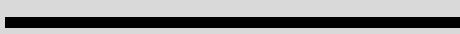
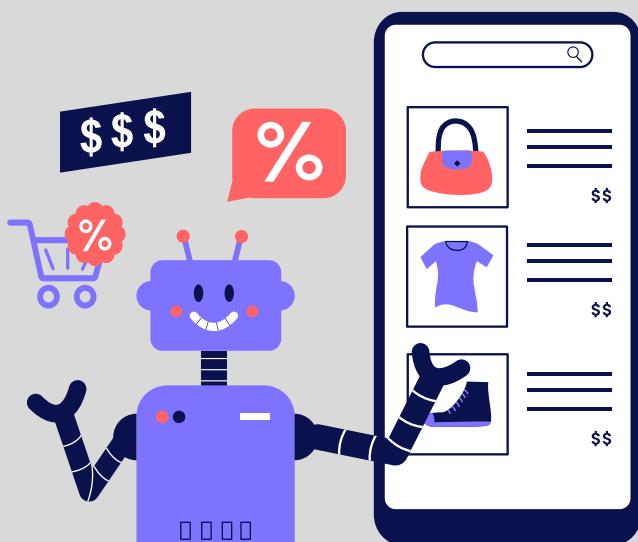


# AWS EC2 Docker Deployment - Hina Atif

---

## Project Overview:

This project demonstrates deploying a sample website on AWS EC2 using Docker. It shows cloud setup, containerization, and live deployment.



# Step 1: Launch EC2 Instance

AWS Console → EC2 → Launch Instance

Choose Ubuntu 24.04 AMI

t2.micro (Free Tier)

Configure security group (allow SSH 22, HTTP 80)

## Step 2: Connect to EC2

`ssh -i your-key.pem ubuntu@<EC2_PUBLIC_IP>`

## Step 3: Install Docker

`sudo apt update`

`sudo apt install docker.io -y`

`sudo systemctl start docker`

`sudo systemctl enable docker`

`sudo usermod -aG docker ubuntu`

# Step 4: Clone Project from GitHub

```
git clone https://github.com/Hina-Atif/AWS-EC2-DOCKER-DEPLOYMENT-HINA-ATIF.git
```

```
cd AWS-EC2-DOCKER-DEPLOYMENT-HINA-ATIF
```

# Step 5: Build Docker Image

```
docker build -t hina-atif-website -f  
docker/Dockerfile .
```

## Note: If you see

COPY failed: forbidden path outside the build context

This happens if Dockerfile references files outside the build context.



Fix: Use the correct path in Dockerfile: COPY sample\_website /usr/share/nginx/html

Build from the project root.

## Step 6: Run Container

```
docker run -d -p 80:80 hina-atif-website  
docker ps
```

## Step 7: Open Website

Open browser → [http://<EC2\\_PUBLIC\\_IP>](http://<EC2_PUBLIC_IP>)



# You should see:

Welcome to My AWS EC2 Docker Deployment

This is Hina Atif

This website is successfully deployed using Docker on an

AWS EC2 instance.

Designed, containerized, and deployed by Hina Atif.

**"Every deploy makes you stronger!"**

# Step 8: Screenshots

Include screenshots here (EC2 dashboard, Docker commands, website preview)

```
@ip-172-31-26-3:~/AWS-EC2-DOCKER-DEPLOYMENT-HINA-ATIF
└─.md docker docs sample_website screenshots
@ip-172-31-26-3:~/AWS-EC2-DOCKER-DEPLOYMENT-HINA-ATIF
```

```
ubuntu@ip-172-31-26-3:~/AWS-EC2-DOCKER-DEPLOYMENT-HINA-ATIF$ docker run -d -p 80:80 hina-atif-website
155f2d29539209cae6a3a931ed263fc8df29901leaf2fe32f5684b2f9acfbee8
ubuntu@ip-172-31-26-3:~/AWS-EC2-DOCKER-DEPLOYMENT-HINA-ATIF$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
 NAMES
155f2d295392 hina-atif-website "/docker-entrypoint...." 10 seconds ago Up 10 seconds 0.0.0.0:80->80/tcp, [::]:80
->80/tcp musing_goldberg
ubuntu@ip-172-31-26-3:~/AWS-EC2-DOCKER-DEPLOYMENT-HINA-ATIF$ |
```

```
buntu@ip-172-31-26-3:~/AWS-EC2-DOCKER-DEPLOYMENT-HINA-ATIF$ nano docker/Dockerfile
buntu@ip-172-31-26-3:~/AWS-EC2-DOCKER-DEPLOYMENT-HINA-ATIF$ docker build -t hina-atif-website -f docker/Dockerfile
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/
```

```
ending build context to Docker daemon 70.66kB
step 1/3 : FROM nginx:latest
--> 5cdef4ac3335
step 2/3 : COPY sample_website /usr/share/nginx/html
--> 34460947a065
step 3/3 : EXPOSE 80
--> Running in 526c4cd34458
--> Removed intermediate container 526c4cd34458
--> c98087d9cc92
Successfully built c98087d9cc92
Successfully tagged hina-atif-website:latest
buntu@ip-172-31-26-3:~/AWS-EC2-DOCKER-DEPLOYMENT-HINA-ATIF$ |
```

## Welcome to My AWS EC2 Docker Deployment

This is Hina Atif

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*"Every deploy makes you stronger."*