#Consider a monolithic java application stack.Apache Web Server, Apache Tomcat application server with Active MQ and Oracle and MongoDB backend.Propose a solution to migrate this application stack to AWS. Mention all the AWS services you woulduse and how you would maintain HA and Load Balancing (consider app to be stateless).

Mention rationale for each design decision.

Docker Can be used depending upon the Application and Client need.

Services

AWS Services

Apache Web Server --------> EC2 Instance

Apache Tomcat ------------> EC2 Instance with Autoscaling Enabled

Active MQ ----------------> AWS SQS or Active MQ in EC2

Load Balacing ------------> ELB wihtout sticky session enabled (Round robin)

Oracle -------------------

> RDS (Oracle) or Oracle in EC2 in OS level access needed (Master + slave replication)

Mongo DB -----------------> DyanmoDb or Mongo Db as a service in EC2 (Replica set or sharded cluster)

Architecture Will be Like

Auto Scaling Enabled

DNS - - - - -> ELB - - - - - -> EC2 (Apache Web Server) - - - - - - -> AWS SQS (Active MQ) - - - - - - - -> EC2 (Apache Tomcat App Server) - - - - - - -> DyanmoDb (MongoDB)

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RDS - Oracle (Multi AZ)