

Apache Cassandra

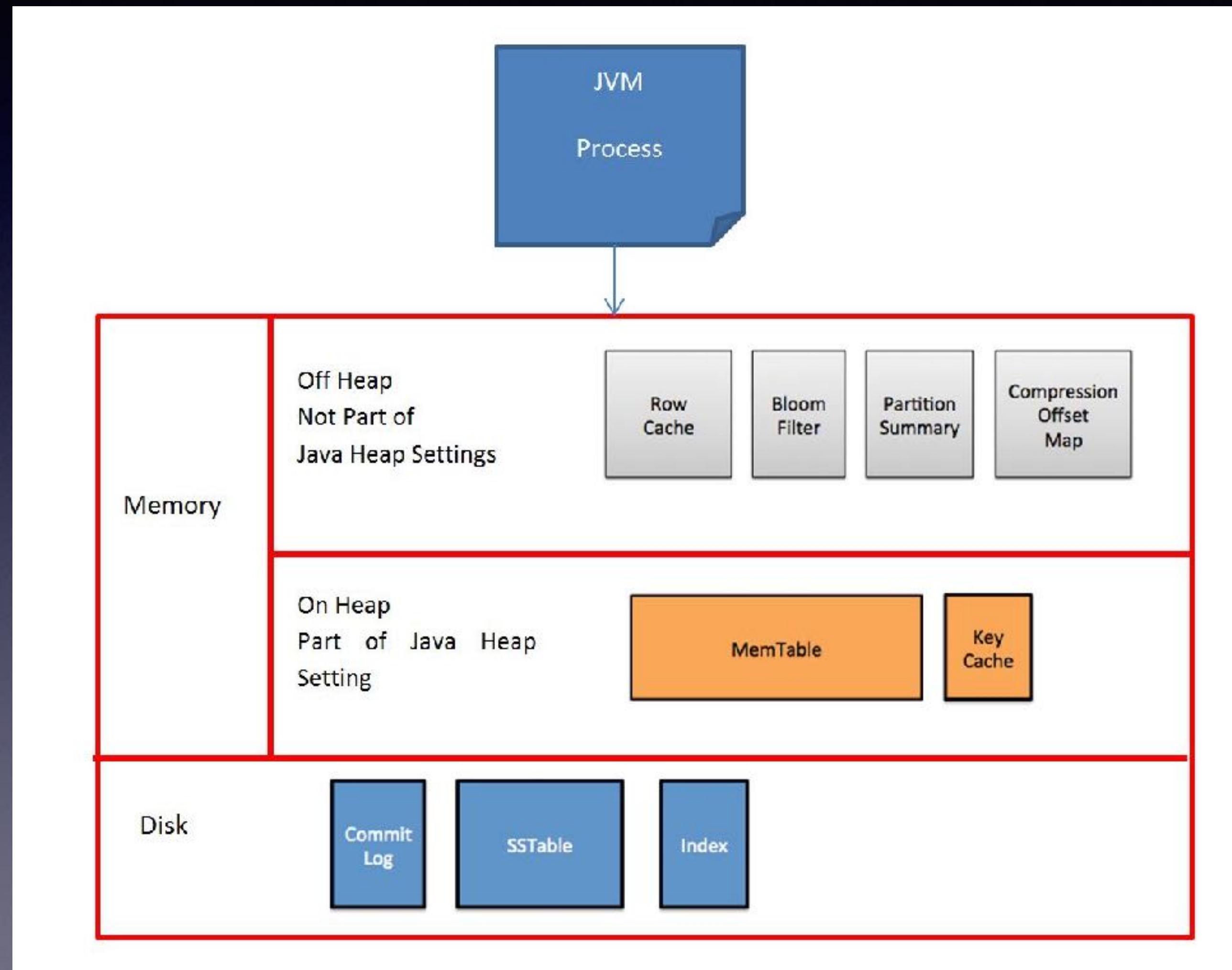
Topics

- Introduction
- Data Modeling
- Querying
- Administration
- Development
- DevOps

