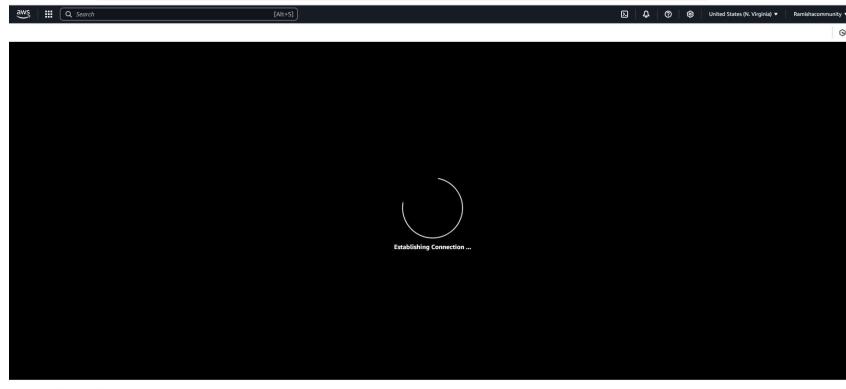
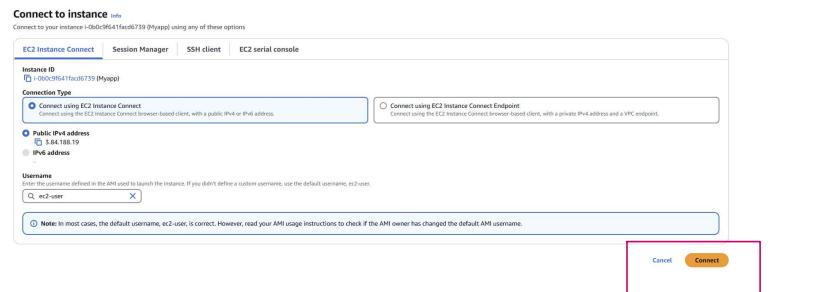


EC2- Hosting without Port

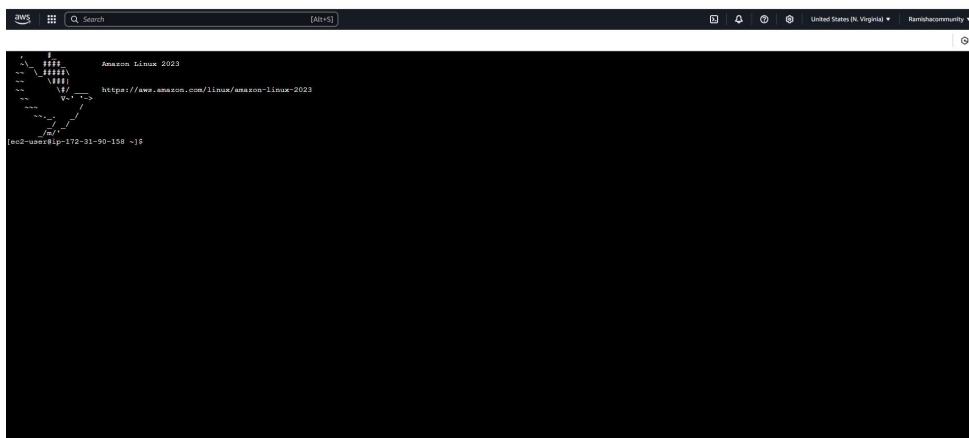
27 April 2025 20:15

Step 1: Go to EC2 Service

The screenshot shows the AWS EC2 service dashboard. At the top, there's a summary of instances: 1 running, 0 stopped, 0 pending, and 0 terminated. Below this, there are sections for 'Images' (with a link to the AMI Catalog), 'Elastic Block Store' (with links to Metrics, Snapshots, Lifecycle Manager, and Network & Security), and 'Dedicated Hosts' (with a link to Capacity Reservations). The main content area is titled 'Amazon Elastic Compute Cloud (EC2)' and features a 'Launch a virtual server' button. It highlights 'Benefits and features' such as ultimate scalability and control over the entire technology stack. A 'Get started' section provides links to 'Get started with EC2' and 'Get started with Amazon Machine Images'. The 'Summary' section shows one instance named 'Amazon Linux 2023 AMI - 2023.07.1.1 (x86_64)' with an IP of 18.196.111.13. The 'Details' tab is selected. The 'Description' tab shows a detailed description of the AMI, mentioning it's a general purpose Linux-based OS that's optimized for the cloud. The 'Architecture' tab shows the architecture as x86_64. The 'Key pair (Optional)' section has a dropdown set to 'Create key pair' and a 'Create key pair' button. The 'Network settings' section shows 'Network' set to 'auto', 'Subnet' as 'auto', and 'Region' as 'us-east-1'. The 'Configure storage' section shows a volume of 1 GiB with 'Amazon EBS' selected. The 'Next Step' section lists several options: 'Create billing and free tier usage alerts', 'Connect to your instance', 'Connect an RDS database', 'Create EBS snapshot policy', 'Manage detailed monitoring', 'Create Load Balancer', 'Create AWS budget', 'Manage CloudWatch alarms', 'Disaster recovery for your instances', 'Monitor for suspicious runtime activities', 'Get instance screenshot', and 'Get system log'. At the bottom, there's a 'Connect to instance' section with a 'Connect to your instance' button and a note about using EC2 Instance Connect or SSH client. There are also tabs for 'EC2 Instance Connect', 'Session Manager', 'SSH client', and 'EC2 serial console'.



