

Project deployment on cloud using EC2

Launch an instance | EC2 Manage

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

Services Search [Alt+S]

EC2 > Instances > Launch an instance

Launch an instance

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

Name

Heartapp

Add additional tags

Application and OS Images (Amazon Machine Image)

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

Search our full catalog including 1000s of application and OS images

Quick Start

macOS

Ubuntu

Windows

Red Hat

SUSE Linux

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type

ami-007855ac798b5175e (64-bit (x86)) / ami-0c6c29c5125214c77 (64-bit (Arm))

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

Free tier eligible

Summary

Number of instances 1

Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-007855ac798b5175e

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

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

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel Launch instance Review commands

Quick Start

macOS



Ubuntu



Windows



Red Hat



SUSE Linux





[Browse more AMIs](#)

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Amazon Machine Image (AMI)

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Description

Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2023-03-25

Architecture

AMI ID

64-bit (x86)



ami-007855ac798b5175e

Verified provider

▼ Instance type [Info](#)

Instance type

t2.micro Free tier eligible
Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Windows pricing: 0.0162 USD per Hour
On-Demand SUSE pricing: 0.0116 USD per Hour
On-Demand RHEL pricing: 0.0716 USD per Hour
On-Demand Linux pricing: 0.0116 USD per Hour

☒ 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*

MyKey

 [Create new key pair](#)

▼ Network settings [Info](#)

[Edit](#)

Network [Info](#)

vpc-09407bf0cef513e1d

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.

▼ Network settings [Info](#)

[Edit](#)

Network [Info](#)

vpc-09407bf0cef513e1d

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


We'll create a new security group called 'launch-wizard-6' with the following rules:

☒ Allow SSH traffic from
Helps you connect to your instance

Anywhere
0.0.0.0/0

☒ Allow HTTPS traffic from the internet
To set up an endpoint, for example when creating a web server

