

Step 1

Launch Instance (orange button)

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

[Add additional tags](#)

▼ Application and OS Images (Amazon Machine Image) [Info](#)

An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose [Browse more AMIs](#).

Recents

Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

SUSE Lin

[Browse more AMIs](#)
Including AMIs from

▼ Summary

Number of instances [Info](#)

Software Image (AMI)
Amazon Linux 2023 AMI 2023.8.2...[read more](#)
ami-08982f1c5bf93d976

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

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

[Cancel](#) [Launch instance](#) [Preview code](#)

Keep Amazon Linux server selected.

Step 2

Select Key pair if you want to connect to your ec2 instance over ssh.

▼ 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

[Create new key pair](#)

1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.8.2...[read more](#)
ami-08982f1c5bf93d976

Virtual server type (instance type)
t3.micro

Step 3

Network setting select existing security group. (SG-class7-test)

▼ Network settings [Info](#)

[Edit](#)

Network [Info](#)

vpc-070385dfc0cc0d8d1

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

Common security groups [Info](#)

Select security groups

SG-class7-test sg-0a10509ebf09e98e6 ✕
VPC: vpc-070385dfc0cc0d8d1

[Compare security group rules](#)

Security groups that you add or remove here will be added to or removed from all your network interfaces.

Step 4

Grabbed source code from Theo's repo. Copy the code.

```
Code Blame
1  #!/bin/bash
2  # Use this for your user data (script from top to bottom)
3  # install httpd (Linux 2 version)
4  yum update -y
5  yum install -y httpd
6  systemctl start httpd
7  systemctl enable httpd
8
9  # Get the IMDSv2 token
10 TOKEN=$(curl -X PUT "http://169.254.169.254/latest/api/token" -H "X-aws-ec2-metadata-token-ttl-seconds: 21600")
11
12 # Background the curl requests
13 curl -H "X-aws-ec2-metadata-token: $TOKEN" -s http://169.254.169.254/latest/meta-data/local-ipv4 &> /tmp/local_ipv4 &
14 curl -H "X-aws-ec2-metadata-token: $TOKEN" -s http://169.254.169.254/latest/meta-data/placement/availability-zone &> /tmp/a
15 curl -H "X-aws-ec2-metadata-token: $TOKEN" -s http://169.254.169.254/latest/meta-data/network/interfaces/macs/ &> /tmp/maci
16 wait
17
18 macid=$(cat /tmp/macid)
19 local_ipv4=$(cat /tmp/local_ipv4)
20 az=$(cat /tmp/az)
21 vpc=$(curl -H "X-aws-ec2-metadata-token: $TOKEN" -s http://169.254.169.254/latest/meta-data/network/interfaces/macs/${macid}
22
23 echo "
24 <!doctype html>
```

Step 5

Under advanced detail go to the bottom to User data paste the code in user data optional.

Select

User data - optional | Info
Upload a file with your user data or enter it in the field.

[Choose file](#)

```

<br>

<p><b>Instance Name:</b> $(hostname -f) </p>
<p><b>Instance Private Ip Address:</b> ${local_ip4}</p>
<p><b>Availability Zone:</b> ${az}</p>
<p><b>Virtual Private Cloud (VPC):</b> ${vpc}</p>
</div>
</body>
</html>
" > /var/www/html/index.html

# Clean up the temp files
rm -f /tmp/local_ip4 /tmp/az /tmp/macid
```

☐ User data has already been base64 encoded

Summary

Number of instances | Info
1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.8.2...[read more](#)
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t3.micro

Firewall (security group)
SG-class7-test

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

[Cancel](#) [Launch instance](#) [Preview code](#)

Step 6

Confirm that the instance was created.



Step 7

Click on the instance ID to display the configuration settings.

Instance summary for i-0b080a52c1ffd8a2c (homeworkwk2-EC2) [Info](#)

[Connect](#)
[Instance state ▼](#)
[Actions ▼](#)

Updated 1 minute ago

Instance ID i-0b080a52c1ffd8a2c	Public IPv4 address 54.167.114.0 open address	Private IPv4 addresses 172.31.26.162
IPv6 address -	Instance state Running	Public DNS ec2-54-167-114-0.compute-1.amazonaws.com open address
Hostname type IP name: ip-172-31-26-162.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-26-162.ec2.internal	
Answer private resource DNS name IPv4 (A)	Instance type t3.micro	Elastic IP addresses -
Auto-assigned IP address 54.167.114.0 [Public IP]	VPC ID vpc-070385dfc0cc0d8d1	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more
IAM Role -	Subnet ID subnet-0458c2a06aee6a641	Auto Scaling Group name -

Step 8

Copy the link from the public DNS button.

Instance summary for i-0b080a52c1ffd8a2c (homeworkwk2-EC2) [Info](#)

[Connect](#)
[Instance state ▼](#)
[Actions ▼](#)

Updated 3 minutes ago

Instance ID i-0b080a52c1ffd8a2c	Public IPv4 address 54.167.114.0 open address	Private IPv4 addresses 172.31.26.162
IPv6 address -	Instance state Running	Public DNS ec2-54-167-114-0.compute-1.amazonaws.com open address

Step 9

Paste the link into a web browser and put the http:// at the beginning of the link.

Virtual Private Cloud (VPC): vpc-070385dfc0cc0d8d1