

Create and Instance to save my homework 9-29-25

Step 1:

Go to EC2 and Launch an instance and name it

The screenshot shows the 'Launch an instance' wizard on the AWS EC2 console. The top navigation bar includes 'Search', '[Option+S]', 'United States (N. Virginia)', and 'Account ID: 4975-8920-5696'. A message at the top says, 'It seems like you may be new to launching instances in EC2. Take a walkthrough to learn about EC2, how to launch instances and about best practices'. Buttons for 'Take a walkthrough' and 'Do not show me this message again' are present.

Name and tags: Name is set to '9-29-25SubmittingHomeWork1'. There is a link to 'Add additional tags'.

Application and OS Images (Amazon Machine Image): A search bar is available. Below it, under 'Recent', are icons for Amazon Linux, macOS, Ubuntu, Windows, Red Hat, SUSE Linux, and Debian. Under 'Quick Start', there are icons for Mac, ubuntu, Microsoft, Red Hat, SUSE Linux, and Debian. A link 'Browse more AMIs' is also present.

Summary: Shows 1 instance. Details include:

- 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

Buttons at the bottom right include 'Launch instance' and 'Preview code'.

Step 2:

Got to key pair - proceed without a key pair

The screenshot shows the 'Launch an instance' wizard on the AWS EC2 console, continuing from step 1. The top navigation bar and summary section are identical to the previous screenshot.

Instance type: t3.micro is selected. It shows family information, current generation status, and pricing details for On-Demand and On-Demand Linux base pricing. A note states 'Additional costs apply for AMIs with pre-installed software'. Buttons for 'All generations' and 'Compare instance types' are available.

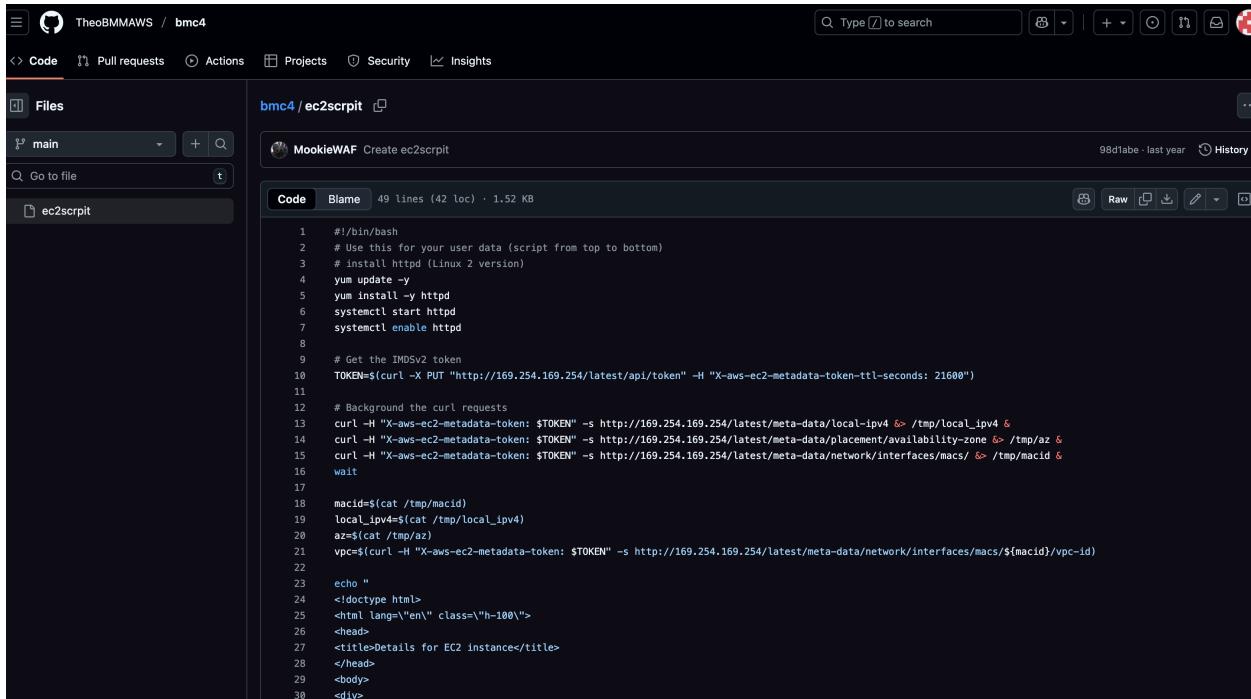
Key pair (login): A note says 'You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.' A dropdown for 'Key pair name - required' has 'Proceed without a key pair (Not recommended)' selected. Buttons for 'Default value' and 'Create new key pair' are shown.