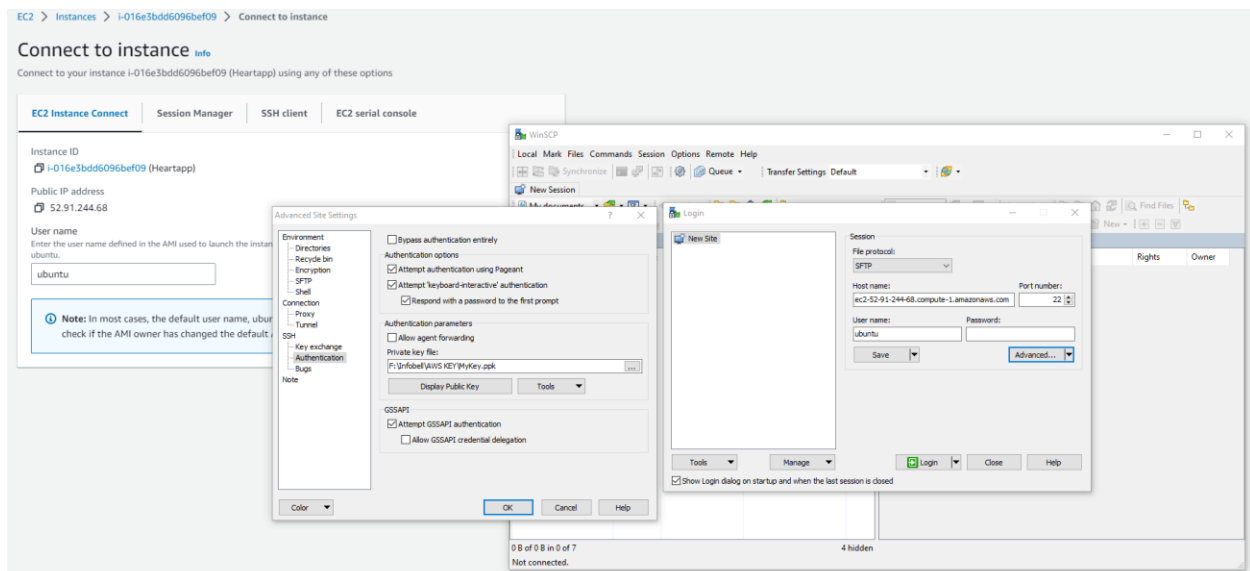
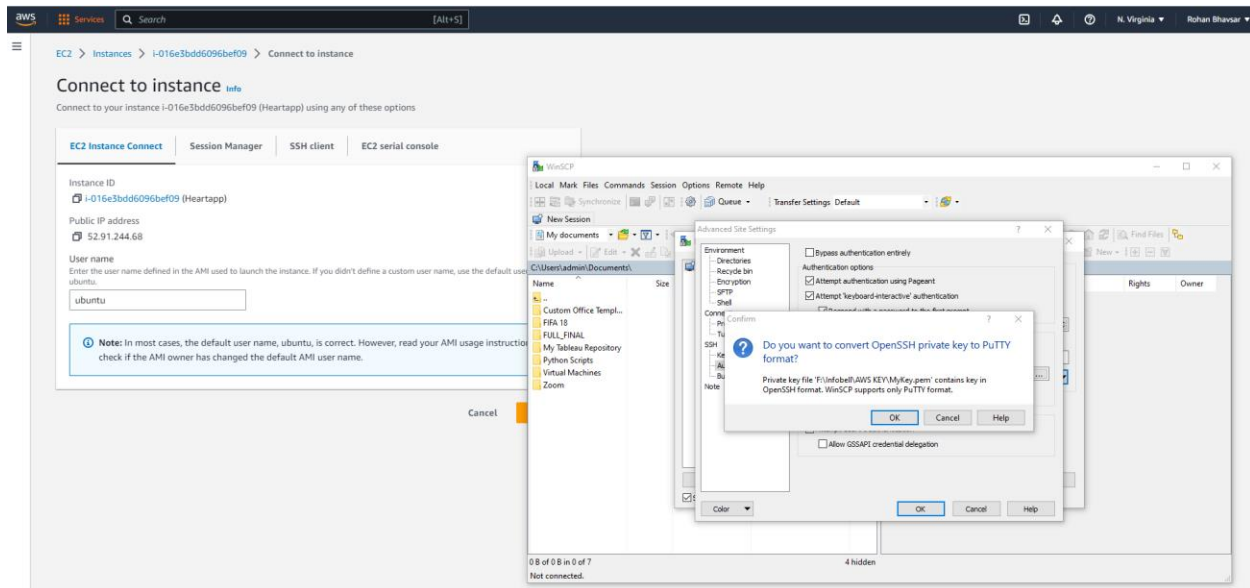
☒ Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server

