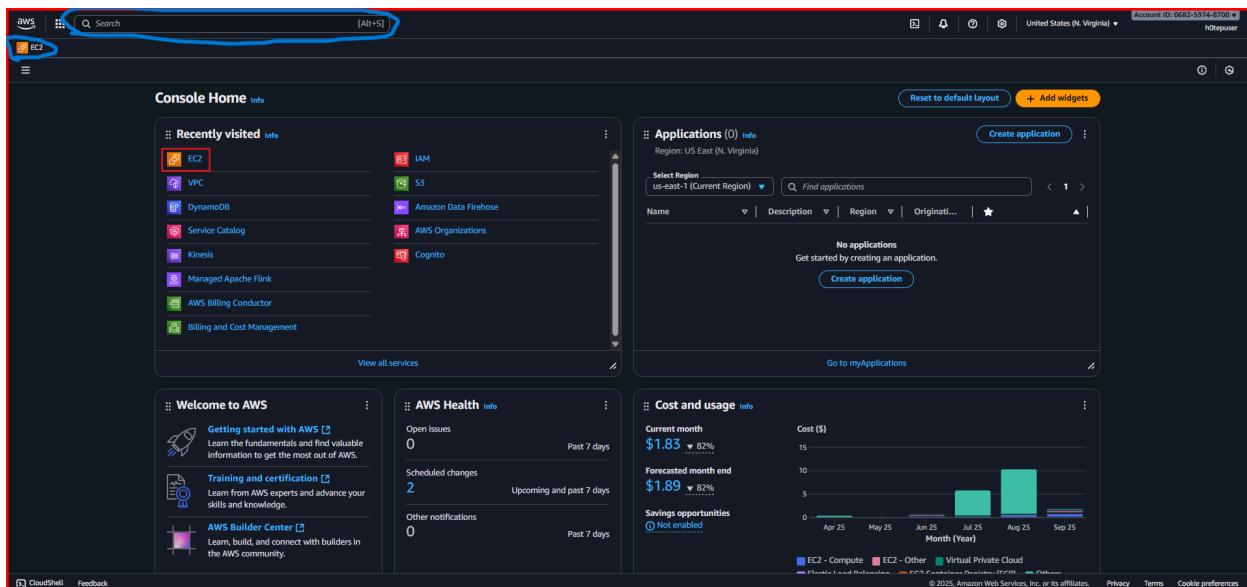


This is a How-To document that walks you through the process of configuring and tearing down an AWS EC2 instance.

1. Once you have logged into your AWS console, you have several options on how to access the EC2 service.
  1. If you have been using the console frequently, an icon will be displayed in the recently added widget.
  2. There will be an additional icon listed under the ‘AWS’ logo in the top left corner of the console.
  3. The search bar immediately to the right of the “AWS” icon on the top left.



2. Once you have clicked on the EC2 icon, you will be led to the EC2 Dashboard. Make sure to click on the big orange button in the Launch Instance widget.

The screenshot shows the AWS EC2 Dashboard. On the left, there's a sidebar with various navigation options like Dashboard, Instances, Images, Network & Security, and Auto Scaling. The main area has sections for Resources (listing Instances (running), Dedicated Hosts, Key pairs, Security groups, Auto Scaling Groups, Elastic IPs, Load balancers, Instances, Placement groups, Snapshots, Capacity Reservations, and Volumes), Launch instance (with a prominent orange 'Launch instance' button), Service health (showing the service is operating normally), Zones (listing regions like us-east-1a through us-east-1f and us-east-1-mia-1a), and other features like Instance alarms, Scheduled events, and Explore AWS. The 'Launch instance' section is the primary focus, with its button highlighted by a red box.