Network settings: Network is set to 'vpc-08ed6364fc18afbc6'. Subnet is 'No preference (Default subnet in any availability zone)'. Auto-assign public IP is 'Enable'. Firewall (security groups) is set to 'Create security group'. A note says 'We'll create a new security group called "launch-wizard-1" with the following rules:'. A checkbox for 'Allow SSH traffic from Anywhere' is checked. A dropdown for '0.0.0.0/0' is shown.

Buttons at the bottom right include 'Launch instance' and 'Preview code'.

Step 3

get the code from here - copy by clicking top right copy icon beside RAW
<https://github.com/TheoBMMAWS/bmc4/blob/main/ec2scrpt>



The screenshot shows a GitHub repository page for 'TheoBMMAWS / bmc4'. The 'Code' tab is selected, displaying the 'ec2scrpt' file. The code is a shell script that performs several tasks: installs httpd, updates yum, installs curl, starts and enables httpd, retrieves an IMDSv2 token, and performs background curl requests to set local IPv4, availability zone, and MAC ID. It then creates an HTML page with EC2 instance details. The code is 49 lines long and 1.52 KB.

```
#!/bin/bash
# Use this for your user data (script from top to bottom)
# install httpd (Linux 2 version)
yum update -y
yum install -y httpd
systemctl start httpd
systemctl enable httpd

# Get the IMDSv2 token
TOKEN=$(curl -X PUT "http://169.254.169.254/latest/api/token" -H "X-aws-ec2-metadata-token-ttl-seconds: 21600")

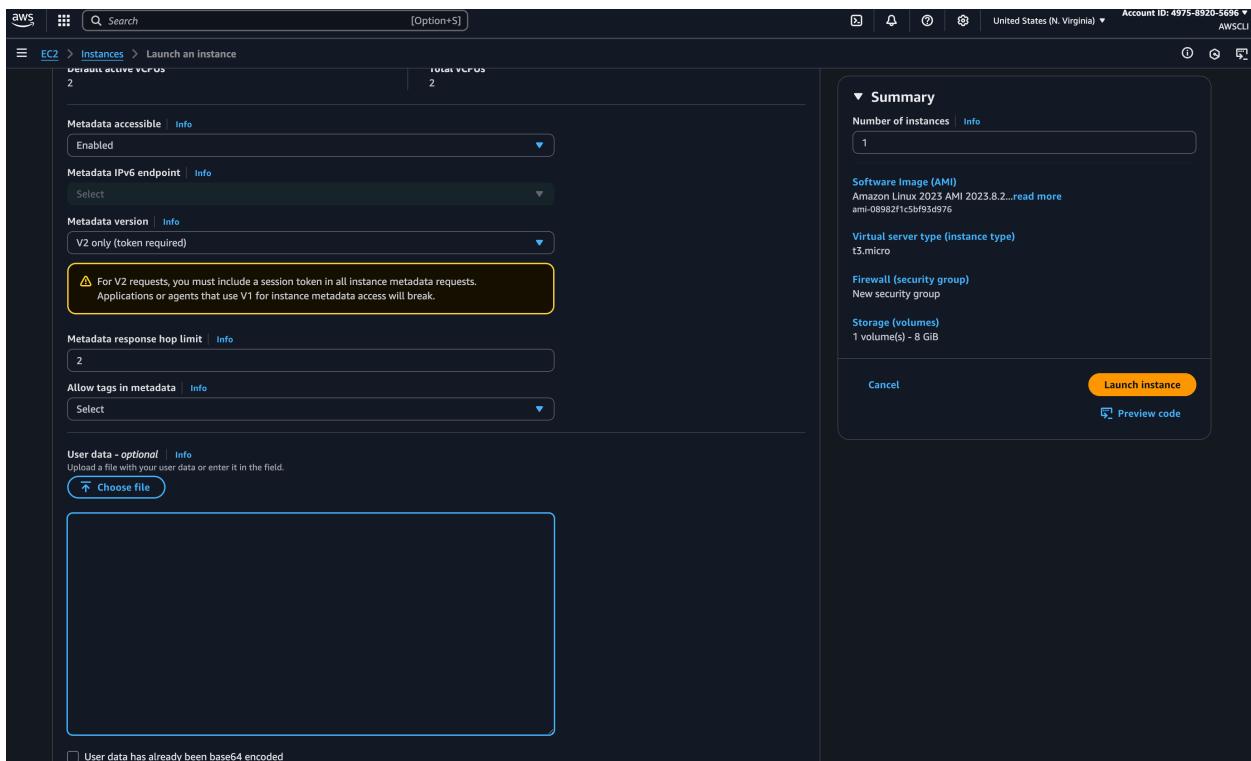
# Background the curl requests
curl -H "X-aws-ec2-metadata-token: $TOKEN" -s http://169.254.169.254/latest/meta-data/local-ipv4 &
curl -H "X-aws-ec2-metadata-token: $TOKEN" -s http://169.254.169.254/latest/meta-data/placement/availability-zone &
curl -H "X-aws-ec2-metadata-token: $TOKEN" -s http://169.254.169.254/latest/meta-data/network/interfaces/macs/ &
wait

macid=$(cat /tmp/macid)
local_ipv4=$(cat /tmp/local_ipv4)
az=$(cat /tmp/az)
vpc=$(curl -H "X-aws-ec2-metadata-token: $TOKEN" -s http://169.254.169.254/latest/meta-data/network/interfaces/macs/${macid}/vpc-id)

echo "
<!doctype html>
<html lang=\"en\" class=\"h-100\">
<head>
<title>Details for EC2 instance</title>
</head>
<body>
<div>
```

