 Billing	 DynamoDB	 IoT Core
 S3	 CloudWatch	 VPC
 EC2	 Lambda	 EMR
 IAM	 CloudFront	 Cloud9

▶ All services

AWS Services

The screenshot shows the AWS Management Console home page. At the top, there's a navigation bar with icons for back, forward, refresh, and search, followed by the URL <https://us-east-2.console.aws.amazon.com/console/home?region=us-east-2>, a battery level indicator at 110%, and user information for 'vipin.gupta' and 'Ohio'. Below the navigation bar is the AWS logo and a 'Services ▲' button. A search bar with the placeholder 'Search for services, features, marketplace products [Alt+S]' is positioned next to it. To the right of the search bar are notifications and account settings for 'Support'.

Favorites

Add favorites by clicking on the star next to the service name.

Recently visited

- Console Home
- Billing
- S3
- EC2
- IAM
- DynamoDB
- CloudWatch
- Lambda
- CloudFront
- IoT Core

All services

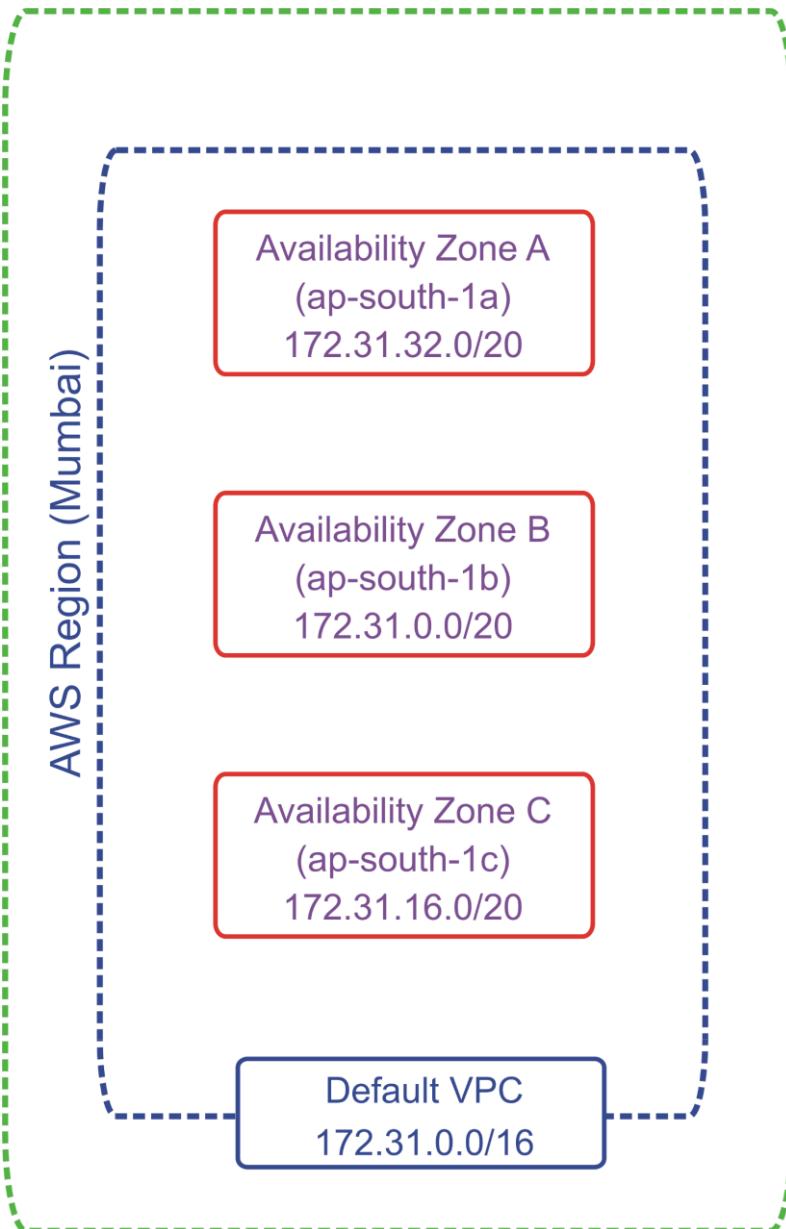
Compute	Customer Enablement	Machine Learning	AWS Cost Management
EC2	AWS IQ	Amazon Sage...	AWS Cost Expl...
Lightsail	Support	Amazon Augm...	AWS Budgets
Lambda	Managed Servi...	Amazon Code...	AWS Marketpl...
Batch	Activate for St...	Amazon DevO...	AWS Applicati...
Elastic Beanstalk		Amazon Comp...	
Serverless App...			
AWS Outposts	Robotics	Amazon Forecast	Front-end Web & Mobile
EC2 Image Bui...	AWS RoboMaker	Amazon Fraud...	AWS Amplify
AWS App Runner	Blockchain	Amazon Kendra	Mobile Hub
	Containers	Amazon Lex	AWS AppSync
	Elastic Contain...	Amazon Mana...	Device Farm
	Elastic Contain...	Amazon Perso...	Amazon Locati...
	Elastic Kuber...	Amazon Polly	
		Amazon Rekog...	
		Amazon Textract	
		Ground Station	