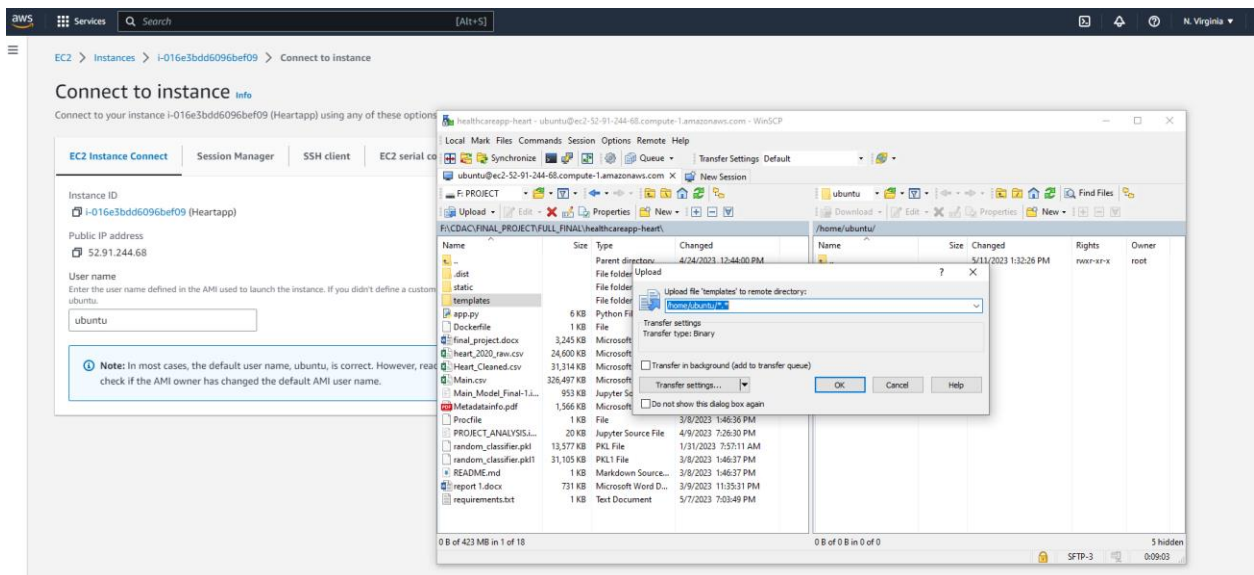
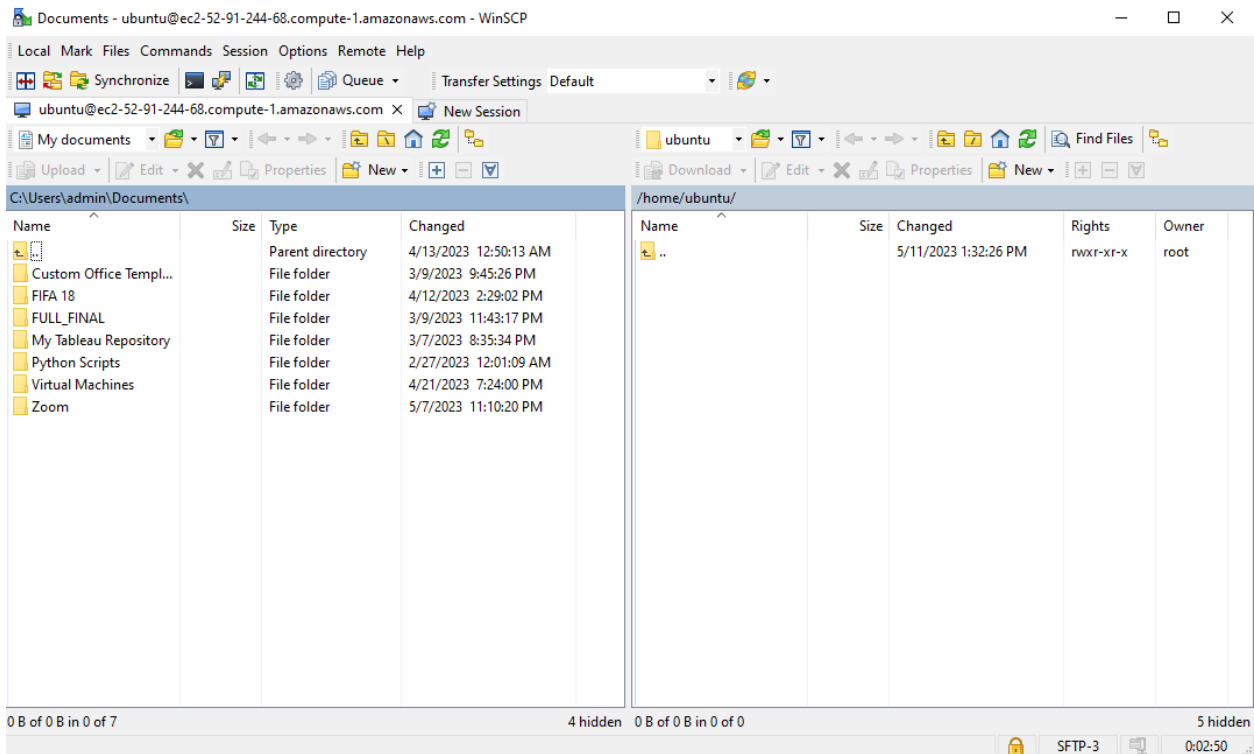
 Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only. [×](#)

Instances (1) [Info](#)