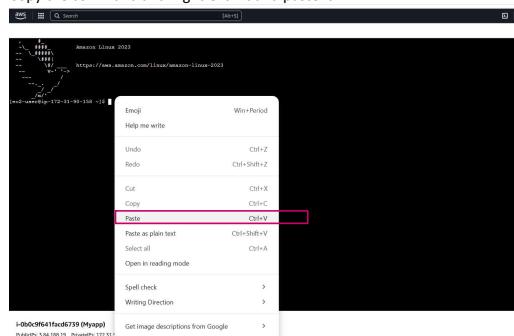
i-0b0c9f641facd6759 (Myapp)
PublicIPs: 3.84.188.19 PrivateIPs: 172.31.90.158



i-0b0c9f641facd6759 (Myapp)
PublicIPs: 3.84.188.19 PrivateIPs: 172.31.90.158

`sudo yum update -y`

Copy the command and Right Click it and paste it





```
'`#  
~\###` Amazon Linux 2023  
~~\###\`  
~~\##|  
~~\#/` https://aws.amazon.com/linux/amazon-linux-2023  
~~`V~`-->  
~~`/`  
~~`-`/  
~~`/_`/  
~/m/`  
[ec2-user@ip-172-31-90-158 ~]$  
sudo yum update -y  
Amazon Linux 2023 Kernel Livepatch repository  
Dependencies resolved.  
Nothing to do.  
Complete!  
[ec2-user@ip-172-31-90-158 ~]$ █
```

```
sudo yum install python3 python3-pip nginx -y
```

```
Verifying      : nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch
Verifying      : python3-pip-21.3.1-2.amzn2023.0.11.noarch

Installed:
  generic-logos-httd-18.0.0-12.amzn2023.0.3.noarch      gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64      libunwind-1.4.0-5.amzn2023.0.2.1
  nginx-1:1.26.3-1.amzn2023.0.1.x86_64                 nginx-core-1:1.26.3-1.amzn2023.0.1.x86_64      nginx-filesystem-1:1.26.3-1.amzn2023.0.1.x86_64
  python3-pip-21.3.1-2.amzn2023.0.11.noarch

Complete!
```

```
sudo pip3 install virtualenv
```

```
complete!
[127.0.0.1:52435-172-31-90-158 ~]$ sudo pip3 install virtualenv
Collecting virtualenv
  Downloading virtualenv-20.30.0-py3-none-any.whl (4.3 MB)
    [██████████] | 4.3 MB 21.5 MB/s
Collecting filelock<4,>=3.12.2
  Downloading filelock-3.18.0-py3-none-any.whl (16 kB)
Collecting distlib<1,>=0.3.7
  Downloading distlib-0.3.9-py2.py3-none-any.whl (468 kB)
    [██████████] | 468 kB 45.7 MB/s
Collecting platformdirs<5,>=3.9.1
  Downloading platformdirs-4.3.7-py3-none-any.whl (18 kB)
Installing collected packages: platformdirs, filelock, distlib, virtualenv
Successfully installed distlib==0.3.9 filelock==3.18.0 platformdirs==4.3.7 virtualenv==20.30.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with th
arnings/venv
```

```
mkdir myflaskapp  
cd myflaskapp
```

```
Successfully installed distlib-0.3.9 filelock-3.18.0 platformdirs-4.3.7 virtualenv-20.30.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviors
[ec2-user@ip-172-31-90-158 ~]$ mkdir myflaskapp
[ec2-user@ip-172-31-90-158 ~]$ cd myflaskapp
[ec2-user@ip-172-31-90-158 myflaskapp]$
```

```
python3 -m venv venv  
source venv/bin/activate
```

```
WARNING: Running pip as the 'root' user can result in broken permissions an
arnings/venv
[ec2-user@ip-172-31-90-158 ~]$ mkdir myflaskapp
[ec2-user@ip-172-31-90-158 myflaskapp]$ cd myflaskapp
[ec2-user@ip-172-31-90-158 myflaskapp]$ python3 -m venv venv
[ec2-user@ip-172-31-90-158 myflaskapp]$ source venv/bin/activate
(venv) [ec2-user@ip-172-31-90-158 myflaskapp]$
```

```
pip install flask gunicorn
```

```
[selecting virtualenv
Download virtualenv-20.30.0-py3-none-any.whl (4.3 MB)
|██████████| 4.3 MB 21.5 MB/s
collecting filelock<4,>=3.12.2
Download filelock-3.18.0-py3-none-any.whl (16 kB)
collecting distlib<1,>=0.3.7
Download distlib-0.3.9-py2.py3-none-any.whl (468 kB)
|██████████| 468 kB 45.7 MB/s
collecting platformdirs<5,>=3.8.1
Download platformdirs-4.3.7-py3-none-any.whl (18 kB)
installing collected packages: platformdirs, filelock, distlib, virtualenv
successfully installed distlib-0.3.9 filelock-3.18.0 platformdirs-4.3.7 virtualenv-20.30.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use
venv
