AWS EC2 Task: Deploy a Node.js App

Objective

Launch an EC2 instance, install Node.js, deploy a simple Node.js web app, and make it accessible via browser.

Task Steps

1. Launch EC2 Instance

- AMI: Amazon Linux 2
- Instance Type: t2.micro
- Security Group: Allow ports 22 (SSH) and 3000 (Node.js)
- Key Pair: Create or use existing

2. Connect to EC2 Instance

Use SSH:

ssh -i "your-key.pem" ec2-user@<your-ec2-public-ip>

3. Install Node.js & Git

curl -sL https://rpm.nodesource.com/setup_16.x | sudo bash -

sudo yum install -y nodejs git

4. Clone Sample Node.js App

git clone https://github.com/heroku/node-js-sample.git

cd node-js-sample

5. Install Dependencies & Run App

npm install

node index.js

(Default port: 3000)

6. Modify Security Group

Allow inbound TCP on port 3000 from 0.0.0.0/0

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7. Access App in Browser

Visit: http://<your-ec2-public-ip>:3000

8. Optional: Make Node App Run in Background

sudo npm install -g pm2

pm2 start index.js

pm2 startup

pm2 save

Deliverables

- Screenshot of Node.js app running in browser
- Terminal showing app started
- EC2 instance dashboard

Bonus Challenges

- Deploy your own custom Node.js app
- Connect with MongoDB Atlas or local MongoDB
- Use Nginx as a reverse proxy