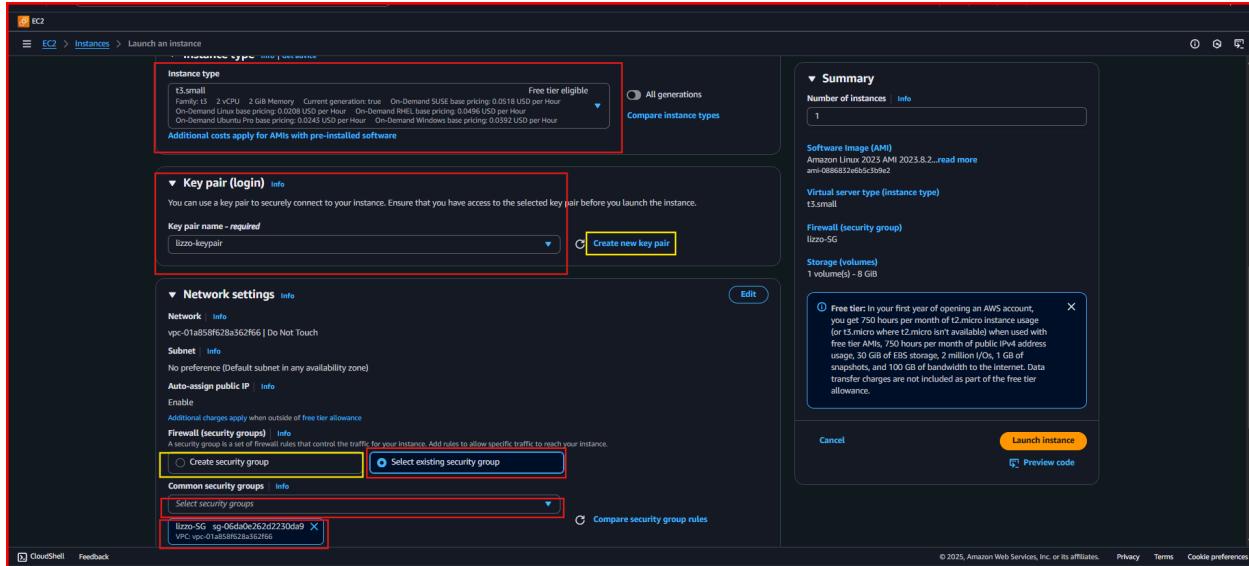
3. From here you will start to configure how you want the instance to be set up:

1. First, you will select any name of your choosing under the 'Name and tags' widget.
2. Select the AMI of your choosing (For now, we will use Amazon Linux).
3. At the drop-down menu, make sure that the AMI you choose is under the 'Free tier eligible'.

