CSE563: Internals of Application Servers

Spring Semester 2021

Written Assignment 1: Application Development Platform

AWS have many products that help in maintaining complete life cycle of software. Some major things that are required by a developer in maintaining any application consists of services like Deployer, Scheduler, Host, Database, Load Balancer / Reverse Proxy etc.

- Explore and understand properties/uses of below services of AWS and draft an architecture which explains these services (input/output/uses) and connections with others.(eg: EC2 and S3, EC2 is a machine helps in running any program where S3 can help to store object data, so S3 can send/store data with EC2).

  Services:

  1. **Compute:** Amazon EC2, AWS Lambda
  2. **Database:** Amazon DynamoDB, Amazon S3
  3. **Container:** Amazon Elastic Containers
  4. **Networks:** Amazon VPC
  5. **Integration:** Amain Route 53
  6. **Notification:** Amazon Connect
  7. **Security:** AWS IAM

  Submit single diagram (if possible) either hand drawn or use draw.io.

- Also find out and list similar services available in Azure & GCP corresponding to each of the above services.