

Assignment – 7

Problem Statement: -

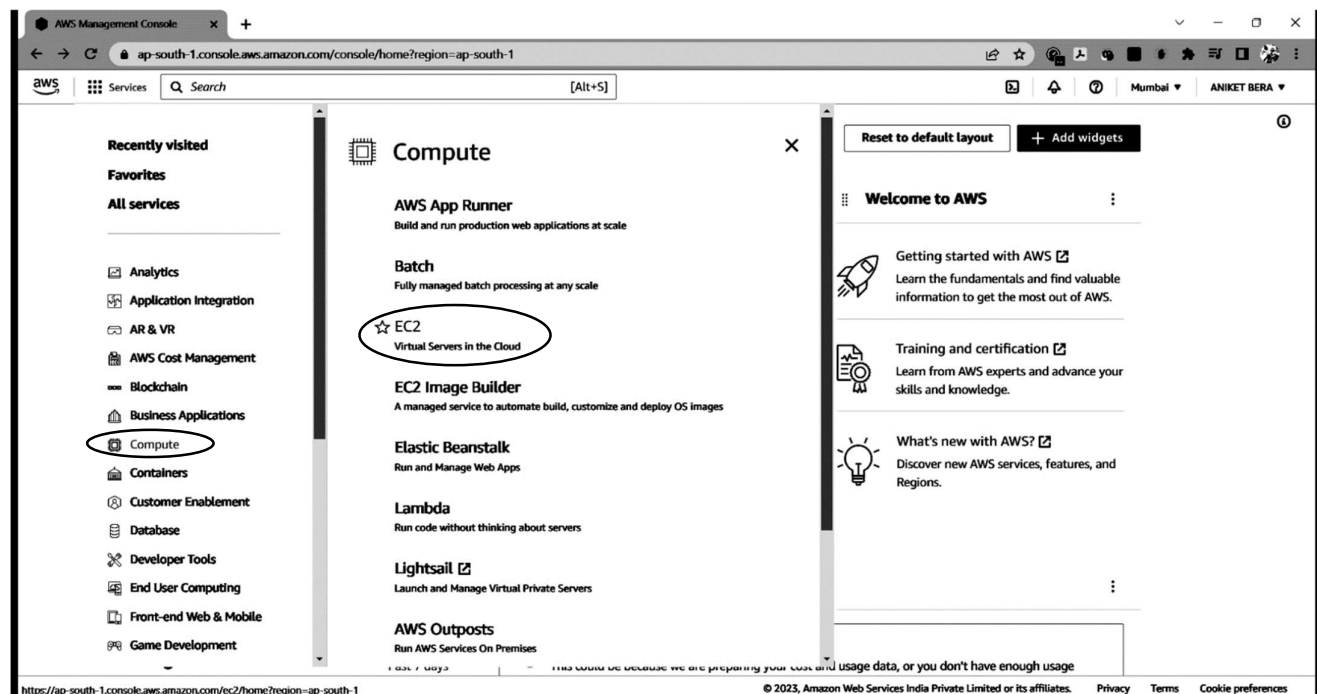
Upload a static website in EC2.

Steps for uploading a static website in EC2: -

1. Open the **Amazon Web Services** (<https://aws.amazon.com/console/>) home page.
2. Log in your **AWS Management Console** account.
3. Go to **Services** and click on **Compute**.
4. Next go to **EC2**.
5. Then click on **Launch instance**. Give a name of instance, select *Application and OS Images* (E.g.- Ubuntu), choose *Instance type* (E.g. – t2.micro), *Create new key pair* (key pair type – RSA & private key file format - .pem). After that check the boxes (Allow SSH traffic from, Allow HTTPS traffic from the internet, Allow HTTP traffic from the internet) in Network setting.
6. Now Launch instance.
7. Click on **Instance ID** and copy **Public IPv4 address**.
8. Install **Bitvise SSH Client**.
 - a. Copied *IP address* put in **Server host**.
 - b. Go *Client key manager* import key pair (.pem file).
 - c. Set **Authentication** like as *Username ubuntu*, *Initial method publickey*, *Client key Global 1*, *Elevation as it Default*. Now **Log in & Accept and Save**.
 - d. Go ubuntu terminal and run bellow commands:

```
sudo apt-get update
sudo apt-get upgrade
sudo apt-get install nginx
pwd                               #check present working directory
cd /                               #change the directory
cd var/www/
sudo chmod 777 html               #give permission to html directory
```
 - e. Copy .html file local machine to ubuntu.
9. Now copy **Public IPv4 address** and paste it any web browser. Now web browser open your website.

Some snapshots of above process: -



Step 1: Go EC2

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Launch instance

Migrate a server

Step 2: Launce instance

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

aniketOS17

Add additional tags

Step 3

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

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

Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

S

Browse more AMIs

Amazon Machine Image (AMI)

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type

ami-0f8ca728008ff5af4 (64-bit (x86)) / ami-08795883c7b4b7140 (64-bit (Arm))

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

Free tier eligible

Description

Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2023-02-08

Architecture

AMI ID

Verified provider

Step 4

Instance type

Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory

On-Demand Linux pricing: 0.0124 USD per Hour

On-Demand Windows pricing: 0.017 USD per Hour

On-Demand RHEL pricing: 0.0724 USD per Hour

On-Demand SUSE pricing: 0.0124 USD per Hour

Free tier eligible

Step 5

Create key pair

Key pairs allow you to connect to your instance securely.

Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance.

Key pair name

keyAB

The name can include upto 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

RSA

RSA encrypted private and public key pair

ED25519

ED25519 encrypted private and public key pair (Not supported for Windows instances)

Private key file format

.pem

For use with OpenSSH

.ppk

For use with PuTTY

Cancel

Create key pair

Step 6

Network settings

Network Info

vpc-029d3ec53a57486a4

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-1' with the following rules:

Allow SSH traffic from

Helps you connect to your instance

Anywhere

Allow HTTPS traffic from the internet

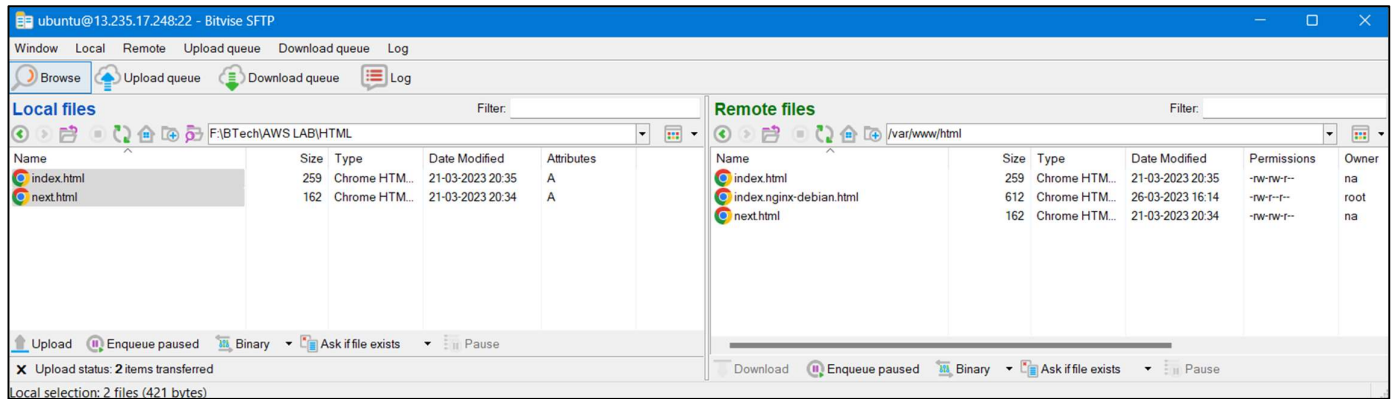
To set up an endpoint, for example when creating a web server

Allow HTTP traffic from the internet

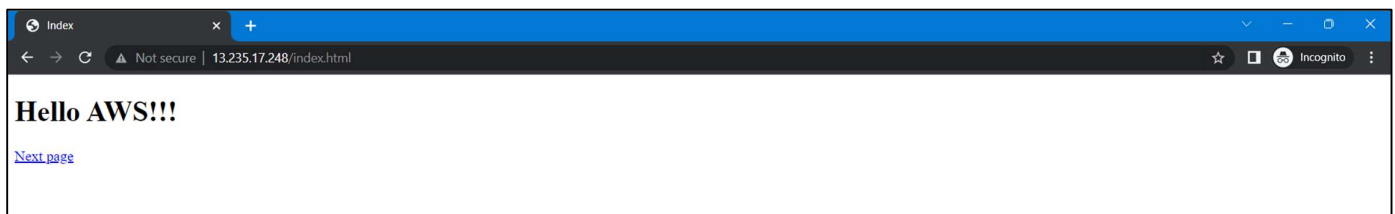
To set up an endpoint, for example when creating a web server

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.

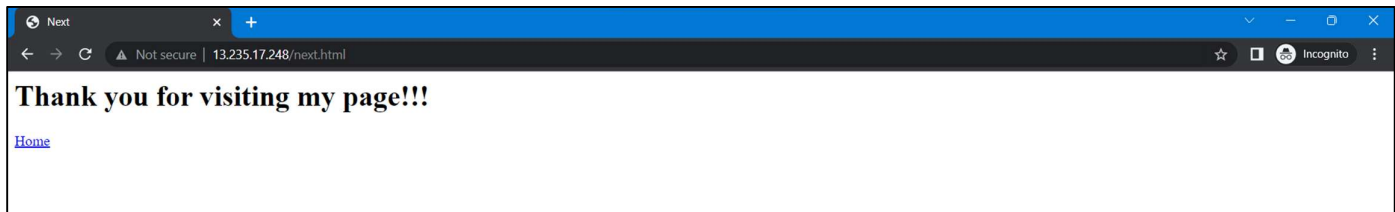
Step 7: Now ready to launch



Step 11: After running above mentioned commands; copy .HTML file local machine to ubuntu



Hosting Index.HTML



Hosting Next.HTML