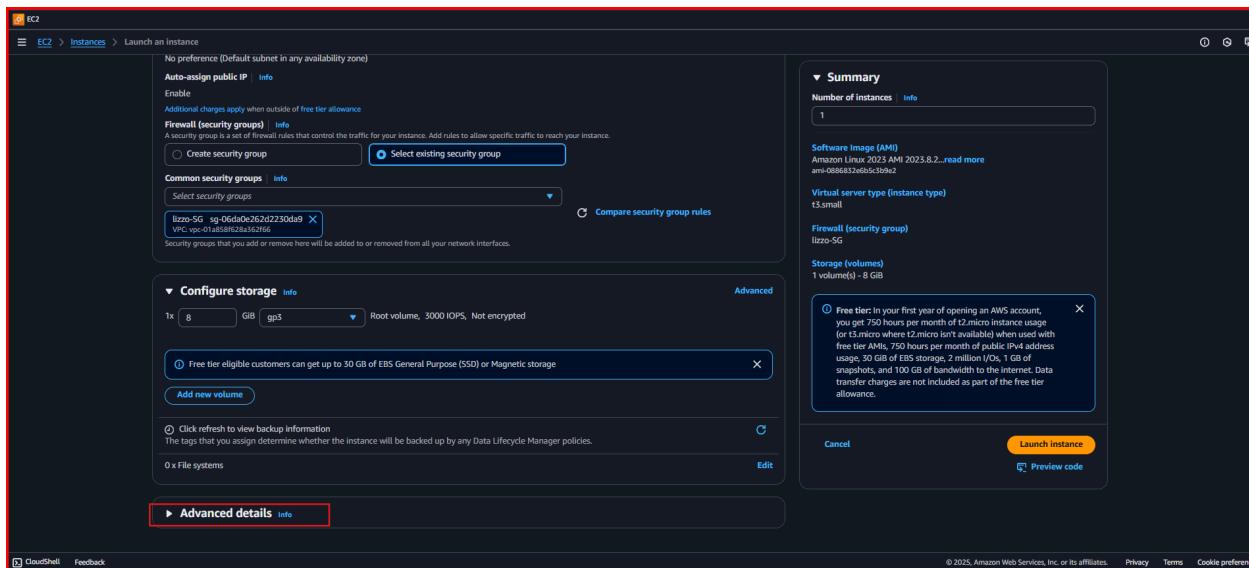
This screenshot shows the 'Launch an instance' wizard. It starts with a 'Name and tags' step where 'hw\_Server' is entered. Then it moves to the 'Application and OS Images (Amazon Machine Image)' step. In this step, the 'Quick Start' tab is selected, showing a grid of recent and popular AMIs. The 'Amazon Linux' AMI is highlighted with a red box. A tooltip for this AMI states: 'Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free Amazon EBS volumes per month. Public IP address, 500 GB of Amazon EBS storage, 2 million IOPS of snapshots, and 100 GB of bandwidth to the internet. Data transfer charges are not included as part of the free tier allowance.' Below the grid, there's a 'Description' section for the selected AMI, which is 'Amazon Linux 2023 (kernel-6.12)'. At the bottom right, there are 'Cancel', 'Launch instance', and 'Preview code' buttons.

#### 4. Configuration continued:

- Select the instance type. Make sure that it is 'Free-tier eligible'
- Select a key pair:
  - If you don't have a key pair available, you can create one by clicking on 'Create new key pair'
- Select an existing security group
  - If need be can create a new security group



#### 5. From here, you will scroll down to 'Advanced details' and click the drop-down,



6. Scroll all the way down to 'user data'. Form here you have the option of copying just the raw test of your script to empty field. Or, you can simply upload the document with the 'Choose file' icon.

**Metadata version** | [Info](#)  
V2 only (token required) ▾

**⚠️** For V2 requests, you must include a session token in all instance metadata requests.  
Applications or agents that use V1 for instance metadata access will break.