[ec2-user@ip-172-31-90-158 ~]$ mkdir myflaskapp
[ec2-user@ip-172-31-90-158 ~]$ cd myflaskapp
[ec2-user@ip-172-31-90-158 myflaskapp]$ python3 -m venv venv
[ec2-user@ip-172-31-90-158 myflaskapp]$ source venv/bin/activate
[venv] [ec2-user@ip-172-31-90-158 myflaskapp]$ pip install flask unicorn
collecting flask
Download flask-3.1.0-py3-none-any.whl (102 kB)
|██████████| 102 kB 5.2 MB/s
collecting unicorn
Download unicorn-23.0.0-py3-none-any.whl (85 kB)
|██████████| 85 kB 6.5 MB/s
collecting blinker<1.9
Download blinker-1.9.0-py3-none-any.whl (8.5 kB)
collecting importlib_metadata<3.6
Download importlib_metadata-8.7.0-py3-none-any.whl (27 kB)
collecting itsdangerous<2.2
Download itsdangerous-2.2.0-py3-none-any.whl (16 kB)
collecting Jinja2<3.1.2
Download Jinja2-3.1.6-py3-none-any.whl (134 kB)
|██████████| 134 kB 82.1 MB/s
collecting Werkzeug<3.1
Download werkzeug-3.1.3-py3-none-any.whl (224 kB)
|██████████| 224 kB 97.9 MB/s
collecting click<8.1.3
Download click-8.1.8-py3-none-any.whl (98 kB)
|██████████| 98 kB 15.0 MB/s
collecting packaging
Download packaging-25.0-py3-none-any.whl (66 kB)
|██████████| 66 kB 8.5 MB/s
collecting zipp>3.20
Download zipp-3.21.0-py3-none-any.whl (9.6 kB)
collecting MarkupSafe<2.0
Download MarkupSafe-3.0.2-cp39-cp39-manylinux2_17_x86_64.manylinux2014_x86_64.whl (20 kB)
installing collected packages: zip, MarkupSafe, Werkzeug, packaging, Jinja2, itsdangerous, importlib-metadata, click, blinker, unicorn, flask
successfully installed Jinja2-3.1.6 MarkupSafe-3.0.2 Werkzeug-3.1.3 blinker-1.9.0 click-8.1.8 flask-3.1.0 unicorn-23.0.0 importlib-metadata-8.7.0 itsdangerous-2.2.0
WARNING: You are using pip version 21.3.1; however, version 25.1 is available.
You should consider upgrading via the 'python3 -m pip install --upgrade pip' command.
[venv] [ec2-user@ip-172-31-90-158 myflaskapp]$
```

```
sudo yum install git -y
  Installing : git-2.47.1-1.mzn2023.0.2.x86_64
  Running scriptlet: git-2.47.1-1.mzn2023.0.2.x86_64
  Verifying   : git-2.47.1-1.mzn2023.0.2.x86_64
  Verifying   : git-core-2.47.1-1.mzn2023.0.2.x86_64
  Verifying   : git-core-doc-2.47.1-1.mzn2023.0.2.noarch
  Verifying   : perl-Error-1.0.17029-5.mzn2023.0.2.noarch
  Verifying   : perl-File-Find-1.37-477.mzn2023.0.6.noarch
  Verifying   : perl-Git-2.47.1-1.mzn2023.0.2.noarch
  Verifying   : perl-TermReadKey-2.38-9.mzn2023.0.2.x86_64
  Verifying   : perl-lib-0.65-477.mzn2023.0.6.x86_64

Installed:
  git-2.47.1-1.mzn2023.0.2.x86_64          git-core-2.47.1-1.mzn2023.0.2.x86_64
  perl-File-Find-1.37-477.mzn2023.0.6.noarch perl-Git-2.47.1-1.mzn2023.0.2.noarch

Complete!
```

```
git clone https://github.com/RamishaRaniK/flasktesting.git  
git clone https://github.com/RamishaRaniK/awslocalmodelhosting.git
```

```
[venv] [ec2-user@ip-172-31-90-158 myflaskapp]$ git clone https://github.com/RamishaRaniK/flasktesting.git  
Cloning into 'flasktesting'...  
remote: Enumerating objects: 3, done.  
remote: Counting objects: 100% (3/3), done.  
remote: Compressing objects: 100% (2/2), done.  
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)  
Receiving objects: 100% (3/3), done.  
[venv] [ec2-user@ip-172-31-90-158 myflaskapp]$
```

```
cd flasktesting          (fetch 0, 0 (fetch 0), pack 0 (fetch 0)
Receiving objects: 100% (3/3), done.
[venv] [ec2-user@ip-172-31-90-158 myflaskapp]$ cd flasktesting
[venv] [ec2-user@ip-172-31-90-158 flasktesting]$ pip install -r requirements.txt
```

