High-Availability WordPress Deployment with AWS Auto Scaling & Load Balancing

Zeinab Mohamed | [GitHub: ZeynixTech](#) | Repo: OPS345_Elastic_Load_Balancing_Auto_Scaling

Project Snapshot

Demonstrated hands-on expertise in deploying a **high-availability WordPress application** on **AWS Elastic Beanstalk**, leveraging **Auto Scaling** and **Elastic Load Balancing**. The project ensures the application scales automatically to handle variable traffic without performance degradation, with full documentation and blog reflections included.

Key Achievements

- **Auto Scaling Configuration:** Set up minimum 1 and maximum 2 EC2 instances with scaling triggers based on RequestCount metrics.
- **Elastic Load Balancer:** Deployed across two Availability Zones to ensure fault tolerance and high availability.
- **Domain Management:** Configured a CNAME record for the WordPress application (`a2.zmmohamed.mystudentproject.ca`).
- **Documentation & Blogging:** Authored posts explaining Load Balancing, Horizontal & Vertical Scaling, Auto Scaling, and personal reflections on the project.

Skills Demonstrated

- AWS Elastic Beanstalk deployment and management
- EC2 Auto Scaling and scaling trigger configuration
- Load Balancer setup and subnet configuration
- Domain management with CNAME records
- Web application deployment, testing, and troubleshooting
- Technical documentation and blog writing

Technologies & Tools

- **Cloud Platform:** AWS Elastic Beanstalk, EC2
- **Networking:** Elastic Load Balancing, Auto Scaling, DNS
- **Application:** WordPress
- **Documentation:** Screenshots and blog posts

Repository Deliverables

- **Screenshots:** EC2 instances, Auto Scaling configuration, WordPress application with CNAME record
- **Blog Posts:** Two posts covering key concepts and personal reflections
- **Project Summary PDF:** Concise, recruiter-friendly overview