**Metadata response hop limit** | [Info](#)  
2

**Allow tags in metadata** | [Info](#)  
Select ▾

---

**User data - optional** | [Info](#)  
Upload a file with your user data or enter it in the field.

**Choose file** (button)

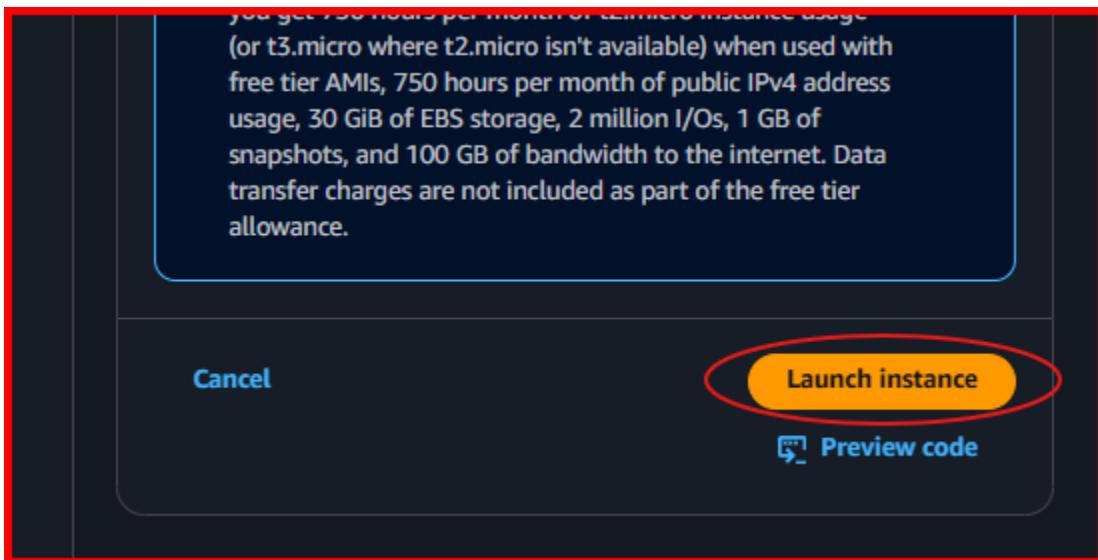
```
#!/bin/bash
# Use this for your user data (script from top to bottom)
# install httpd (Linux 2 version)
yum update -y
yum install -y httpd
systemctl start httpd
systemctl enable httpd

# 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")

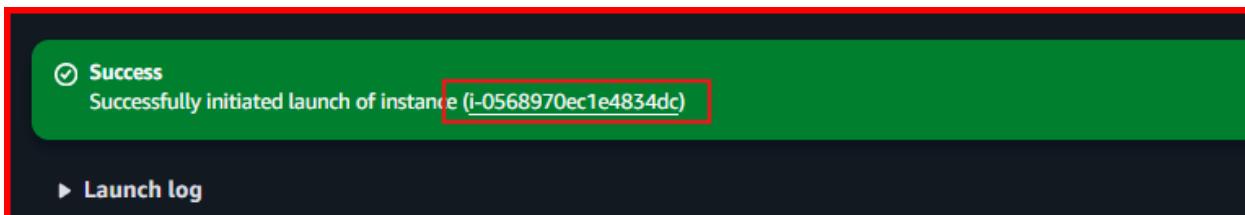
# Background the curl requests
curl -H "X-aws-ec2-metadata-token: $TOKEN" -s http://169.254.169.254/latest/meta-data/local-ipv4 &> /tmp/local_ipv4 &
```

User data has already been base64 encoded

7. Once done. Click the orange 'Launch instance button to the right



8. After you have successfully launched the instance, click on the link that has the the parenthesis.  
As indicated below.



9. From the instance summary page, you have all the information you need about your instance. As indicated below, you have two options to launch the homepage. Both will lead to the homepage that the EC2 deployed once it was launched.

Instance summary for i-0568970ec1e4834dc (hw\_server) [Info](#)

Updated less than a minute ago

Instance ID [i-0568970ec1e4834dc](#)

IPv6 address -

Hostname type IP name: ip-172-31-27-35.ec2.internal

Answer private resource DNS name IPv4 (A)

Auto-assigned IP address [35.172.180.139 \[Public IP\]](#)

IAM Role -

IMDSv2 Required

Operator -

Public IPv4 address [35.172.180.139 \[open address\]](#)

Private IP address 172.31.27.35

Instance state Running

Private IP DNS name (IPv4 only) [ip-172-31-27-35.ec2.internal](#)

Instance type t3.small

VPC ID [vpc-01a858f628a362f66 \(Do Not Touch\)](#)

Subnet ID [subnet-08cb4535ac6ab0534](#)

Instance ARN [arn:aws:ec2:us-east-1:068259748700:instance/i-0568970ec1e4834dc](#)

Private IP addresses 172.31.27.35

Public DNS [ec2-35-172-180-139.compute-1.amazonaws.com \[open address\]](#)

Elastic IP addresses -

AWS Compute Optimizer finding [Opt-In to AWS Compute Optimizer for recommendations | Learn more](#)

Auto Scaling Group name -

Managed false

[Details](#) [Status and alarms](#) [Monitoring](#) [Security](#) [Networking](#) [Storage](#) [Tags](#)

▼ Instance details [Info](#)