Different Regions and Availability Zones

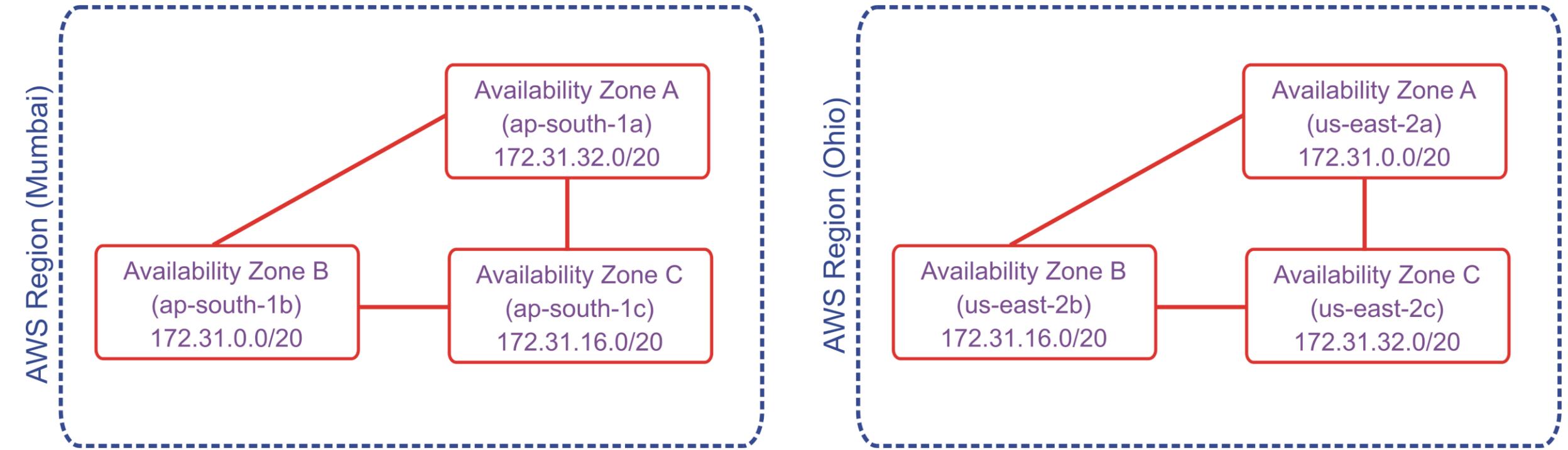
		vipin.gupta	▼	Ohio	▲
<hr/>					
US East (N. Virginia)	us-east-1				
US East (Ohio)	us-east-2				
US West (N. California)	us-west-1				
US West (Oregon)	us-west-2				
<hr/>					
Africa (Cape Town)	af-south-1				
<hr/>					
Asia Pacific (Hong Kong)	ap-east-1				
Asia Pacific (Mumbai)	ap-south-1				
Asia 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
<hr/>	
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
Europe (Stockholm)	eu-north-1
<hr/>	
Middle East (Bahrain)	me-south-1
<hr/>	
South America (São Paulo)	sa-east-1

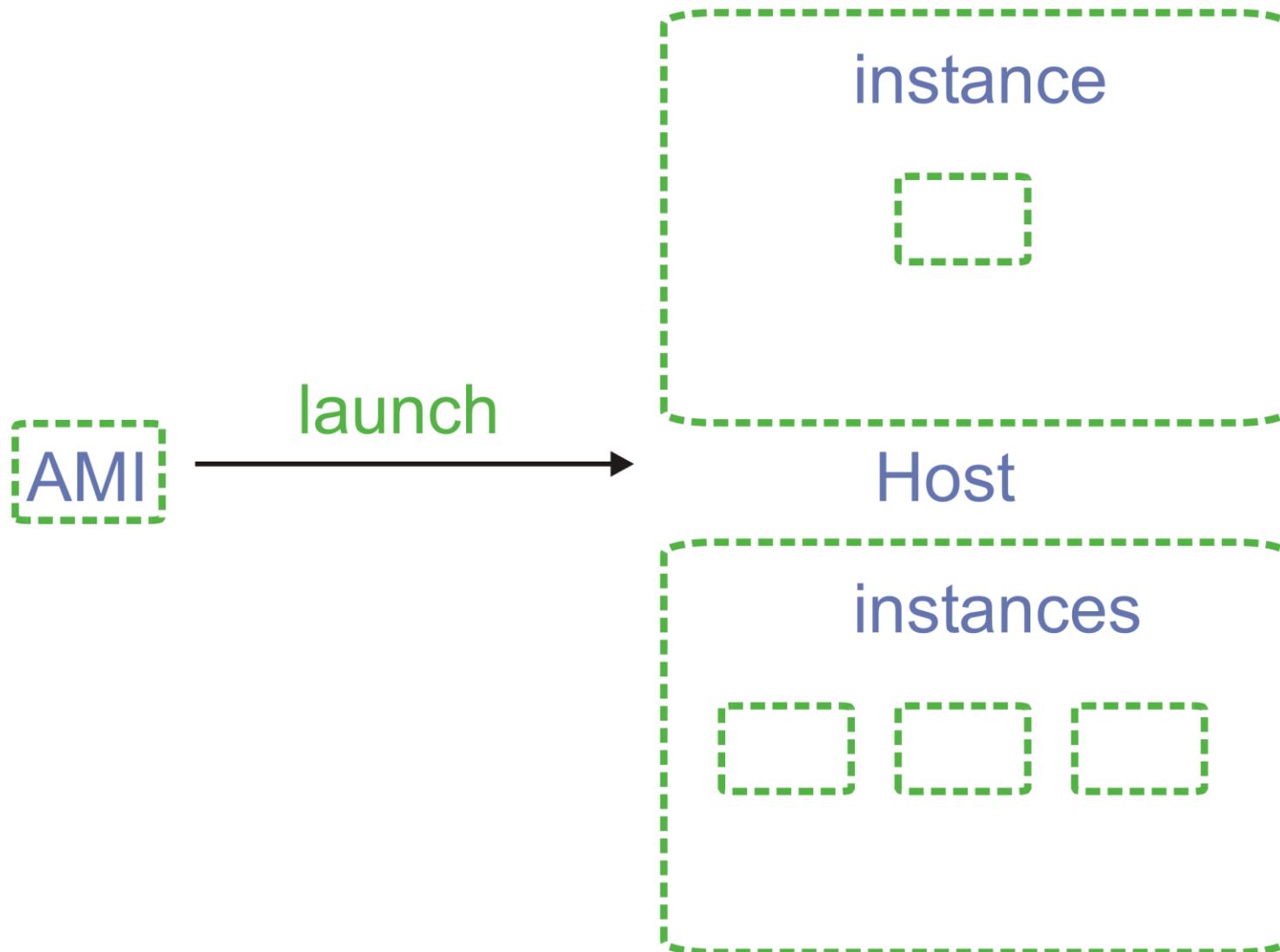
Different Regions and Availability Zones