[Refresh](#) [Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input type="checkbox"/>	Heartapp	i-016e3bdd6096bef09	Running	t2.micro	Initializing	No alarms	us-east-1c	ec2-52-91-244-68.com...	52.91.244.68	-





ubuntu - ubuntu@ec2-52-91-244-68.compute-1.amazonaws.com - WinSCP

Local Mark Files Commands Session Options Remote Help

Synchronize Queue Transfer Settings Default

ubuntu@ec2-52-91-244-68.compute-1.amazonaws.com X New Session

F: PROJECT

Upload Edit Properties New

F:\CDAC\FINAL_PROJECT\FULL_FINAL\healthcareapp-heart\

Name	Size	Type	Changed
..		Parent directory	4/24/2023 12:4
.dist		File folder	3/8/2023 12:23
static		File folder	3/8/2023 1:46:3
templates		File folder	3/8/2023 1:46:4
app.py	6 KB	Python File	4/9/2023 7:26:3
Dockerfile	1 KB	File	5/7/2023 7:56:5
final_project.docx	3,245 KB	Microsoft Word D...	3/15/2023 9:39
heart_2020_raw.csv	24,600 KB	Microsoft Excel C...	2/22/2023 4:20
Heart_Cleaned.csv	31,314 KB	Microsoft Excel C...	3/8/2023 1:46:3
Main.csv	326,497 KB	Microsoft Excel C...	2/22/2023 1:40
Main_Model_Final-1.ipynb	953 KB	Jupyter Source File	4/9/2023 7:26:3
Metadatainfo.pdf	1,566 KB	Microsoft Edge P...	3/8/2023 1:46:3
Procfile	1 KB	File	3/8/2023 1:46:3
PROJECT_ANALYSIS.ipynb	20 KB	Jupyter Source File	4/9/2023 7:26:3
random_classifier.pkl	13,577 KB	PKL File	1/31/2023 7:57
random_classifier.pkl1	31,105 KB	PKL1 File	3/8/2023 1:46:3
README.md	1 KB	Markdown Source...	3/8/2023 1:46:3
report.1.docx	731 KB	Microsoft Word D...	3/9/2023 11:35
requirements.txt	1 KB	Text Document	5/7/2023 7:03:4

0 B of 423 MB in 0 of 18

ubuntu /home/ubuntu/

Download Edit Properties New Find Files

Name	Size	Changed	Rights	Owner
..		5/11/2023 1:32:26 PM	rw-r-xr-x	root
static		5/11/2023 1:53:09 PM	rw-rw-r-x	ubuntu
templates		5/11/2023 1:52:49 PM	rw-rw-r-x	ubuntu
app.py	6 KB	4/9/2023 7:26:30 PM	rw-rw-r--	ubuntu
Dockerfile	1 KB	5/7/2023 7:56:52 PM	rw-rw-r--	ubuntu
Main_Model_Final-1.i...	953 KB	4/9/2023 7:26:30 PM	rw-rw-r--	ubuntu
PROJECT_ANALYSIS.i...	20 KB	4/9/2023 7:26:30 PM	rw-rw-r--	ubuntu
random_classifier.pkl	13,577 KB	1/31/2023 7:57:11 AM	rw-rw-r--	ubuntu
random_classifier.pkl1	31,105 KB	3/8/2023 1:46:37 PM	rw-rw-r--	ubuntu
requirements.txt	1 KB	5/7/2023 7:03:49 PM	rw-rw-r--	ubuntu

0 B of 44.5 MB in 0 of 9

6 hidden

SFTP-3 0:13:09

ubuntu@ip-172-31-24-133: ~

Using username "ubuntu".

Authenticating with public key "imported-openssh-key"

Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-1031-aws x86_64)

* Documentation: <https://help.ubuntu.com>

* Management: <https://landscape.canonical.com>

* Support: <https://ubuntu.com/advantage>

System information as of Thu May 11 08:27:57 UTC 2023

System load: 0.0 Processes: 99

Usage of /: 21.0% of 7.57GB Users logged in: 0

Memory usage: 21% IPv4 address for eth0: 172.31.24.133

Swap usage: 0%

* Introducing Expanded Security Maintenance for Applications.
Receive updates to over 25,000 software packages with your
Ubuntu Pro subscription. Free for personal use.

<https://ubuntu.com/aws/pro>

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See <https://ubuntu.com/esm> or run: `sudo pro status`

 ubuntu@ip-172-31-24-133: ~

The list of available updates is more than a week old.
To check for new updates run: `sudo apt update`

To run a command as administrator (user "root"), use "`sudo <command>`".
See "`man sudo_root`" for details.

ubuntu@ip-172-31-24-133:~\$ `python`

Command 'python' not found, did you mean:

command 'python3' from deb python3

command 'python' from deb python-is-python3

ubuntu@ip-172-31-24-133:~\$ `sudo apt install python`

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

Package python is not available, but is referred to by another package.