Step 4:

Open Advanced details and scroll to the bottom in the User data box and insert the ec2scrpt
paste the script here and launch instance



The screenshot shows the 'Launch instance' step of the AWS EC2 wizard. In the 'User data - optional' section, there is a large text area containing the 'ec2scrpt' code. A checkbox at the bottom left of this area is checked, stating 'User data has already been base64 encoded'. On the right side of the screen, the 'Summary' section shows the instance configuration: 1 instance of the Amazon Linux 2023.8.2 AMI, t3.micro instance type, and New security group. There are 'Launch instance' and 'Preview code' buttons at the bottom right.

Step 5: click the code in the success bar

Instance summary for i-070db2e3b27c5424b (9-29-25SubmittingHomeWork1) [Info](#)

Updated less than a minute ago

Instance ID i-070db2e3b27c5424b	Public IPv4 address 18.234.51.50 open address	Private IP4 addresses 172.31.31.86
IPv6 address -	Instance state Running	Public DNS ec2-18-234-51-50.compute-1.amazonaws.com open address
Hostname type IP name: ip-172-31-31-86.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-31-86.ec2.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t3.micro	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more
Auto-assigned IP address 18.234.51.50 [Public IP]	VPC ID vpc-08ed6364fc18afbc6	Auto Scaling Group name -
IAM Role -	Subnet ID subnet-0c402d6b900e10c51	Managed false
IMDSv2 Required	Instance ARN arn:aws:ec2:us-east-1:497589205696:instance/i-070db2e3b27c5424b	
Operator -		

Details **Status and alarms** **Monitoring** **Security** **Networking** **Storage** **Tags**

Instance details [Info](#)

AMI ID ami-08982f1c5bf93d976	Monitoring disabled	Platform details Linux/UNIX
AMI name al2023-ami-2023.8.20250915.0-kernel-6.1-x86_64	Allowed image -	Termination protection Disabled
Stop protection Disabled	Launch time Mon Sep 29 2025 20:46:58 GMT-0400 (Eastern Daylight Time) (1 min ago)	AMI location amazon/al2023-ami-2023.8.20250915.0-kernel-6.1-x86_64
Instance reboot migration Default (On)	Instance auto-recovery Default	Lifecycle normal
Stop-hibernate behavior Disabled	AMI Launch index 0	Key pair assigned at launch -
State transition reason	Credit specification	Kernel ID

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EC2 > Security Groups

Security Groups (4) [Info](#)

Select a security group

Name	Security group ID	Security group name	VPC ID	Description
-	sg-08900bb21a5736f6f	launch-wizard-1	vpc-08ed6364fc18afbc6	launch-wizard-1 created 2025-09-30T0...
-	sg-0ec91503e57748dd8	BeAManChallenge	vpc-08ed6364fc18afbc6	BeAManChallenge
-	sg-00d61e4cd0942481e	Lizzo-ssh-to-me	vpc-08ed6364fc18afbc6	Allows Lizzo to connect to class 7
DO NOT TOUCH OR KISS LIZZO	sg-0bde1a4125a170b31	default	vpc-08ed6364fc18afbc6	default VPC security group

Actions | [Export security groups to CSV](#) | [Create security group](#)

Step 6:

Go to Security Groups on the left then create Security group
Fill out group name
Description
VPC default

The screenshot shows the 'Create security group' page in the AWS Management Console. In the 'Basic details' section, the security group name is '9-29-25SecurityGroupForCatchupClass' and the description is 'testing'. The VPC is set to 'vpc-08ed6364fc18afbc6'. The 'Inbound rules' section is empty. The 'Outbound rules' section shows a single rule allowing all traffic from 0.0.0.0/0 to all ports. The 'Tags - optional' section is empty.

Step 7:

Next got to inbound rules
*never touch the outbound rules in class!!!

The screenshot shows the 'Create security group' page with an inbound rule added. The rule allows HTTP traffic on port 80 from anywhere to the instance, with a description 'unsecure website'. The 'Outbound rules' section remains the same as in Step 6.