Different Regions and Availability Zones



What is Amazon Machine Instance (AMI)



Launch Instance

New EC2 Experience
Tell us what you think X

EC2 Dashboard

- Events
- Tags
- Limits

▼ Instances

- Instances New
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans

Launch instance

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

Launch instance ▲

Launch instance US East (Ohio) Region

Launch instance from template

Scheduled events

US East (Ohio)

No scheduled events

Various Steps of Launching Instance

Step 1: Choose AMI (Amazon Machine Image)

Step 2: Choose Instance Type

Step 3: Configure Instance

Step 4: Add Storage

Step 5: Add Tags

Step 6: Configure Security Group

Step 7: Review

Step 1: Choose an Amazon Machine Image (AMI)

[1. Choose AMI](#)[2. Choose Instance Type](#)[3. Configure Instance](#)[4. Add Storage](#)[5. Add Tags](#)[6. Configure Security Group](#)[7. Review](#)

Step 1: Choose an Amazon Machine Image (AMI)

[Cancel and Exit](#)

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](#)

Quick Start

◀ ⏪ 1 to 44 of 44 AMIs ⏩ ▶

[My AMIs](#)[Amazon Linux](#)[Free tier eligible](#)**Amazon Linux 2 AMI (HVM), SSD Volume Type -**ami-0277b52859bac6f4b (64-bit x86) / ami-08814ae27e6f9262d
(64-bit Arm)[Select](#) 64-bit (x86) 64-bit (Arm)[AWS Marketplace](#)[Community AMIs](#)

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.

Step 1: Choose an Amazon Machine Image (AMI)



macOS Big Sur 11.4 - ami-0a9fe78331c483be2

Select

64-bit (Mac)

The macOS Big Sur AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.

Root device type: ebs

Virtualization type: hvm

ENAv Enabled: Yes



macOS Catalina 10.15.7 - ami-0dcfefad26e3bde40

Select

64-bit (Mac)

The macOS Catalina AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.

Root device type: ebs

Virtualization type: hvm

ENAv Enabled: Yes

Step 1: Choose an Amazon Machine Image (AMI)



Red Hat

Free tier eligible

Red Hat Enterprise Linux 8 (HVM), SSD Volume Type -

ami-0ba62214afa52bec7 (64-bit x86) / ami-09f8674883d0ad6b8
(64-bit Arm)

Select

- 64-bit (x86)
 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



SUSE Linux

Free tier eligible

SUSE Linux Enterprise Server 15 SP2 (HVM), SSD Volume Type -

ami-0f052119b3c7e61d1 (64-bit x86) / ami-0b99ca359a84941ee
(64-bit Arm)

Select

- 64-bit (x86)
 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.

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

Step 1: Choose an Amazon Machine Image (AMI)



Ubuntu Server 20.04 LTS (HVM), SSD Volume Type -
ami-00399ec92321828f5 (64-bit x86) / ami-08e6b682a466887dd
(64-bit Arm)

Select

Free tier eligible

- 64-bit (x86)
 64-bit (Arm)

Ubuntu Server 20.04 LTS (HVM), EBS General Purpose (SSD) Volume Type.
Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

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



Microsoft Windows Server 2019 Base - ami-0835374e611a23aa7

Select

Windows

Free tier eligible

64-bit (x86)

Microsoft Windows 2019 Datacenter edition. [English]

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



Microsoft Windows Server 2019 Base with Containers -
ami-0a23033ab25d47f2c

Select

Windows

Free tier eligible

64-bit (x86)

Microsoft Windows 2019 Datacenter edition with Containers. [English]

Step 1: Choose an Amazon Machine Image (AMI)

	Microsoft Windows Server 2019 with SQL Server 2017 Standard - ami-08804bc8138a3bb1d	Select
Windows	Microsoft Windows 2019 Datacenter edition, Microsoft SQL Server 2017 Standard. [English]	64-bit (x86)
	Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	
	Microsoft Windows Server 2019 with SQL Server 2019 Standard - ami-02fdbd89d3ec65057	Select
Windows	Microsoft Windows 2019 Datacenter edition, Microsoft SQL Server 2019 Standard. [English]	64-bit (x86)
	Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	

Step 1: Choose an Amazon Machine Image (AMI)

	Microsoft Windows Server 2016 Base - ami-046ba197a4a7f497e	<a data-bbox="2137 295 2316 352" href="#">Select
Windows	Microsoft Windows 2016 Datacenter edition. [English]	64-bit (x86)
Free tier eligible	Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	
<hr/>	<hr/>	<hr/>
	Microsoft Windows Server 2016 Base with Containers - ami-0edd9308c904fcecf	<a data-bbox="2137 655 2316 712" href="#">Select
Windows	Microsoft Windows 2016 Datacenter edition with Containers. [English]	64-bit (x86)
Free tier eligible	Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	

Step 1: Choose an Amazon Machine Image (AMI)

 Amazon Linux	Deep Learning Base AMI (Amazon Linux) Version 37.0 - ami-0deb2d4bd27af2b75	Select
	Built with NVIDIA CUDA, cuDNN, NCCL, GPU Drivers, Intel MKL-DNN, Docker, NVIDIA-Docker and EFA support. For a fully managed experience, check: https://aws.amazon.com/sagemaker	64-bit (x86)
	Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	
 Red Hat Free tier eligible	Red Hat Enterprise Linux 8 with High Availability - ami-0b2e47f3b2e23d235	Select
	Red Hat Enterprise Linux version 8 with High Availability (HVM), EBS General Purpose (SSD) Volume Type	64-bit (x86)
	Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	

Step 1: Choose an Amazon Machine Image (AMI)

The screenshot shows a user interface for selecting an Amazon Machine Image (AMI). On the left, there is a vertical navigation bar with four items: 'Quick Start' (disabled), 'My AMIs' (selected, indicated by an orange border), 'AWS Marketplace', and 'Community AMIs'. The main content area has a header with navigation arrows and the text 'No AMIs'. Below this, a message states: 'You have not created any AMIs. You can launch instances using AMIs provided by AWS, our user community, or through the AWS Marketplace.'

