AWS Cloud Bootcamp Week 0 Notes

Notes

* Ephemeral-first micro-blogging platform
* Fractional CTO
* Partly developed app – keep or rebuild?
* How to monetize
* Frontend = JavaScript using React
* Back application = Python using Flask
* API only
* Be careful of budget.
* User content (upload)
* Users - College students, Younger students, professionals
  + User validation?
  + Age limit?
* AWS
  + What Services? Containers?
  + Set up budget monitoring.
* User engagement
* Technical report due for investors!
  + Architecture
  + Budget
  + Ongoing cost estimate

Architecture Week #0

**What is Good Architecture?**

**Meets Requirements:**

Things the project **MUST** achieve.

Can be technical or business oriented.

**Requirements must be:**

* Verifiable
* Monitorable
* Traceable
* **Feasible**

Examples:

* Meets ISO standards.
* 99.9% uptime
* User can do specific task.

**Risks, Assumptions, and Constraints**

Risks can prevent the project from being successful.

* Single Point of Failure (SPoFs)
* User Commitment
* Late Delivery

Assumptions are factors held as true for the planning and implementation phases.

* Sufficient network bandwidth
* Stakeholders will be available to make decisions.
* Budget is approved.

Constraints are policy or technical limitations for the project.

* Time
* Budget
* Vendor Selection

**For this project:**

1. Building On AWS
2. Free Tier ($0)
3. 14 Weeks (+?)

From gathering the RRACs, you then create your designs:

Conceptual Design:

* Created by business stakeholders and architects.
* Organizes and defines concepts and rules.
* Napkin Design

Logical Design:

* Defines how the system should be implemented.
* Environment without actual names or sizes
* Example: undeployed CFT

Physical Design:

* Representative of the actual thing that was built.
* IP Addresses, EC2 Instances

## It’s Important to Develop a Common Dictionary

* Ask Dumb Questions
* Play be the packet
* Document everything

## What is TOGAF?

“TOGAF is an architecture framework that provides the methods and tools for assisting in the acceptance, production, use, and maintenance of an enterpreise architecture. It is based on an iterative process model supported by best practices and a re-usable set of existing architecture assets.”

* The most popular framework for EA
* Common dictionary of words to convey desired outcomes.
* Meta-model for the creation of the underlying projects
* Maps closes to the Well-Architectured Tool

## What is it?

### Uses the AWS Well Architected Framework to review your workloads against current AWS best practices.

* Workload = collection of resources and code that make up a cloud application
* Asks the right questions (from a TOGAF perspective) to highlight blindspots
* Naturally falls into the R/R/A/C buckets.
* Powerful Tool in the architect’s toolbelt
* “Everyone” contributes.

### The Six Pillars:

1. Operational Excellence
2. Security
3. Reliability
4. Performance Efficiency
5. Cost Optimization
6. Sustainability

### LucidChart Diagram For Architecture and Billing (Logical)

A computer screen shot of a computer

Description automatically generated