AWS | Search [Alt+S]

```

worker_processes auto;
error log /var/log/nginx/error.log notice;
pid /run/nginx.pid;

# Load dynamic modules. See /usr/share/doc/nginx/README.dynamic.
include /usr/share/nginx/modules/*.conf;

events {
    worker_connections 1024;
}

http {
    log_format main '$remote_addr - $remote_user [$time_local] "$request" '
                    '$status $body_bytes_sent "$http_referer" '
                    '"$http_user_agent" "$http_x_forwarded_for"';

    access_log /var/log/nginx/access.log main;

    sendfile on;
    tcp_nopush on;
    keepalive_timeout 65;
    types_hash_max_size 4096;

    include /etc/nginx/mime.types;
    default_type application/octet-stream;

    # Load modular configuration files from the /etc/nginx/conf.d directory.
    # See http://nginx.org/en/docs/ngx_core_module.html#include
    # for more information.
    include /etc/nginx/conf.d/*.conf;

    server {
        listen 80;
        listen [::]:80;
        server_name _;
        root /usr/share/nginx/html;

        # Load configuration files for the default server block.
        include /etc/nginx/default.d/*.conf;
    }
}

```

Scroll down , by cursor and delete server
Replace with below given code

```

# Load modular configuration files from the /etc/nginx/conf.d directory.
# See http://nginx.org/en/docs/ngx_core_module.html#include
# for more information.
include /etc/nginx/conf.d/*.conf;

server {
    listen 80;
    listen [::]:80;
    server_name _;
    root /usr/share/nginx/html;

    # Load configuration files for the default server block.
    include /etc/nginx/default.d/*.conf;

    error_page 404 /404.html;
    location = /404.html {
    }

    error_page 500 502 503 504 /50x.html;
    location = /50x.html {
    }
}

Settings for a TLS enabled server.

server {
    listen 443 ssl;
    listen [::]:443 ssl;
    http2 on;
    server_name _;
    root /usr/share/nginx/html;

    ssl_certificate "/etc/pki/nginx/server.crt";
    ssl_certificate_key "/etc/pki/nginx/private/server.key";
    ssl_session_cache shared:SSL:1m;
    ssl_session_timeout 10m;
    ssl_ciphers PROFILE=SYSTEM;
    ssl_prefer_server_ciphers on;
}

```

```

server {
    listen 80;
    server_name your-ec2-ip; # or your domain if you have

    location /{
        proxy_pass http://127.0.0.1:5000;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Forwarded-Proto $scheme;
    }
}

```

```

aws | Search [Alt+S]

# Load modular configuration files from the /etc/nginx/conf.d directory
# See http://nginx.org/en/docs/ngx_core_module.html#include
# for more information.
include /etc/nginx/conf.d/*.conf;

server {
    listen 80;
    server_name your-ec2-ip; # or your domain if you have

    location / {
        proxy_pass http://127.0.0.1:5000;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Forwarded-Proto $scheme;
    }
}

# Settings for a TLS enabled server.

server {
    listen 443 ssl;
}

```

The screenshot shows the AWS EC2 Instances page. It lists two instances: 'flaskwebport' and 'Myapp'. Both instances are running and assigned to the 'us-east-1c' availability zone. Their public IP addresses are 3.87.132.13 and 3.84.188.19 respectively. The 'Myapp' instance was launched on April 27, 2015, at 22:28:46 UTC.