Step 8:
Create Security Group
FIXED THIS POST BY USING ANOTHER SECURITY GROUP THAT HAD PORT 22 AND PORT 80 SET UP

aws Search [Option+S] United States (N. Virginia) Account ID: 4975-8920-5696 AWSCLI

EC2 > Security Groups > sg-00390af7d3f4a55 - 9-29-25SecurityGroupForCatchupClass

Details

Security group name 9-29-25SecurityGroupForCatchupClass	Security group ID sg-00390af7d3f4a55	Description testing	VPC ID vpc-08bed6364fc18afbc6
Owner 497589205696	Inbound rules count 1 Permission entry	Outbound rules count 1 Permission entry	

Inbound rules | Outbound rules | Sharing - new | VPC associations - new | Tags

Inbound rules (1)

Name	Security group rule ID	IP version	Type	Protocol	Port range	Source	Description
-	sgr-00b6646c635edca9	IPv4	HTTP	TCP	80	0.0.0.0/0	unsec

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aws Search [Option+S] United States (N. Virginia) Account ID: 4975-8920-5696 AWSCLI

EC2 > Instances > i-070db2e3b27c5424b

Instances (1/3) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
BeAManChallenge	i-0f5a186510594fb48	Stopped	t3.micro	-	View alarms +	us-east-1a	-	-
Lizzo-host	i-014fd2604c403388	Stopped	t3.micro	-	View alarms +	us-east-1a	-	-

i-070db2e3b27c5424b (9-29-25SubmittingHomeWork1)

Details | Status and alarms | Monitoring | **Security** | Networking | Storage | Tags

Security details

IAM Role	Owner ID	Launch time
-	497589205696	Mon Sep 29 2025 21:32:00 GMT-0400 (Eastern Daylight Time)

Security groups

sg-0ec91503e57748dd8 (BeAManChallenge)
--

Inbound rules

Name	Security group rule ID	Port range	Protocol	Source	Security groups	Description
-	sgr-0ae3c3648f0a971c9	80	TCP	0.0.0.0/0	BeAManChallenge	BAMC Webpage
-	sgr-0e7ea8d20aab6067c	22	TCP	0.0.0.0/0	BeAManChallenge	-

Outbound rules

Name	Security group rule ID	Port range	Protocol	Destination	Security groups	Description
-	sgr-0ba8d7fd247605415	All	All	0.0.0.0/0	BeAManChallenge	-

Instances (1/3) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
BeAManChallenge	i-0f5a186510594848	Stopped	t3.micro	-	View alarms +	us-east-1a	-	-
Lizzo-host	i-014f0d2604c403388	Stopped	t3.micro	-	View alarms +	us-east-1a	-	-
9-29-25SubmittingH...	i-070db2e3b27c5424b	Running	t3.micro	3/3 checks passed	View alarms +	us-east-1a	ec2-18-234-51-50.com...	18.234.51.50

i-070db2e3b27c5424b (9-29-25SubmittingHomeWork1)

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

Instance summary

Instance ID	18.234.51.50 open address	Public IPv4 address	172.31.31.86 open address
IPv6 address	-	Instance state	Running
Hostname type	IP name: ip-172-31-31-86.ec2.internal	Private IP DNS name (IPv4 only)	ip-172-31-31-86.ec2.internal
Answer private resource DNS name	IPv4 (A)	Instance type	t3.micro
Auto-assigned IP address	18.234.51.50 [Public IP]	VPC ID	vpc-08ed6364fc18afbc6
IAM Role	-	Subnet ID	subnet-0c402d6b900e10c51
IMDSv2	Required	Instance ARN	arn:aws:ec2:us-east-1:497589205696:instance/i-070db2e3b27c5424b
Operator	-	Platform details	Managed: false

Step 9:
go to instances choose/highlight instance and click connect at the top

Connect Info

Connect to an instance using the browser-based client.

EC2 Instance Connect | Session Manager | SSH client | EC2 serial console

Instance ID: i-070db2e3b27c5424b (9-29-25SubmittingHomeWork1)

Connection type:

- Connect using a Public IP: Connect using a public IPv4 or IPv6 address
- Public IPv4 address: 18.234.51.50
- IPv6 address: -

Username: Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ec2-user.

ec2-user

Note: In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

Cancel | **Connect**

Connect

A newer release of "Amazon Linux" is available.
Version 2023.9.20250929:
Run "/usr/bin/dnf check-release-update" for full release and version update info
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
[ec2-user@ip-172-31-31-86 ~]\$

i-070db2e3b27c5424b (9-29-25SubmittingHomeWork1)
PublicIPs: 18.234.51.50 PrivateIPs: 172.31.31.86

Create Repository in GitHub for homework
Create .git file in local folder follow

```
git init
git add README.md
    Git add readme.md stages this file to be pushed, after you have to push all the files you want pushed
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/DennistonShaw/testing123.git
git push -u origin main
```

Git add . (Adds each file to your staging)