Moodle high concurrency architecture in AWS involves using multiple cloud servers with AWS auto scaling feature to handle the load of high user traffic.

Benefits of using High Concurrency Architecture (Horizontal Scaling)

- High Availability of Moodle Website
- Elasticity of scaling the servers automatically when traffic increases
- Optimized database services
- Caching systems
- Cost effective

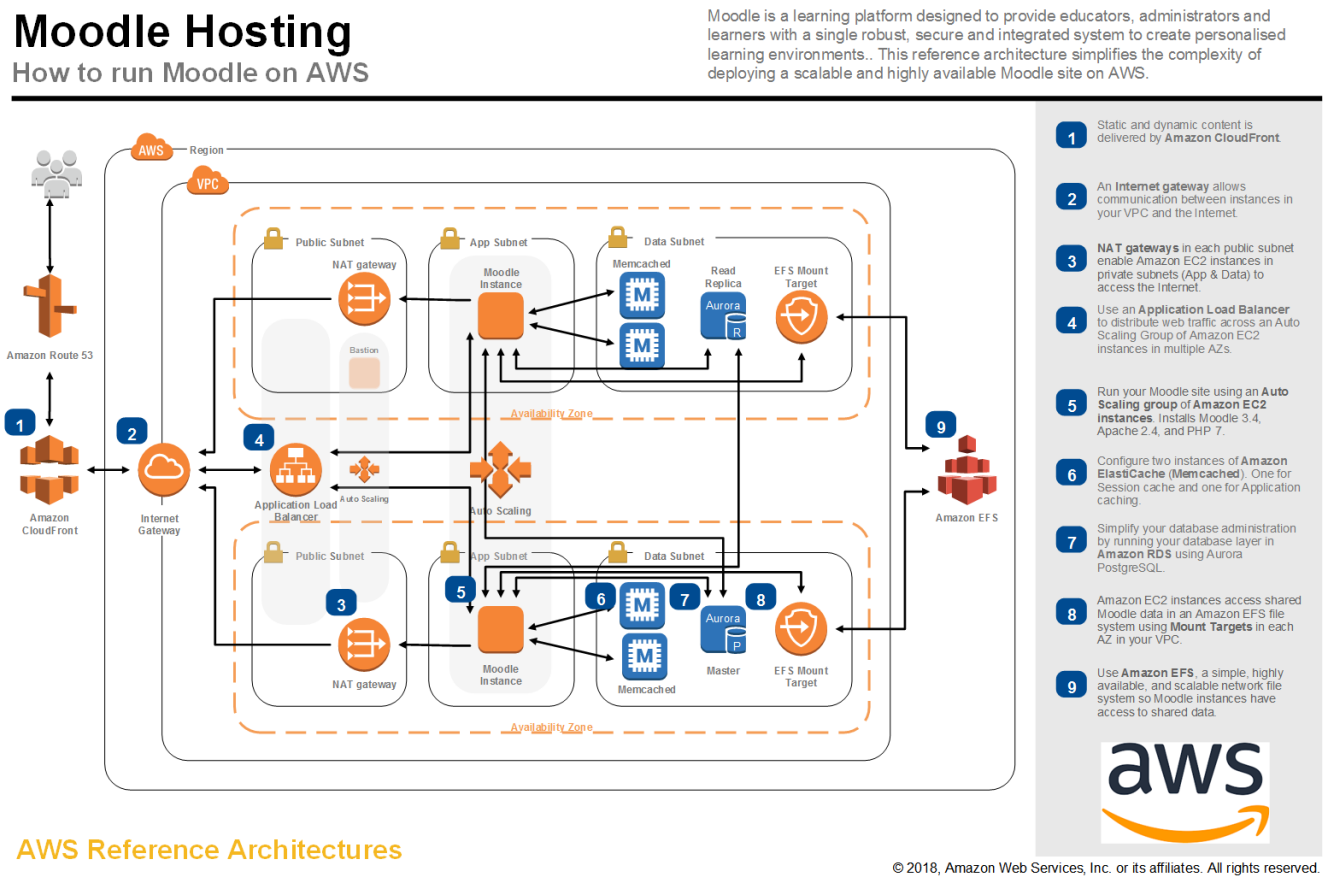
Services to be used on AWS platform for the deployment :

- Amazon Virtual Private Cloud (Amazon VPC),
- Amazon Elastic Compute Cloud (Amazon EC2),
- Auto Scaling, Elastic Load Balancing (Application Load Balancer),
- Amazon Relational Database Service (Amazon RDS),
- Amazon ElastiCache,

- Amazon Elastic File System (Amazon EFS),
- Amazon CloudFront,
- Amazon Route 53,
- Amazon Certificate Manager (Amazon ACM)
- AWS CloudFormation.

The above services will run 24/7 on your AWS platform.

Architecture Diagram :



Download full image here ->
https://raw.githubusercontent.com/anirbandutta9/moodle_high_available_aws/master/aws-refarch-moodle-architecture.png

Requirements for deploying moodle on AWS using horizontal scaling :

1) AWS account console access (AWS account must have billing activated)
2) Domain/Subdomain name to be mapped with moodle installation
3) Domain DNS access to add DNS records
4) Moodle version to be installed (will install the latest version by default if not specified)

THANKS & REGARDS

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