Instances (1/2) info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4	Elastic IP
flaskwebport	i-0aefab7e721a1c1	Running	t2.micro	2/2 checks passed	View alarms 4	us-east-1c	ec2-3-87-13-213.com...	3.87.132.13	-
Myapp	i-0b0c9f641facd6739	Running	t2.micro	2/2 checks passed	View alarms 4	us-east-1c	ec2-3-84-188-19.com...	3.84.188.19	-

i-0b0c9f641facd6739 (Myapp)

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

Security details

- IAM Role: -
- Owner ID: 253490756809
- Launch time: Sun Apr 27 2015 22:28:46 GMT+0530 (India Standard Time)

Network & Security

- Security groups: sg-dfbfaad562fc49f3 (Launch-wizard-4)

Details

Instance summary for i-0b0c9f641facd6739 (Myapp)

Public IPv4 address: 3.84.188.19 [Open address]

Instance state: Running

Private IP address (IPv4 only): ip-172-31-90-158.ec2.internal

Answer private resource DNS name: IPv(A)

Auto-assigned IP address: t2.micro

VPC ID: vpc-00c7890bd055f961

Subnet ID: subnet-0ebfbf90a0ec20c1b

Instance ARN: arn:aws:ec2:us-east-1:253490754689:instance/i-0b0c9f641facd6739

Private IPv4 addresses: 172.31.90.158

Public IPv4 DNS: ec2-3-84-188-19.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

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

```

# Load modular configuration files from the /etc/nginx/conf.d directory.
# See http://nginx.org/en/docs/ngx_core_module.html#include
# for more information.
include /etc/nginx/conf.d/*.conf;

server {
    listen 80;
    server_name 3.84.188.19; # or your domain if you have

    location / {
        proxy_pass http://127.0.0.1:5000;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Forwarded-Proto $scheme;
    }
}

# Settings for a TLS enabled server.

server {
    listen 443 ssl;
    listen [::]:443 ssl;
    http2 on;
    server_name ;
    root /usr/share/nginx/html;
    ssl_certificate "/etc/nginx/server.crt";
}

```

Ctrl+S

Ctrl+X --? exit

```

Complete!
(venv) [ec2-user@ip-172-31-90-158 myflaskapp]$ git clone https://github.com/RamishaRaniK/flasktesting.git
Cloning into 'flasktesting'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (3/3), done.
remote: Writing objects: 100% (3/3), done.
Receiving objects: 100% (3/3), done.
(venv) [ec2-user@ip-172-31-90-158 myflaskapp]$ cd flasktesting
(venv) [ec2-user@ip-172-31-90-158 flasktesting]$ sudo nano /etc/nginx/nginx.conf
(venv) [ec2-user@ip-172-31-90-158 flasktesting]$ 

```

sudo nginx -t

```

(venv) [ec2-user@ip-172-31-90-158 myflaskapp]$ cd flasktesting
(venv) [ec2-user@ip-172-31-90-158 flasktesting]$ sudo nano /etc/nginx/nginx.conf
(venv) [ec2-user@ip-172-31-90-158 flasktesting]$ sudo nginx -t

```

```
sudo nginx -t
```

```
[venv] [ec2-user@ip-172-31-90-158 myflaskapp]$ cd flasktesting
[venv] [ec2-user@ip-172-31-90-158 flasktesting]$ sudo nano /etc/nginx/nginx.conf
[venv] [ec2-user@ip-172-31-90-158 flasktesting]$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
[venv] [ec2-user@ip-172-31-90-158 flasktesting]$
```

```
sudo systemctl restart nginx
```

```
[venv] [ec2-user@ip-172-31-90-158 myflaskapp]$ git clone https://github.com/RamishaRaniK/flasktesting.git
Cloning into 'flasktesting'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (from 0)
Receiving objects: 100% (3/3), done.
[venv] [ec2-user@ip-172-31-90-158 myflaskapp]$ cd flasktesting
[venv] [ec2-user@ip-172-31-90-158 flasktesting]$ sudo nano /etc/nginx/nginx.conf
[venv] [ec2-user@ip-172-31-90-158 flasktesting]$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
[venv] [ec2-user@ip-172-31-90-158 flasktesting]$ sudo systemctl restart nginx
[venv] [ec2-user@ip-172-31-90-158 flasktesting]$
```