This may mean that the package is missing, has been obsoleted, or
is only available from another source

However the following packages replace it:

python-is-python3

E: Package 'python' has no installation candidate

ubuntu@ip-172-31-24-133:~\$ `sudo apt install python3`

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

python3 is already the newest version (3.10.6-1~22.04).

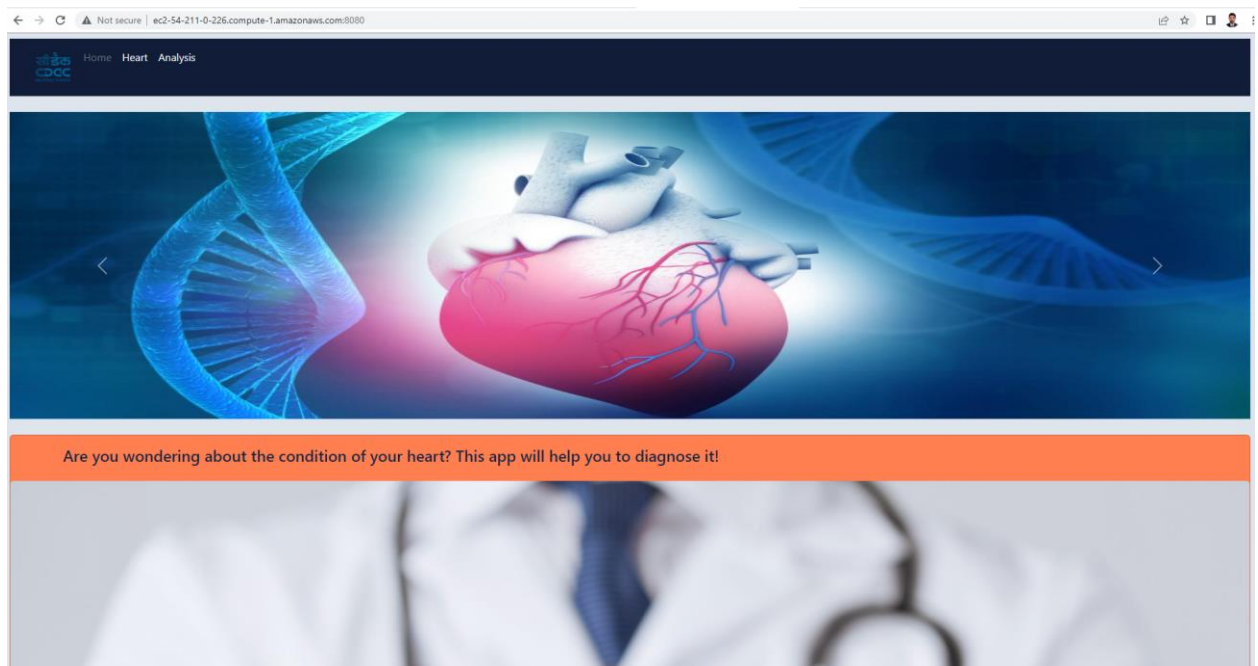
python3 set to manually installed.

