

AWS Assignment

Dear Candidate

Greetings from Aproposdrive Technologies!

Thank you for your interest in the AWS & DevOps Intern role at our company. As part of our evaluation process, we would like you to complete the following technical assignment. This will help us assess your problem-solving approach, analytical skills, and technical knowledge relevant to the role.

Imp Instructions:

1. Candidates should attempt as many below questions as possible.
 2. Any assumptions considered should be mentioned.
 3. Being more detailed in analysis, selections or waveform can help is explanation.
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Task Summary

1. Application

- Simple frontend + backend app
- Use one database (MySQL / MongoDB / Influx DB)
- App must connect to the database successfully

2. Docker

- Create Docker file(s)
- Run app using Docker containers
- Expose required ports
- Ensure containers auto-start on reboot

3. AWS EC2 Deployment

- Launch EC2 (cost-optimized: t2.micro / t3.micro)
- Install Docker
- Run containers on EC2

4. Application Access

- Access app via:
 - Elastic IP or
 - EC2 Public IP
 - (Optional) Route 53 domain

5. Load Balancer & Auto Scaling

- Configure Application Load Balancer (ALB)
- Attach Auto Scaling Group (ASG)
- Scale based on CPU utilization

6. Cost Optimization

- Use free-tier eligible instances
- Minimal resources
- Auto Scaling to avoid over-provisioning

7. Troubleshooting (Explain)

- App not accessible
- Container running but port not reachable
- ALB health check failures

Deliverables

- Working setup
OR
- Screenshots + architecture explanation

*****Important Note:***

Assignments generated using **ChatGPT** or any **AI tool** will be **automatically rejected**. We encourage you to complete this assessment using your own technical knowledge and skills.