

Deploying a Website Using Nginx on AWS EC2

This document provides a step-by-step guide to deploying a simple website on an EC2 instance using Nginx and setting up a DNS name for it as 'awesomeweb'. This involves configuring Nginx, deploying a basic HTML template

A. Setting Up AWS EC2 Instance

1. Open AWS Console > EC2 Dashboard > Launch Instance.
2. Select an Amazon Linux 2 AMI and instance type (e.g., t3.micro).(free tire)
3. Configure security group to allow HTTP (80) and SSH (22).
4. Launch and SSH into the instance through windows powershell and using ssh show in screen-shot

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B. Installing Nginx

1. `sudo yum install nginx`
2. `sudo systemctl start nginx` (To start the nginx server)
3. `sudo systemctl status nginx` (To Check the status of the nginx server)

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C. Create a Simple HTML Page

1. Navigate to the Nginx default web directory:
`cd /usr/share/nginx/html`
2. create/added in the html file
`<!DOCTYPE html>`
`<html>`
`<head>`
`<title>Welcome to Awesome Web</title>`
`</head>`
`<body>`
`<h1>Hello, This is Awesome Web!</h1>`
`<p>Your Nginx server is successfully hosting this page!</p>`
`</body>`
`</html>`

D. Configure Nginx to Serve Your Site

1. Edit the default Nginx configuration file to customize your website's configuration:
`sudo view /etc/nginx/nginx.conf`
2. Update the server block with the necessary configurations:

```
server {  
    listen 80;  
    server_name awesomeweb;  
    root /usr/share/nginx/html;  
    index index.html;  
    location / {  
        try_files $uri $uri/ =404;  
    }  
}
```

3. Restart Nginx to apply the changes :

```
sudo systemctl stop nginx (To stop the nginx server)  
sudo systemctl start nginx (To start the nginx server)
```

E. Set Up Local DNS :

1. Testing locally, modify the /etc/hosts file on your local machine to map awesomeweb to the EC2 instance's public IP
`sudo view /etc/hosts` (screen-shot attached)

F. Test Your Website:

Open your browser and navigate to awesomeweb. You should see your deployed website.□□