unicorn -w 3 -b 0.0.0.0:5000 app:app

```
nginx: configuration file /etc/nginx/nginx.conf test is successful
[venv] [ec2-user@ip-172-31-90-158 flasktesting]$ sudo systemctl restart nginx
[venv] [ec2-user@ip-172-31-90-158 flasktesting]$ curl http://0.0.0.0:5000/app:app
[2023-04-27 18:16:22 +0000] [30105] [INFO] Starting unicorn 23.0.0
[2023-04-27 18:16:22 +0000] [30105] [INFO] Listening at: http://0.0.0.0:5000 (30105)
[2023-04-27 18:16:22 +0000] [30105] [INFO] Using worker: sync
[2023-04-27 18:16:22 +0000] [30105] [INFO] Worker processes: 3
[2023-04-27 18:16:22 +0000] [30107] [INFO] Booting worker with pid: 30106
[2023-04-27 18:16:22 +0000] [30108] [INFO] Booting worker with pid: 30107
[2023-04-27 18:16:22 +0000] [30108] [INFO] Booting worker with pid: 30108
```

Instance summary for i-0b0c9f641facd6739 (Myapp) Info

Updated 5 minutes ago

Instance ID Copy i-0b0c9f641facd6739

IPv4 address Copy 3.84.188.19 [Public IP]

Hostname type Copy ip-name-ip-172-31-90-158.ec2.internal

Answer private DNS name Copy (IPv4)

Auto-assigned IP address Copy 172.31.90.158 [Private IP]

AMI Role Copy

IMDv2 Required

Operator Copy

Details Status and alarms Monitoring Security Networking Storage Tags

▼ Instance details Info

AMI ID Copy ami-04d992758d45bc4	Monitoring Copy disabled	Platform details Copy Linux/UNIX
AMI name Copy a2023-sni-2023.7.20250414.0-kernel-6.1-v86_64	Allowed image Copy -	Termination protection Copy disabled
Stop protection Copy disabled	Launch time Copy Sun Apr 27 2023 22:28:46 GMT+0530 (India Standard Time) (about 1 hour)	AMI location Copy amazon/amazon-ami-2023.7.20250414.0-kernel-6.1-v86_64

View Copy https://3.84.188.19

Connect Copy https://3.84.188.19

Instance state Copy Running

Private IPv4 addresses Copy 172.31.90.158

Public IPv4 address Copy 3.84.188.19 [Compute 1.amazonaws.com] open address

Private IP DNS name (IPv4 only) Copy 172.31.90.158

Elastic IP addresses Copy 3.84.188.19

AWS Compute Optimizer Copy Off by default. Learn more

Auto Scaling Group name Copy False

Managed Copy false

This site can't be reached

3.84.188.19 refused to connect.

Try:

- Checking the connection
- Checking the proxy and the firewall

ERR_CONNECTION_REFUSED

Reload



This site can't be reached

3.84.188.19 refused to connect.

Try:

- Checking the connection
- Checking the proxy and the firewall

ERR_CONNECTION_REFUSED

Reload

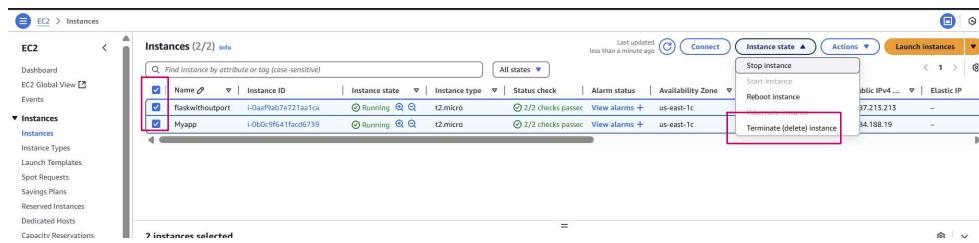
← → ⌂ △ Not secure 3.84.188.19

⌚ Your Flask Insurance App is Live on EC2!

If you are practicing delete it

Your Flask Insurance App is Live on EC2!

