

Step1: Chosen ohio region for creating the instance.

aws Services Search [Alt+S] Ohio cloud-lab @ thexyzcompany

EC2 > Instances > Launch an instance

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

Saravanan_Assignment [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

Summary

Number of instances [Info](#)

1

Software Image (AMI)

Provided by Red Hat, Inc.
ami-02b8534ff4b424939

Virtual server type (instance type)

t2.micro

Firewall (security group)

default

Storage (volumes)

Cancel [Launch instance](#) [Review commands](#)

Step2: Chosen OS as RHEL Latest free tier edition

Quick Start

macOS Ubuntu Windows Red Hat SUSE Lin

Mac ubuntu Microsoft Red Hat SUSE

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Red Hat Enterprise Linux 9 (HVM), SSD Volume Type

ami-02b8534ff4b424939 (64-bit (x86)) / ami-06df7225cc50ee1a3 (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Description

Provided by Red Hat, Inc.

Architecture

64-bit (x86)

AMI ID

ami-02b8534ff4b424939

Verified provider

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Cancel [Launch instance](#) [Review commands](#)

Step3: Chosen t2.micro and created a new key pair with .pem

▼ Instance type [Info](#)

Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Linux pricing: 0.0116 USD per Hour

On-Demand SUSE pricing: 0.0116 USD per Hour

On-Demand Windows pricing: 0.0162 USD per Hour

On-Demand RHEL pricing: 0.0716 USD per Hour

Free tier eligible

☐ All generations

[Compare instance types](#)

▼ 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

saravanan_assignment

▼ Summary

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Launch instance

[Review commands](#)

Step 4: In the network settings made the required changes

▼ Network settings [Info](#)

Edit

Network [Info](#)

vpc-01f00d54b68291560

Subnet [Info](#)

No preference (Default subnet in any availability zone)

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 groups [Info](#)

Select security groups

default sg-0e8ca9bfc17a28378 ✕

VPC: vpc-01f00d54b68291560

▼ Summary

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Cancel

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[Review commands](#)

Step5: Successfully launched the instance and assigned storage as 10Gb.

▼ Configure storage Info

Advanced

1x 10 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

0 x File systems

Edit

► Advanced details Info

Number of instances Info

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Cancel

Launch instance

Review commands

Step 6: Initialization has been successfully completed and the checks are passed

Instances (1) Info

Refresh

Connect

Instance state

Actions

Launch instances

Find instance by attribute or tag (case-sensitive)

Key name = saravanan_assignment

×

Clear filters

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
<input type="checkbox"/>	Saravanan_As...	i-03caaba5e7f9b541c	Running	t2.micro	2/2 checks passed	User: arn:aws:i	US-e

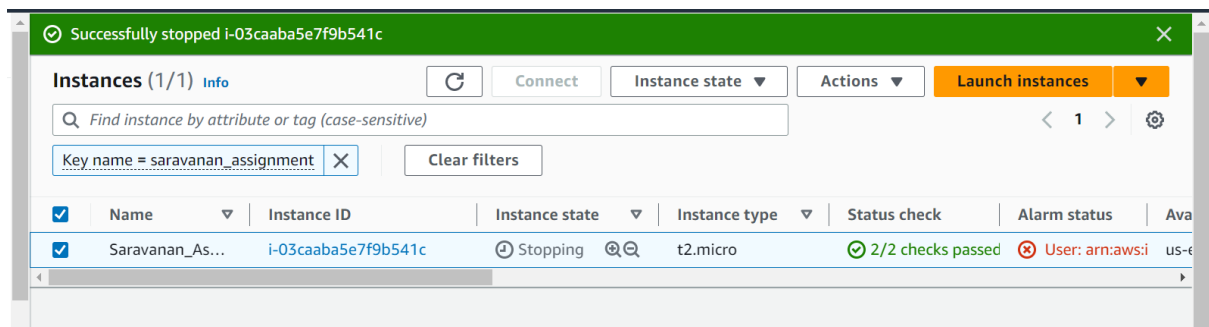
Step7: Logged in successfully with the server and created the file.

```

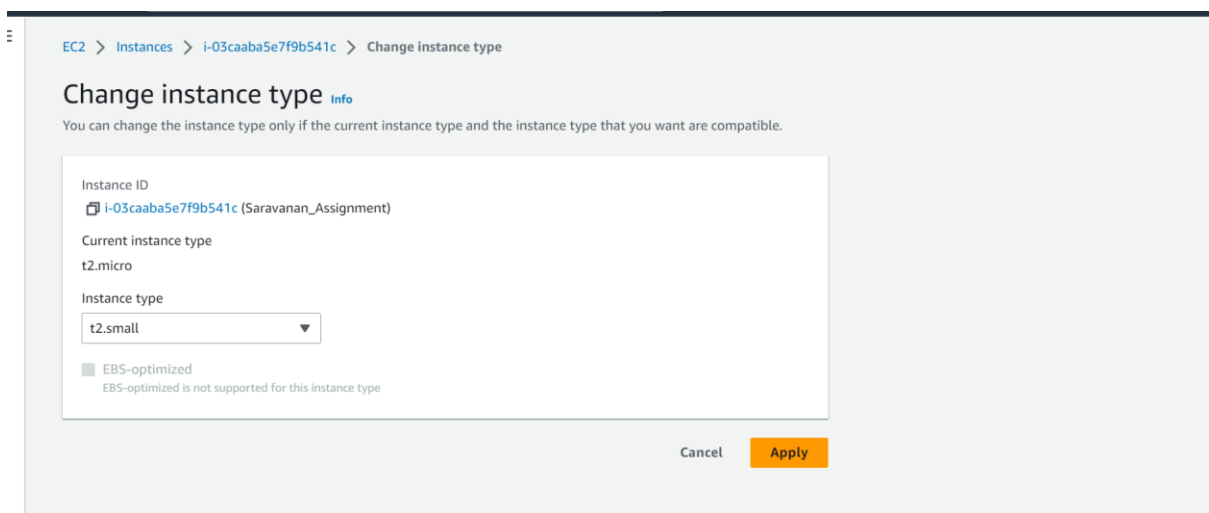
[ec2-user@ip-172-31-14-181 ~]$
PS C:\Users\sarav\Downloads> ssh -i "saravanan_assignment.pem" ec2-user@ec2-3-15-7-75.us-east-2.compute.amazonaws.com
The authenticity of host 'ec2-3-15-7-75.us-east-2.compute.amazonaws.com (3.15.7.75)' can't be established.
ECDSA key fingerprint is SHA256:0Ai2RvMt/uyJSL9SIymaakVAYCpsaPZYm5DabcXJLE.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-3-15-7-75.us-east-2.compute.amazonaws.com,3.15.7.75' (ECDSA) to the list of known hosts.
Register this system with Red Hat Insights: insights-client --register
Create an account or view all your systems at https://red.ht/insights-dashboard
[ec2-user@ip-172-31-14-181 ~]$
[ec2-user@ip-172-31-14-181 ~]$
[ec2-user@ip-172-31-14-181 ~]$
[ec2-user@ip-172-31-14-181 ~]$
[ec2-user@ip-172-31-14-181 ~]$ touch welcome.txt;
[ec2-user@ip-172-31-14-181 ~]$ ls -lrt
total 0
-rw-r--r--. 1 ec2-user ec2-user 0 May 26 12:16 welcome.txt
[ec2-user@ip-172-31-14-181 ~]$

```

Step 8: Stopping the instance to scale up the tier



Step9:Scaled up the instance.



Step10: Instance State has been successfully changed to T2.small