AMI ID	Monitoring	Platform details
<a href="#">ami-0886832e6b5c3b9e2</a>	disabled	Linux/UNIX
AMI name <a href="#">al2023-ami-2023.8.20250915.0-kernel-6.12-x86_64</a>	Allowed image	Termination protection
Stop protection <a href="#">Disabled</a>	Launch time <a href="#">Tue Sep 30 2025, 10:06:41 GMT-0400 (Eastern Daylight Time) (1 minute)</a>	AMI location <a href="#">ami.amazon/al2023-ami-2023.8.20250915.0-kernel-6.12-x86_64</a>

10. Whether you are using the Public DNS or the Public IPv4 address, please be sure to include 'http://' before pasting in the respective IP or URL

← → C ⌂ ⌂ <http://35.172.180.139>

Class7 Resources AppSe [Details for EC2 instance - http://35.172.180.139](#)

11. Successful launch of the Homepage.

## AWS Instance Details

### Samurai Katana



# insert an image or GIF

**Instance Name:** ip-172-31-27-35.ec2.internal

**Instance Private Ip Address:** 172.31.27.35

**Availability Zone:** us-east-1d

**Virtual Private Cloud (VPC):** vpc-01a858f628a362f66

## Teardowns:

1. As indicated by the pictures, below, click on the 'Instance State' tab to the right.
2. From the drop-down menu, click 'Terminate'

Instance summary for i-0568970ec1e4834dc (hw\_server) [Info](#)

Updated 7 minutes ago

**Instance ID** [i-0568970ec1e4834dc](#)

**IPv6 address** -

**Hostname type** IP name: ip-172-31-27-35.ec2.internal

**Answer private resource DNS name** IPv4 (A)

**Auto-assigned IP address** [35.172.180.139 \[Public IP\]](#)

**IAM Role** -

**IMDSv2** Required

**Operator** -

**Public IPv4 address** [35.172.180.139](#) | [open address](#)

**Private IPv4 addresses** [172.31.27.35](#)

**Public DNS** [ec2-35-172-180-139.compute-1.amazonaws.com](#)

**Instance state** [Running](#)

**VPC ID** [vpc-01a858f628a362f66 \(Do Not Touch\)](#)

**Subnet ID** [subnet-08cb4535ac6ab0534](#)

**Instance ARN** [arn:aws:ec2:us-east-1:068259748700:instance/i-0568970ec1e4834dc](#)

**Elastic IP addresses** -

**AWS Compute Optimizer finding** [Opt-in to AWS Compute Optimizer for recommendations.](#) | [Learn more](#)

**Auto Scaling Group name** -

**Managed** false

**Details** [Status and alarms](#) [Monitoring](#) [Security](#) [Networking](#) [Storage](#) [Tags](#)

**AMI ID** [ami-0886832e6b5c3b9e2](#)

**AMI name** [al2023-ami-2023.8.202509150-kernel-6.12-x86\\_64](#)

**Monitoring** disabled

**Allowed image** -

**Platform details** [Linux/UNIX](#)

**Termination protection** Disabled

[Details](#) [Status and alarms](#) [Monitoring](#) [Security](#) [Networking](#) [Storage](#) [Tags](#)

Click on the 'instance' link on the left to verify that the shutdown has occurred.

**EC2**

**Instances** [i-0568970ec1e4834dc](#)

**EC2**

**Dashboard**

**EC2 Global View**

**Events**

**Instances**

- Instances**
- Instance Types**
- Launch Templates**
- Spot Requests**
- Savings Plans**
- Reserved Instances**
- Dedicated Hosts**
- Capacity Reservations**

**Images**

**Instance summary for i-0568970ec1e4834dc**

Updated less than a minute ago

**Instance ID** [i-0568970ec1e4834dc](#)

**IPv6 address** -

**Hostname type** IP name: ip-172-31-27-35.ec2.internal

**Answer private resource DNS name** IPv4 (A)

**Auto-assigned IP address** [35.172.180.139 \[Public IP\]](#)

**IAM Role** -

Tear down successful.

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check
<input checked="" type="checkbox"/>	hw_server	i-0568970ec1e4834dc	Terminated	t3.small	-