Quick Start

No AMIs

My AMIs

AWS Marketplace

Community AMIs

▼ Ownership

You have not created any AMIs. You can launch instances using AMIs provided by AWS, our user community, or through the AWS Marketplace.

Step 1: Choose an Amazon Machine Image (AMI)

Quick Start

My AMIs

AWS Marketplace

Community AMIs

Operating system

- Amazon Linux 
- Cent OS 
- Debian 
- Fedora 
- Gentoo 

1 to 50 of 72,666 AMIs

amzn2-ami-hvm-2.0.20210617.0-x86_64-gp2 - ami-0277b52859bac6f4b **Select**
Amazon Linux 2 AMI 2.0.20210617.0 x86_64 HVM gp2 64-bit (x86)
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

RHEL-8.4.0_HVM-20210504-x86_64-2-Hourly2-GP2 - ami-0ba62214afa52bec7 **Select**
Provided by Red Hat, Inc. 64-bit (x86)
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

suse-sles-15-sp2-v20201211-hvm-ssd-x86_64 - **Select**

Step 1: Choose an Amazon Machine Image (AMI)

▼ Operating system

- Amazon Linux 
- Cent OS 
- Debian 
- Fedora 
- Gentoo 
- openSUSE 
- Other Linux 
- Red Hat 
- SUSE Linux 
- Ubuntu 
- Windows 
- macOS 

▼ Architecture

- 32-bit (x86)
- 64-bit (x86)
- 64-bit (Arm)
- 64-bit (Mac)

▼ Root device type

- EBS
- Instance store

Step 1: Choose an Amazon Machine Image (AMI)

Step 1: Choose an Amazon Machine Image (AMI)

[Cancel and Exit](#)

My AMIs
AWS Marketplace
Community AMIs
Categories
All Categories
Infrastructure Software (3277)
DevOps (2625)
Business Applications (1111)



aws marketplace

Find and buy software that runs in the AWS Cloud, software from trusted vendors like SAP, Zend, Microsoft, as well as many open source offerings. You can now find and launch software directly within EC2 for all AWS Marketplace AMI products. View Marketplace products you are currently subscribed to by visiting [Your Software](#) in the AWS Marketplace.

Featured Software



Barracuda

[Infrastructure Software \(3277\)](#)

[DevOps \(2625\)](#)

[Business Applications \(1111\)](#)

JUNIPER
NETWORKS

 **TREND**
MICRO™

[Barracuda CloudGen](#)

[Firewall for AWS -...](#)

Rating ★★★★☆

Rv Barracuda Networks

[vSRX Next Generation](#)

[Firewall](#)

By Juniper Networks

\$0.55/hr or \$2,280.00/yr (53%)

[Trend Micro Deep](#)

[Security](#)

Rating ★★★★☆

Rv Trend Micro

Step 1: Choose an Amazon Machine Image (AMI)

Step 1: Choose an Amazon Machine Image (AMI)

[Cancel and Exit](#) bitcoin X

Search by Systems Manager parameter

Quick Start (0)

< < 1 to 10 of 11 Products > >

My AMIs (0)

AWS Marketplace (11)

Community AMIs (2)

▼ Categories

[All Categories](#)[Infrastructure Software \(2\)](#)

Free tier eligible

Bitcoin Fullnode

★★★★★ (0) | 2.0.5 | By [Techlatest.net](#)

Starting from \$0.15/hr or from \$999.00/yr (24% savings) for software + AWS usage fees

Linux/Unix, Ubuntu ubuntu 18.04 | 64-bit (x86) Amazon Machine Image (AMI) | Updated: 7/4/21

This VM provides you full bitcoin node . It has out of box setup for bitcoin which includes the bitcoind and bitcoin QT GUI and synced ledger (updated on monthly basis). Ledger with this VM is synced till the vm publishing date, making it easier and faster for you to fully sync the remaining ledger.

[Select](#)

Step 1: Choose an Amazon Machine Image (AMI)

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, applic

You can select an A

S Marketplace;

If you are new to AWS, the free usage tier allows you to launch and run micro instances for a year for free.

Filtering by Free tier only allows you to find AMIs which support the free usage tier if used with a micro instance.

Please note that you may still be charged for the use of some AWS products unless your infrastructure and service choices remain within the free usage tier.

For more information about the free usage tier, go to <https://aws.amazon.com/free/>

AMI (HVM), S
9bac6f4b (64-l

comes with five ye
performance on ,
2.29.1, and the I

Free tier only



This AMI is the successor of the Ar

of life on December 31, 2020 and h

Step 2: Choose an Instance Type

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 families ▾ Current generation ▾ Show/Hide Columns