If you are practicing delete it



EC2 Instances

Instances (2/2) info

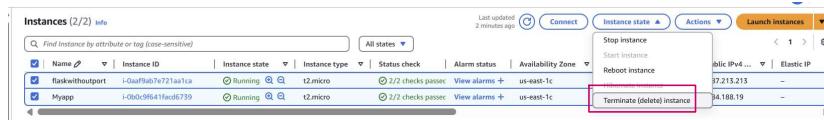
Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 IP	Elastic IP
flaskwithoutport	i-0aa9ab7e721aa1ca	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1c	ec2-3-87-215-215.com...	3.87.215.215	-
Myapp	i-0b0c9f641facd6739	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1c	ec2-3-84-188-19.com...	3.84.188.19	-

2 instances selected

Last updated less than a minute ago

Actions

- Stop instance
- Start instance
- Reboot instance
- Terminate (delete) instance



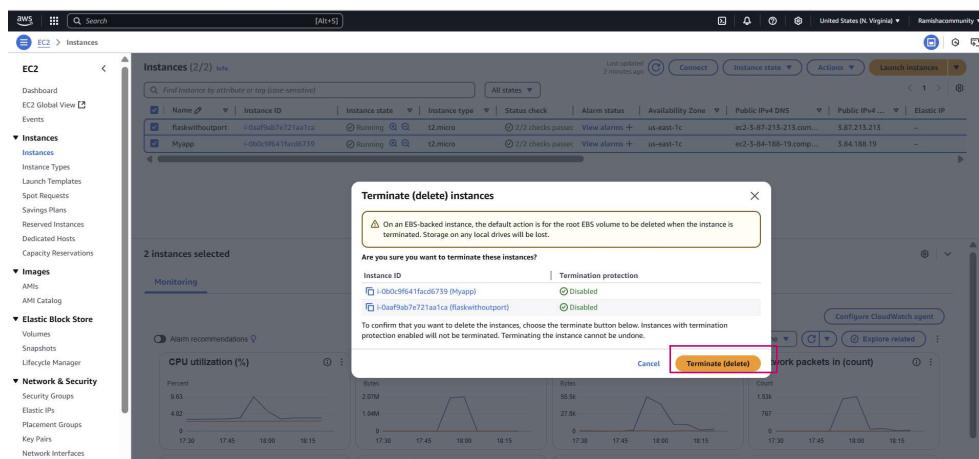
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Last updated 2 minutes ago

Actions

- Stop instance
- Start instance
- Reboot instance
- Terminate (delete) instance



EC2 Instances

Instances (2/2) info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 IP	Elastic IP
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Myapp	i-0b0c9f641facd6739	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1c	ec2-3-84-188-19.com...	3.84.188.19	-

2 instances selected

Last updated 2 minutes ago

Actions

Termination protection

Are you sure you want to terminate these instances?

Instance ID

flaskwithoutport (i-0aa9ab7e721aa1ca) - Disbled

Myapp (i-0b0c9f641facd6739) - Disbled

To confirm that you want to delete the instances, choose the terminate button below. Instances with termination protection enabled will not be terminated. Terminating the instance cannot be undone.

Configure CloudWatch agent

Terminate (delete)

Cancel

Network & Security

Monitoring

CPU utilization (%)

Security Groups

Volumes

Snapshots

Lifecycle Manager

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

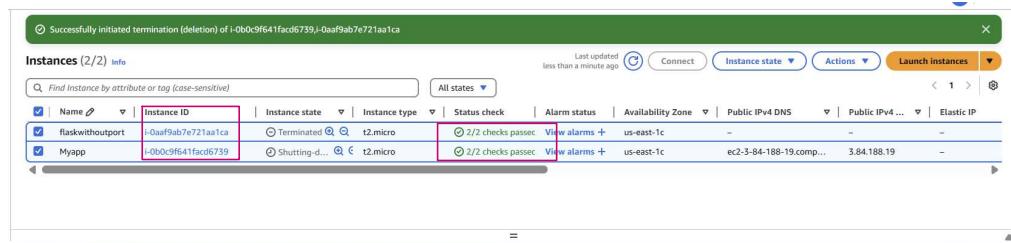
Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces



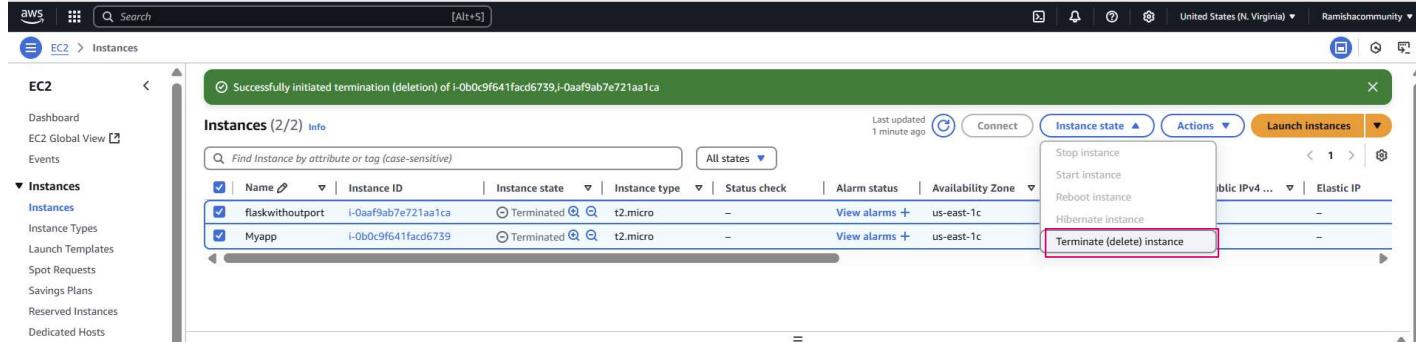
Successfully initiated termination (deletion) of i-0b0c9f641facd6739,i-0aa9ab7e721aa1ca

