Project Name
"Creation and Management of AWS Infrastructure for High Availability and Secure Web Application"

Project Description
This project involves the migration and management of a high availability and secure web application to AWS infrastructure. Using Nginx web server, it will create a high performance and secure web application by integrating AWS services such as auto-scaling and log management.

Stages:

1. **Creating AWS Account and Basic Infrastructure:**
   - **Creating Virtual Private Cloud (VPC):** VPC configuration including public and private subnets, Route Tables and Internet Gateway will be made.
   - **Creation of Security Groups:** Configure the appropriate security groups for traffic coming to the web server.
2. **Creating EC2 Instances:**
   - ***Create Auto Scaling Groups for high availability:*** Configure Auto Scaling for automatically scaled EC2 instances running in multiple Availability Zones.
   - ***Creating Launch Configuration and Launch Templates:*** The properties of EC2 instances will be defined and instances will be created according to these configurations.
   - ***Creating Elastic Load Balancer (ELB):*** ELB will be configured to provide traffic distribution and high availability.
3. **Installation and Management of Nginx Web Server:**
   - Install Nginx web server on EC2 instances.
   - ***Optimising Nginx configuration:*** Nginx will be configured to run with high performance and security measures will be added.
   - The ports required for the web application will be opened and routing rules will be set.
4. **Database Management:**
   a. Create a relational database with Amazon RDS: Create a database suitable for the web application.
   b. Create an RDS database backup and restore strategy.
5. **Logging and Monitoring Management:**
   a. Configure logging with CloudWatch Logs: Send Nginx access and error logs to CloudWatch Logs.
   b. Create CloudWatch Alarms: Set CloudWatch alarms to receive push notifications, for example, for high CPU usage or network traffic.
6. **Security and Access Controls:**
   a. Create AWS Identity and Access Management (IAM) roles and policies: Define IAM roles and policies required for security.
   b. Use AWS Inspector to scan for vulnerabilities: Continuously scan your application and infrastructure for vulnerabilities.
7. **Automation and Scaling:**
   a. Automate with AWS Lambda: For example, create AWS Lambda functions for backup operations, security fixes, or log cleanup operations.
   b. Create Auto Scaling Policies: For example, create Auto Scaling Policies to automatically scale EC2 instances when traffic increases.

8. **Documentation and Reporting:**
    a. Document all configurations and steps throughout your project.
    b. Regularly monitor metrics collected by AWS CloudWatch and other AWS services and generate performance reports.