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

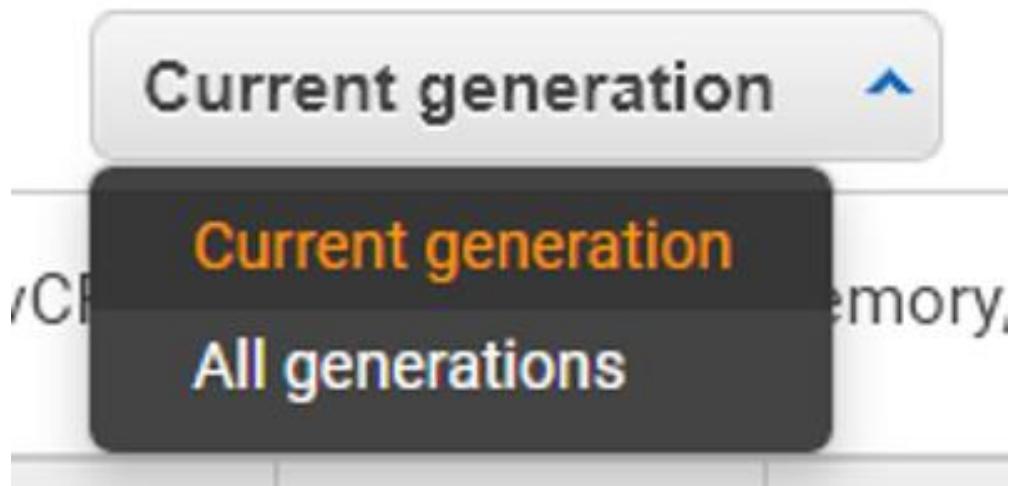
	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	t2	t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate	Yes
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

Cancel Previous **Review and Launch** Next: Configure Instance Details

Step 2: Choose an Instance Type

Currently	Filter by:	All instance families	Current generation	Show/Hide Columns
		All instance families		
		c5d	g4dn	m5d
		c5n	h1	m5dn
		c6g	i2	m5n
		c6gd	i3	m5zn
		c6gn	i3en	m6g
		d2	inf1	m6gd
		d3	m4	mac1
		g3	m5	p2
		g3s	m5a	p3
		g4ad	m5ad	p4d
				r3
				r6gd
				r4
				u-6tb1
				x1
				x1e
				x2gd
				z1d

Step 2: Choose an Instance Type



Step 2: Choose an Instance Type

Step 2: Choose an Instance Type

<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 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.medium	2	4	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.large	2	8	EBS only	Yes	Up to 5 Gigabit	Yes

Step 2: Choose an Instance Type

Step 2: Choose an Instance Type

<input type="checkbox"/>	t3	t3.xlarge	4	16	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.2xlarge	8	32	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3a	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3a	t3a.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3a	t3a.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3a	t3a.medium	2	4	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3a	t3a.large	2	8	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3a	t3a.xlarge	4	16	EBS only	Yes	Up to 5 Gigabit	Yes
<input checked="" type="checkbox"/>	t3a	t3a.2xlarge	8	32	FPRS only	Yes	Up to 5 Gigabit	Yes

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

Step 2: Choose an Instance Type

<input type="checkbox"/>	c4	c4.2xlarge	8	15	EBS only	Yes	High	Yes
<input type="checkbox"/>	c4	c4.4xlarge	16	30	EBS only	Yes	High	Yes
<input type="checkbox"/>	c4	c4.8xlarge	36	60	EBS only	Yes	10 Gigabit	Yes
<input type="checkbox"/>	c5	c5.large	2	4	EBS only	Yes	Up to 10 Gigabit	Yes
<input type="checkbox"/>	c5	c5.xlarge	4	8	EBS only	Yes	Up to 10 Gigabit	Yes
<input type="checkbox"/>	c5	c5.2xlarge	8	16	EBS only	Yes	Up to 10 Gigabit	Yes
<input type="checkbox"/>	c5	c5.4xlarge	16	32	EBS only	Yes	Up to 10 Gigabit	Yes
<input type="checkbox"/>	c5	c5.9xlarge	36	72	EBS only	Yes	10 Gigabit	Yes

Step 2: Choose an Instance Type

<input type="checkbox"/>	c5ad	c5ad.4xlarge	16	32	2 x 300 (SSD)	Yes	Up to 10 Gigabit	Yes
<input type="checkbox"/>	c5ad	c5ad.8xlarge	32	64	2 x 600 (SSD)	Yes	10 Gigabit	Yes
<input type="checkbox"/>	c5ad	c5ad.12xlarge	48	96	2 x 900 (SSD)	Yes	12 Gigabit	Yes
<input type="checkbox"/>	c5ad	c5ad.16xlarge	64	128	2 x 1200 (SSD)	Yes	20 Gigabit	Yes
<input type="checkbox"/>	c5ad	c5ad.24xlarge	96	192	2 x 1900 (SSD)	Yes	20 Gigabit	Yes
<input type="checkbox"/>	c5d	c5d.large	2	4	1 x 50 (SSD)	Yes	Up to 10 Gigabit	Yes
<input type="checkbox"/>	c5d	c5d.xlarge	4	8	1 x 100 (SSD)	Yes	Up to 10 Gigabit	Yes
<input type="checkbox"/>	c5d	c5d.2xlarge	8	16	1 x 200 (SSD)	Yes	Up to 10 Gigabit	Yes

Step 2: Choose an Instance Type

<input type="checkbox"/>	d2	d2.xlarge	4	30.5	3 x 2048	Yes	Moderate	Yes
<input type="checkbox"/>	d2	d2.2xlarge	8	61	6 x 2048	Yes	High	Yes
<input type="checkbox"/>	d2	d2.4xlarge	16	122	12 x 2048	Yes	High	Yes
<input type="checkbox"/>	d2	d2.8xlarge	36	244	24 x 2048	Yes	10 Gigabit	Yes
<input type="checkbox"/>	d3	d3.xlarge	4	32	3 x 1980	Yes	Up to 15 Gigabit	Yes
<input type="checkbox"/>	d3	d3.2xlarge	8	64	6 x 1980	Yes	Up to 15 Gigabit	Yes
<input type="checkbox"/>	d3	d3.4xlarge	16	128	12 x 1980	Yes	Up to 15 Gigabit	Yes
<input type="checkbox"/>	d3	d3.8xlarge	32	256	24 x 1980	Yes	25 Gigabit	Yes