Instances (2/2) info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 IP	Elastic IP
flaskwithoutport	i-0aa9ab7e721aa1ca	Terminated	t2.micro	2/2 checks passed	View alarms +	us-east-1c	-	-	-
Myapp	i-0b0c9f641facd6739	Shutting down...	t2.micro	2/2 checks passed	View alarms +	us-east-1c	ec2-3-84-188-19.com...	3.84.188.19	-

Last updated less than a minute ago

Actions



Successfully initiated termination (deletion) of i-0b0c9f641facd6739,i-0aa9ab7e721aa1ca

Instances (2/2) info

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Myapp	i-0b0c9f641facd6739	Terminated	t2.micro	-	View alarms +	us-east-1c	-	-	-

Last updated 1 minute ago

Actions

Stop instance

Start instance

Reboot instance

Hibernate instance

Terminate (delete) instance

EC2 Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

To get into https:

! Important Concept:

Access	HTTPS Possible?	Why?
3.87.213.213 (only IP)	✗ Not possible	SSL Certificates need domain name
yourdomain.com	✓ Possible	SSL certificates are issued to domain names

🎯 Now next important thing:

You have two choices regarding using `hopelearning.net`:

Option	Meaning	Best For
Use a Subdomain (Recommended)	Create a subdomain like <code>flask.hopelearning.net</code> and point to your EC2 instance	Safe, no impact on main site
Use Main Domain	Move entire <code>hopelearning.net</code> to EC2	Risky, your current WordPress site will break

`flask.hopelearning.net`
`api.hopelearning.net`
`ec2.hopelearning.net`

```
sudo yum install epel-release -y
sudo yum install certbot python3-certbot-nginx -y
sudo certbot --nginx -d flask.hopelearning.net
```

<https://flask.hopelearning.net/>

To run unicorn in backend service(Production Level)

🚀 2 Powerful Ways to Embed Your Flask App Inside Main Website

✓ 1. Using <iframe>

The simplest way is to use an `iframe` — it embeds another web page inside your existing page.

Example:

On your WordPress (or custom HTML page), insert:

```
html
Copy Edit
<iframe src="https://flask.hopelearning.net" width="100%" height="600px" frameborder="0"></iframe>
```

`unicorn -w 3 -b 127.0.0.1:5000 app:app &`

✓ If you want quick temporary fix:

One-line command:

```
bash
unicorn -w 3 -b 127.0.0.1:5000 app:app &
```

✓ The `&` at the end sends Gunicorn to `background`.

Then you can safely close SSH tab, Gunicorn keeps running.
(But if server reboots, it won't restart.)

If you want professional full setup (Recommended):

We create a `systemd` service file.

Example service: `/etc/systemd/system/flaskapp.service`

```
ini                                         ⌂ Copy ⌂ Edit

[Unit]
Description=Gunicorn instance to serve Flask app
After=network.target

[Service]
User=ec2-user
Group=nginx
WorkingDirectory=/home/ec2-user/flasktesting
Environment="PATH=/home/ec2-user/flasktesting/venv/bin"
ExecStart=/home/ec2-user/flasktesting/venv/bin/gunicorn -w 3 -b 127.0.0.1:5000 app:app

[Install]
WantedBy=multi-user.target
```

Then you can control Gunicorn with:

```
bash                                         ⌂ Copy ⌂ Edit

sudo systemctl start flaskapp
sudo systemctl enable flaskapp
sudo systemctl status flaskapp
```

⚠ Auto-run forever even if EC2 rebooted.

⚠ Not secure 54.83.148.70

Chronic Kidney Disease Prediction

Age:

Blood Pressure:

Specific Gravity:

Albumin:

Sugar:

To kill previous Gunicorn use below comment

```
sudo lsof -i:5000
Sudo kill -9 pid
sudo fuser -k 5000/tcp
To troubleshoot nginx issue blow command
```

```
sudo systemctl restart nginx
Sudo nginx -t
```