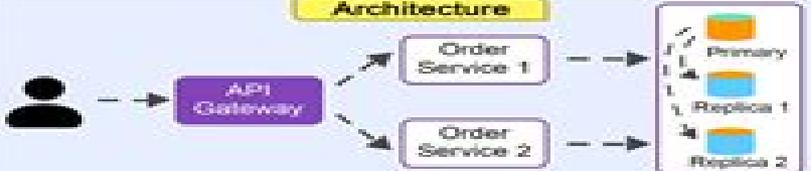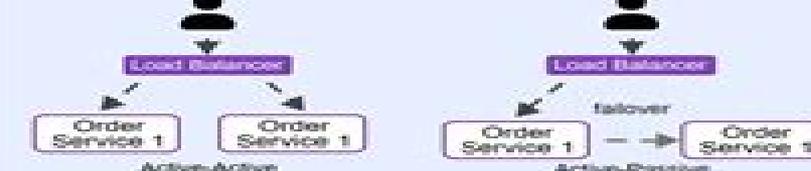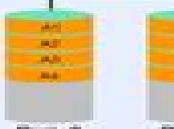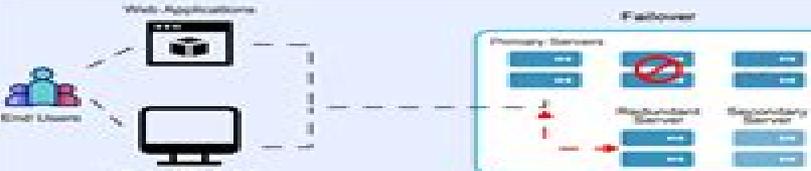# Cheat Sheet for Fault-Tolerant Systems

ByteByteGo

- Fault tolerance is the ability of a system to continue operating properly in the event of the failure of some of its components.
- It ensures that a system can tolerate faults(errors,defects,or unexpected issues) and continue to function without significant disruption.

Replication
creating multiple copies of data or services

Architecture

Use Case

Apache Cassandra

Redundancy
having additional components or systems that can take over in case of a failure

Active-Active

Active-Passive

failover

RAID 0 (Stripping)

RAID 1 (Mirroring)

Disk 0 — Disk 1 — Disk 0 — Disk 1

Load Balancing
distributes incoming network traffic across multiple servers

Alice — Bob

Load Balancer

Service A
Service B
Service C

Failover
automatically switch to a standby system when the primary one fails

Web Applications

End Users

System Monitoring

Failover

Primary Servers

Redundant Server — Secondary Server

AWS Region

Graceful Degradation
ensures that a system continues to operate at reduced functionality

Configuration Center

Order Service 1 — Order Service 2 — Order Service 3

Disables non-essential features in web applications

Monitoring & Alerting
continuously monitor the system's health and performance

Service Discovery

Pull Metrics

Application Client Library

Exporter

3rd Party Application

Prometheus Server

Alertmanager

OpsGenie

PagerDuty

Grafana

Data Visualization

Fault Tolerant Distributed Systems Distributed

Patanjali Bhatt

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