Step 2: Choose an Instance Type

<input type="checkbox"/>	i3	i3.metal	72	512	8 x 1900 (SSD)	Yes	25 Gigabit	Yes
<input type="checkbox"/>	i3en	i3en.large	2	16	1 x 1250 (SSD)	Yes	Up to 25 Gigabit	Yes
<input type="checkbox"/>	i3en	i3en.xlarge	4	32	1 x 2500 (SSD)	Yes	Up to 25 Gigabit	Yes
<input type="checkbox"/>	i3en	i3en.2xlarge	8	64	2 x 2500 (SSD)	Yes	Up to 25 Gigabit	Yes
<input type="checkbox"/>	i3en	i3en.3xlarge	12	96	1 x 7500 (SSD)	Yes	Up to 25 Gigabit	Yes
<input type="checkbox"/>	i3en	i3en.6xlarge	24	192	2 x 7500 (SSD)	Yes	25 Gigabit	Yes
<input type="checkbox"/>	i3en	i3en.12xlarge	48	384	4 x 7500 (SSD)	Yes	50 Gigabit	Yes
<input type="checkbox"/>	i3en	i3en.24xlarge	96	768	8 x 7500 (SSD)	Yes	100 Gigabit	Yes

Step 2: Choose an Instance Type

<input type="checkbox"/>	p2	p2.xlarge	4	61	EBS only	Yes	High	Yes
<input type="checkbox"/>	p2	p2.8xlarge	32	488	EBS only	Yes	10 Gigabit	Yes
<input type="checkbox"/>	p2	p2.16xlarge	64	732	EBS only	Yes	25 Gigabit	Yes
<input type="checkbox"/>	p3	p3.2xlarge	8	61	EBS only	Yes	Up to 10 Gigabit	Yes
<input type="checkbox"/>	p3	p3.8xlarge	32	244	EBS only	Yes	10 Gigabit	Yes
<input type="checkbox"/>	p3	p3.16xlarge	64	488	EBS only	Yes	25 Gigabit	Yes
<input type="checkbox"/>	p4d	p4d.24xlarge	96	1152	8 x 1000 (SSD)	Yes	4x 100 Gigabit	Yes
<input type="checkbox"/>	r4	r4.large	2	15.3	EBS only	Yes	Up to 10 Gigabit	Yes

Step 2: Choose an Instance Type

<input type="checkbox"/>	x1	x1.16xlarge	64	976	1 x 1920 (SSD)	Yes	10 Gigabit	Yes
<input type="checkbox"/>	x1	x1.32xlarge	128	1952	2 x 1920 (SSD)	Yes	25 Gigabit	Yes
<input type="checkbox"/>	x1e	x1e.xlarge	4	122	1 x 120 (SSD)	Yes	Up to 10 Gigabit	Yes
<input type="checkbox"/>	x1e	x1e.2xlarge	8	244	1 x 240 (SSD)	Yes	Up to 10 Gigabit	Yes
<input type="checkbox"/>	x1e	x1e.4xlarge	16	488	1 x 480 (SSD)	Yes	Up to 10 Gigabit	Yes
<input type="checkbox"/>	x1e	x1e.8xlarge	32	976	1 x 960 (SSD)	Yes	Up to 10 Gigabit	Yes
<input type="checkbox"/>	x1e	x1e.16xlarge	64	1952	1 x 1920 (SSD)	Yes	10 Gigabit	Yes
<input type="checkbox"/>	x1e	x1e.32xlarge	128	3904	2 x 1920 (SSD)	Yes	25 Gigabit	Yes

Step 2: Choose an Instance Type

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

Step 2: Choose an Instance Type

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

Cancel

Previous

Review and Launch

Next: Configure Instance Details

Step 3: Configure Instance Details

[1. Choose AMI](#)[2. Choose Instance Type](#)[3. Configure Instance](#)[4. Add Storage](#)[5. Add Tags](#)[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

[Launch into Auto Scaling Group](#)**Purchasing option** Request Spot instances**Network**

vpc-fee37a95 (default)

[Create new VPC](#)**Subnet**

No preference (default subnet in any Availability Zone)

[Create new subnet](#)**Auto-assign Public IP**

Use subnet setting (Enable)

**Placement group** Add instance to placement group**Capacity Reservation**

Open

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

Step 3: Configure Instance Details

[1. Choose AMI](#)[2. Choose Instance Type](#)[3. Configure Instance](#)[4. Add Storage](#)[5. Add Tags](#)[6. Configure Security Group](#)[7. Review](#)

Step 3: Configure Instance Details

Domain join directory

No directory

**C** Create new directory**IAM role**

None

**C** Create new IAM role**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.***Tenancy**

Shared - Run a shared hardware instance

*Additional charges will apply for dedicated tenancy.***Elastic Inference** Add an Elastic Inference accelerator
Additional charges apply.[Cancel](#)[Previous](#)[Review and Launch](#)[Next: Add Storage](#)

Step 3: Configure Instance Details

Step 3: Configure Instance Details

Credit specification



Unlimited

Additional charges may apply

File systems



Add file system



Create new file system

Advanced Details

Enclave



Enable

Metadata accessible



Enabled



Metadata version



V1 and V2 (token optional)



Metadata token response hop limit



1



User data



As text As file Input is already base64 encoded

(Optional)

Cancel

Previous

Review and Launch

Next: Add Storage

Step 3: Configure Instance Details

Subnet	i	No preference (default subnet in any Availability Zone) ▼	Create new subnet
Public IP	i	No preference (default subnet in any Availability Zone)	
Placement group	i	subnet-bfa425d4 Default in us-east-2a subnet-3526d948 Default in us-east-2b subnet-5894b314 Default in us-east-2c	
Auto-assign Public IP	i	Use subnet setting (Enable) ▼	
Placement group	i	Use subnet setting (Enable)	
Capacity Reservation	i	Enable Disable	

Step 3: Configure Instance Details

Shutdown behavior	i	Stop	▼
Stop - Hibernate behavior	i	Stop	▼
Enable termination protection	i	Terminate	
<hr/>			
Tenancy	i	Shared - Run a shared hardware instance	▼
Elastic Inference	i	Shared - Run a shared hardware instance	▼
		Dedicated - Run a Dedicated instance	
		Dedicated host - Launch this instance on a Dedicated host	

Step 3: Configure Instance Details

Purchasing option



Request Spot instances

Network

You have the option to request Spot Instances and specify the maximum price you are willing to pay per instance hour. If you bid higher than the current Spot Price, your Spot Instance is launched and will be charged at the current Spot Price. Spot Prices often are significantly lower than On-Demand prices, so using Spot Instances for flexible, interruption-tolerant applications can lower your instance costs by up to 90%. Learn more about [Spot Instances](#).