0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

ubuntu@ip-172-31-24-133:~\$


```
ubuntu@ip-172-31-24-133: ~  
Requirement already satisfied: MarkupSafe in /usr/lib/python3/dist-packages (from -r requirements.txt (line 5)) (2.0.1)  
Collecting Werkzeug  
  Downloading Werkzeug-2.3.4-py3-none-any.whl (242 kB)  
----- 242.5/242.5 KB 19.9 MB/s eta 0:00:00  
Collecting numpy  
  Downloading numpy-1.24.3-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (17.3 MB)  
----- 17.3/17.3 MB 52.7 MB/s eta 0:00:00  
Collecting scikit-learn  
  Downloading scikit_learn-1.2.2-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (9.6 MB)  
----- 9.6/9.6 MB 70.7 MB/s eta 0:00:00  
Collecting Jinja2  
  Downloading Jinja2-3.1.2-py3-none-any.whl (133 kB)  
----- 133.1/133.1 KB 15.5 MB/s eta 0:00:00  
Collecting blinker>=1.6.2  
  Downloading blinker-1.6.2-py3-none-any.whl (13 kB)  
Collecting click>=8.1.3  
  Downloading click-8.1.3-py3-none-any.whl (96 kB)  
----- 96.6/96.6 KB 13.7 MB/s eta 0:00:00  
Requirement already satisfied: setuptools>=3.0 in /usr/lib/python3/dist-packages (from gunicorn->-r requirements.txt (line 2)) (59.6.0)  
Collecting MarkupSafe  
  Downloading MarkupSafe-2.1.2-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (25 kB)  
Collecting scipy>=1.3.2  
  Downloading scipy-1.10.1-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (34.4 MB)  
----- 34.4/34.4 MB 14.7 MB/s eta 0:00:00  
Collecting joblib>=1.1.1  
  Downloading joblib-1.2.0-py3-none-any.whl (297 kB)  
----- 298.0/298.0 KB 25.9 MB/s eta 0:00:00  
Collecting threadpoolctl>=2.0.0  
  Downloading threadpoolctl-3.1.0-py3-none-any.whl (14 kB)  
Installing collected packages: threadpoolctl, numpy, MarkupSafe, joblib, itsdangerous, gunicorn, click, blinker, Werkzeug, scipy, Jinja2, scikit-learn, Flask  
  WARNING: The scripts f2py, f2py3 and f2py3.10 are installed in '/home/ubuntu/.local/bin' which is not on PATH.  
    Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.  
  WARNING: The script gunicorn is installed in '/home/ubuntu/.local/bin' which is not on PATH.  
    Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.  
  WARNING: The script flask is installed in '/home/ubuntu/.local/bin' which is not on PATH.  
    Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.  
Successfully installed Flask-2.3.2 Jinja2-3.1.2 MarkupSafe-2.1.2 Werkzeug-2.3.4 blinker-1.6.2 click-8.1.3 gunicorn-20.1.0 itsdangerous-2.1.2 joblib-1.2.0 numpy-1.24.3 scikit-learn-1.2.2 scipy-1.10.1 threadpoolctl-3.1.0  
ubuntu@ip-172-31-24-133:~$
```

```
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Collecting scipy>=1.3.2
  Downloading scipy-1.10.1-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (34.4 MB)
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Collecting joblib>=1.1.1
  Downloading joblib-1.2.0-py3-none-any.whl (297 kB)
----- 298.0/298.0 KB 25.9 MB/s eta 0:00:00
Collecting threadpoolctl>=2.0.0
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ubuntu@ip-172-31-24-133:~$ python app.py
Command 'python' not found, did you mean:
  command 'python3' from deb python3
  command 'python' from deb python-is-python3
ubuntu@ip-172-31-24-133:~$ python3 app.py
/home/ubuntu/.local/lib/python3.10/site-packages/sklearn/base.py:318: UserWarning: Trying to unpickle estimator DecisionTreeClassifier from version 1.0.2 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk. For more info please refer to: https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
/home/ubuntu/.local/lib/python3.10/site-packages/sklearn/base.py:318: UserWarning: Trying to unpickle estimator RandomForestClassifier from version 1.0.2 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk. For more info please refer to: https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
 * Serving Flask app 'app'
 * Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on all addresses (0.0.0.0)
 * Running on http://127.0.0.1:5000
 * Running on http://172.31.24.133:5000
Press CTRL+C to quit
```



← → Not secure | ec2-54-211-0-226.compute-1.amazonaws.com:8080/heart

Home Heart Analysis

Select your Gender.
Male

Select your Age category.
25 <= AGE <= 34

Select your Marital Status.
Married

What is your Ethnicity?
white

Select your BMI Category?
Under/Weight (BMI < 18.50)

Select the smoking category you fall under.
Smoke Some day

Have you played any sports (running, biking, etc.) in the past month?
Yes

Defined your General Health.
Very Good

Do you have serious difficulty walking or climbing stairs?
Yes

For how many days during the past 30 days your physical health not good?
20

Do you dad Stroke before?
Yes


Do you had a heart attack, also called a myocardial infarction?
No

Do you have any Kidney diseases?
Yes

Do you have any Cancer Other than Skin Cancer?

← → Not secure | ec2-54-211-0-226.compute-1.amazonaws.com:8080/result

Home Heart Result



Heart status is --> Good