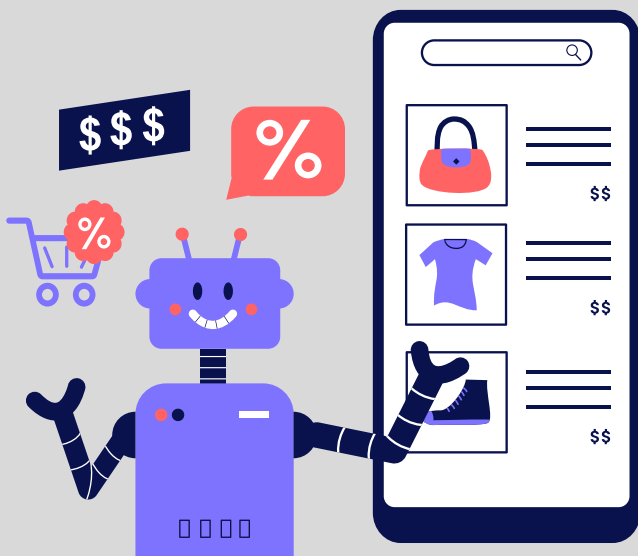


AWS EC2 Docker Deployment - Hina Atif

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>



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)

```
ubuntu@ip-172-31-26-3:~/AWS-EC2-DOCKER-DEPLOYMENT-HINA-ATIF$ cd docker docs sample_website screenshots
ubuntu@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
155f2d29539209cae6a3a931ed263fcd8df29901eaf2fe32f5684b2f9acfbee8
ubuntu@ip-172-31-26-3:~/AWS-EC2-DOCKER-DEPLOYMENT-HINA-ATIF$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS
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$
```

```
ubuntu@ip-172-31-26-3:~/AWS-EC2-DOCKER-DEPLOYMENT-HINA-ATIF$ nano docker/Dockerfile
ubuntu@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/

Sending 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
ubuntu@ip-172-31-26-3:~/AWS-EC2-DOCKER-DEPLOYMENT-HINA-ATIF$
```

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."