Subnet

Auto-assign Public IP

Placement group

Capacity Reservation

Step 4: Add Storage

[1. Choose AMI](#)[2. Choose Instance Type](#)[3. Configure Instance](#)[4. Add Storage](#)[5. Add Tags](#)[6. Configure Security Group](#)[7. Review](#)

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>	Encryption <small>i</small>
Root	/dev/xvda	snap-0fd6b8dfed93c91f7	8	General Purpose S	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypt ▾
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: Add Tags](#)

Step 4: Add Storage

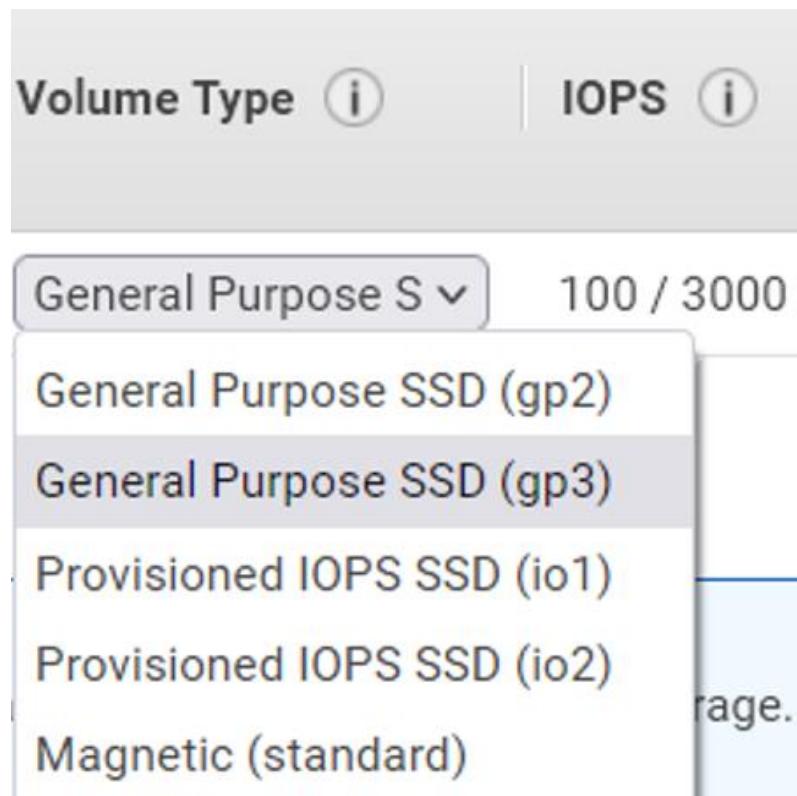
Volume Type	i	IOPS	i	Throughput (MB/s)	i	Delete on Termination
General Purpose SSD						
General Purpose (SSD)						
Magnetic						

General Purpose SSD volumes can burst to 3000 IOPS, and deliver a consistent baseline of 3 IOPS/GiB. Provisioned IOPS SSD volumes can deliver up to 64000 IOPS, and are best for EBS-optimized instances. Magnetic volumes, previously called standard volumes, deliver 100 IOPS on average, and can burst to hundreds of IOPS. Learn more about [EBS volume types](#).

IOPS	i	Throughput (MB/s)	i	Delete on Termination	Encryption
100					
io1					
io2					

The requested number of I/O operations per second that the volume can support. For Provisioned IOPS SSD volumes, you can provision up to 50 IOPS per GiB for io1, and up to 500 IOPS per GiB for io2. For General Purpose SSD volumes, baseline performance is 3 IOPS per GiB, with a minimum of 100 IOPS and a maximum of 16000 IOPS. General Purpose SSD volumes under 1000 GiB can burst up to 3000 IOPS. Learn more about [EBS volume types](#).

Step 4: Add Storage



Step 4: Add Storage

[1. Choose AMI](#)[2. Choose Instance Type](#)[3. Configure Instance](#)[4. Add Storage](#)[5. Add Tags](#)[6. Configure Security Group](#)[7. Review](#)

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
<p>Warning: Specifying this size of a root volume may result in the instance not booting successfully. Not all operating systems support root volumes that are greater than 1023 GiB.</p>								
Root	/dev/xvda	snap-0fd6b8dfed93c91f7	8000	General Purpose S	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypt
Add New Volume								

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

Step 5: Add Tags

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.

A copy of a tag can be applied to volumes, instances or both.

Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key	(128 characters maximum)	Value	(256 characters maximum)	Instances	Volumes	Network Interfaces
-----	--------------------------	-------	--------------------------	-----------	---------	--------------------

This resource currently has no tags

Choose the Add tag button or [click](#) to add a Name tag.

Make sure your [IAM policy](#) includes permissions to create tags.

Add Tag

(Up to 50 tags maximum)

Cancel

Previous

Review and Launch

Next: Configure Security Group

Step 5: Add Tags

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.

A copy of a tag can be applied to volumes, instances or both.

Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key	(128 characters maximum)	Value	(256 characters maximum)	Instances	Volumes	Network Interfaces
-----	--------------------------	-------	--------------------------	-----------	---------	--------------------

Name	Webserver	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
------	-----------	-------------------------------------	-------------------------------------	-------------------------------------	-------------------------------------	----------------------------------

Add another tag

(Up to 50 tags maximum)

Cancel

Previous

Review and Launch

Next: Configure Security Group

Step 6: Configure Security Group

[1. Choose AMI](#)[2. Choose Instance Type](#)[3. Configure Instance](#)[4. Add Storage](#)[5. Add Tags](#)[6. Configure Security Group](#)[7. Review](#)

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: Create a **new** security group

Select an **existing** security group

Security group name:

Description:

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

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

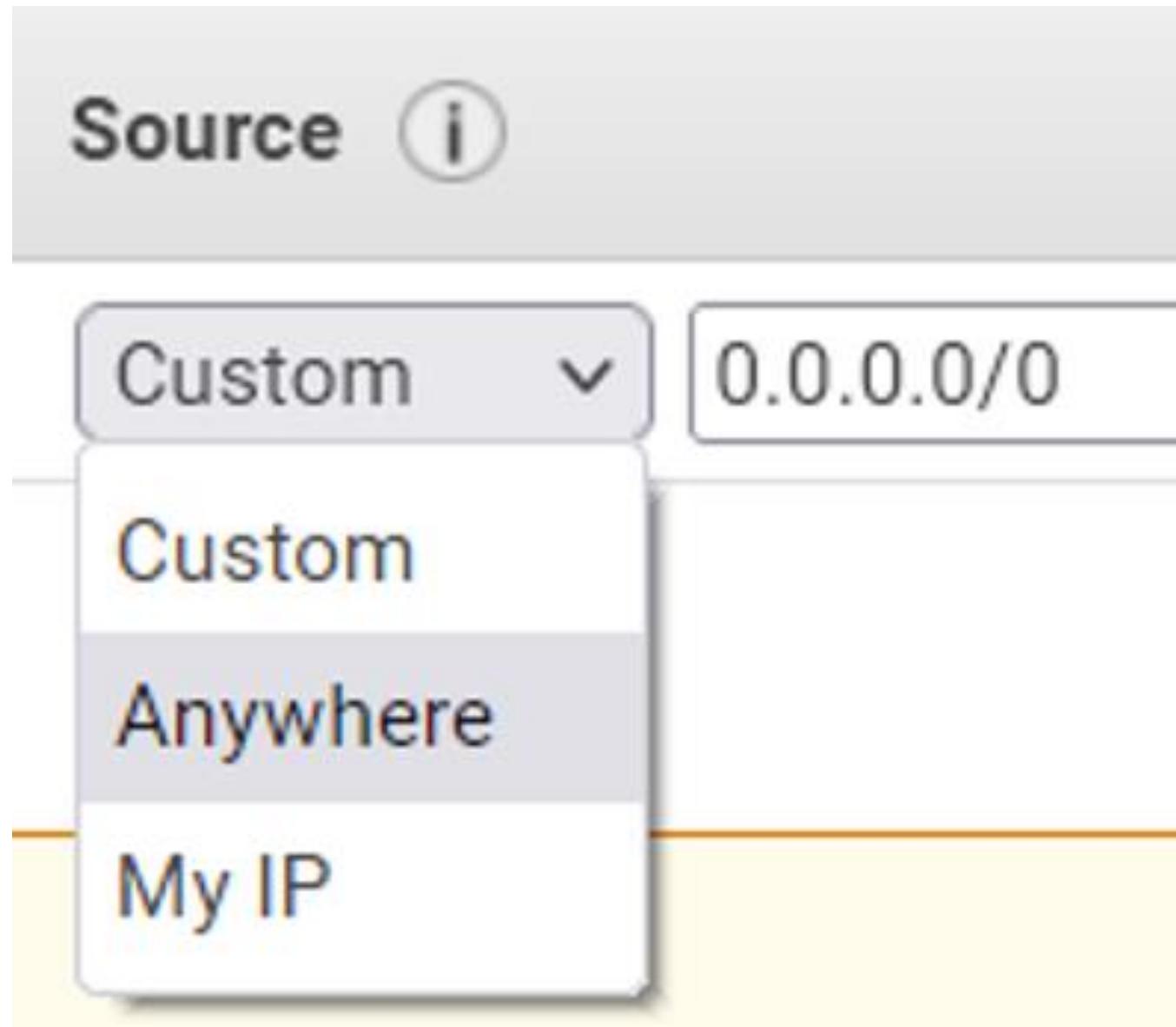
Step 6: Configure Security Group

Custom TCP Rule
Custom UDP Rule
Custom ICMP Rule - IPv4
Custom ICMP Rule - IPv6
Custom Protocol
All TCP
All UDP
All ICMP - IPv4
All ICMP - IPv6
All traffic
SSH
SMTP
DNS (UDP)

DNS (TCP)
HTTP
POP3
IMAP
LDAP
HTTPS
SMB
SMTPS
IMAPS
POP3S
MS SQL
NFS
MySQL/Aurora

RDP
Redshift
PostgreSQL
Oracle-RDS
WinRM-HTTP
WinRM-HTTPS
Elastic Graphics

Step 6: Configure Security Group



Step 7: Review Instance Launch

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

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-1, 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](#)

AMI Details

[Edit AMI](#)



Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0277b52859bac6f4b

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...

[Cancel](#)

[Previous](#)

Launch

Step 7: Review Instance Launch

Step 7: Review Instance Launch

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-1						
Description	launch-wizard-1 created 2021-07-07T15:56:45.486+05:30						
Type i	Protocol i	Port Range i	Source i	Description i			
SSH	TCP	22	0.0.0.0/0				

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

Step 7: Review Instance Launch

The screenshot shows the final step of launching a Lambda function. It features a sidebar on the left with three sections: 'Instance Details' (selected), 'Storage', and 'Tags'. Each section has a corresponding 'Edit' button: 'Edit instance details', 'Edit storage', and 'Edit tags'. On the right side, there are three buttons at the bottom: 'Cancel' (light blue), 'Previous' (gray), and 'Launch' (blue, highlighted). A vertical scroll bar is visible on the far right.

- ▶ Instance Details [Edit instance details](#)
- ▶ Storage [Edit storage](#)
- ▶ Tags [Edit tags](#)

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