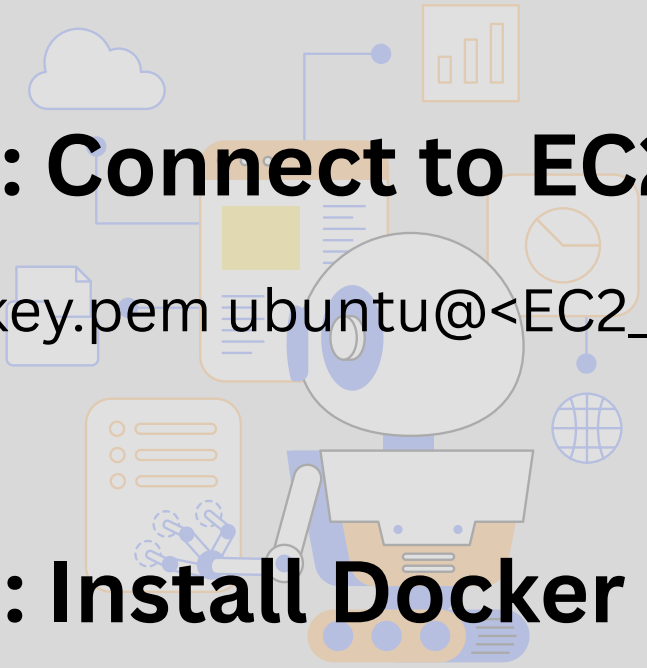
AWS EC2 Docker Deployment - Hina Atif

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

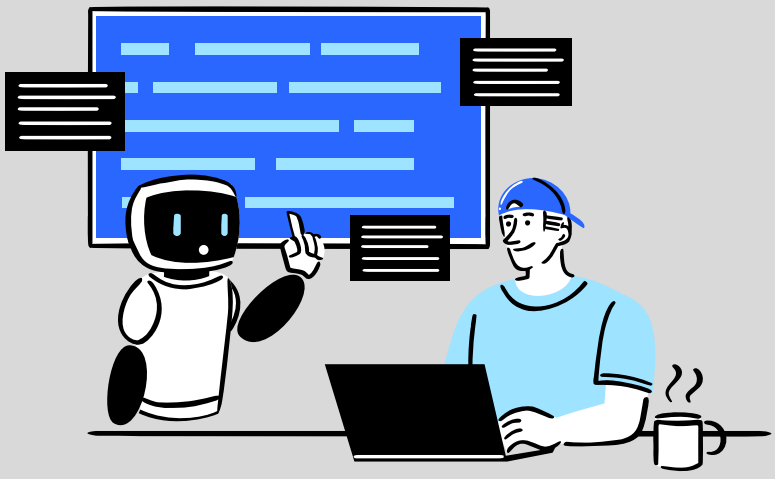
Build from the project root.

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:

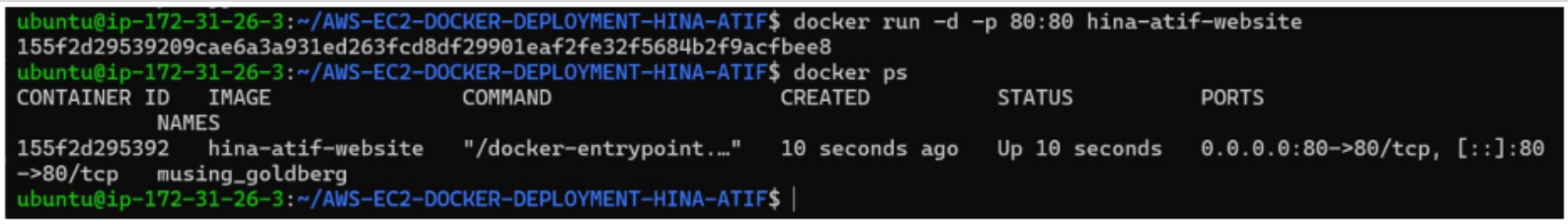
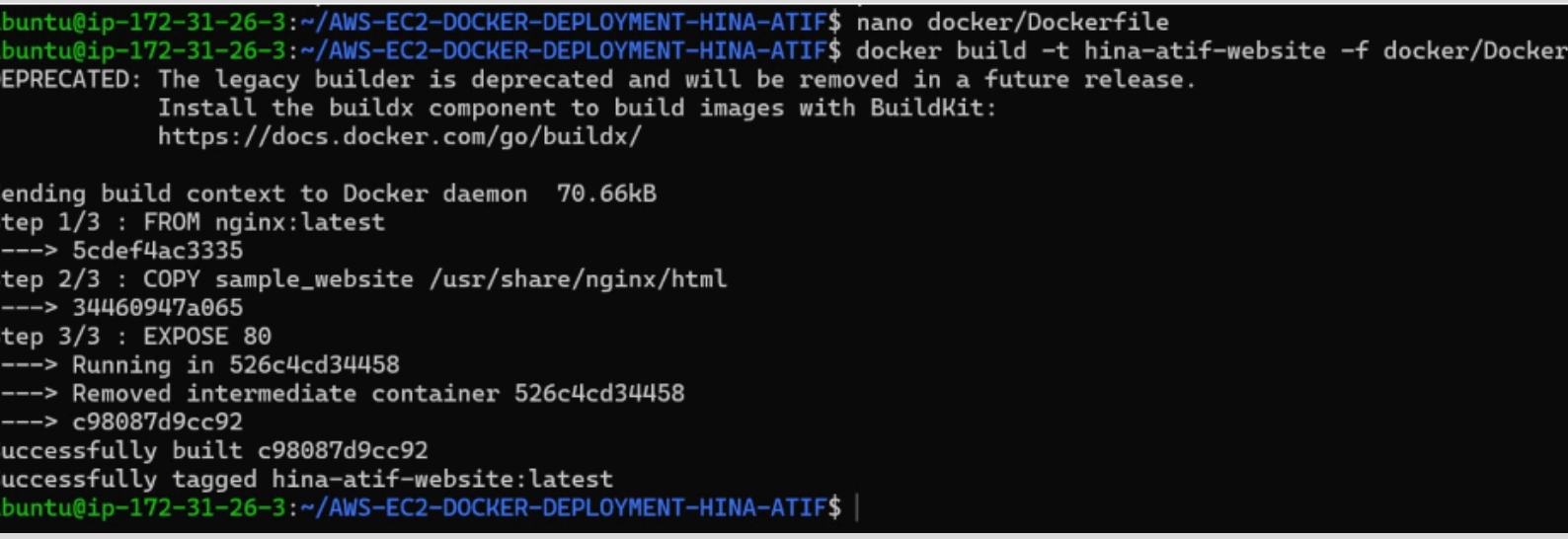
Welcome to My AWS EC2 Docker Deployment

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)