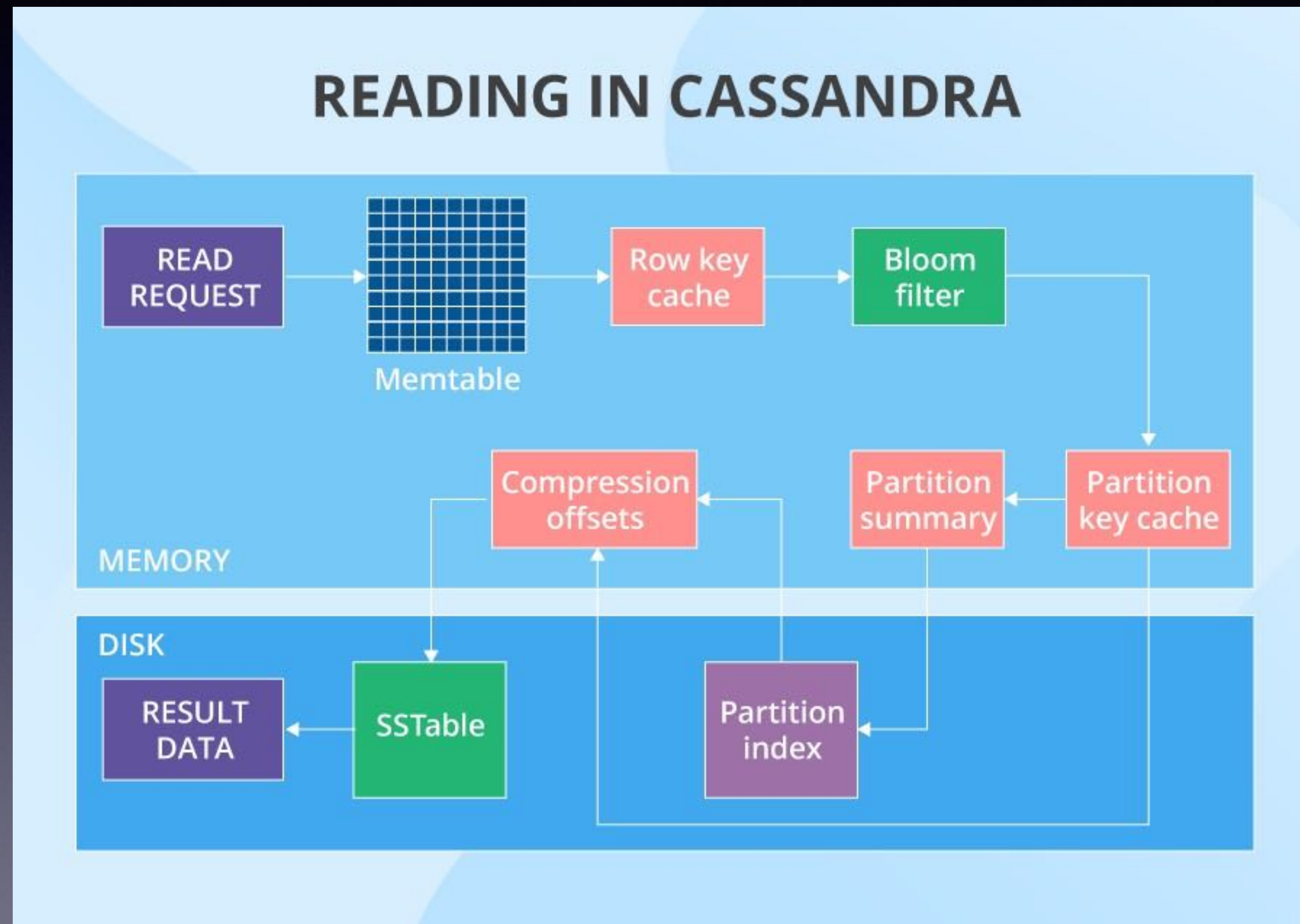
Introduction

- Overview
- Architecture
- Compare with Other Database

Architecture

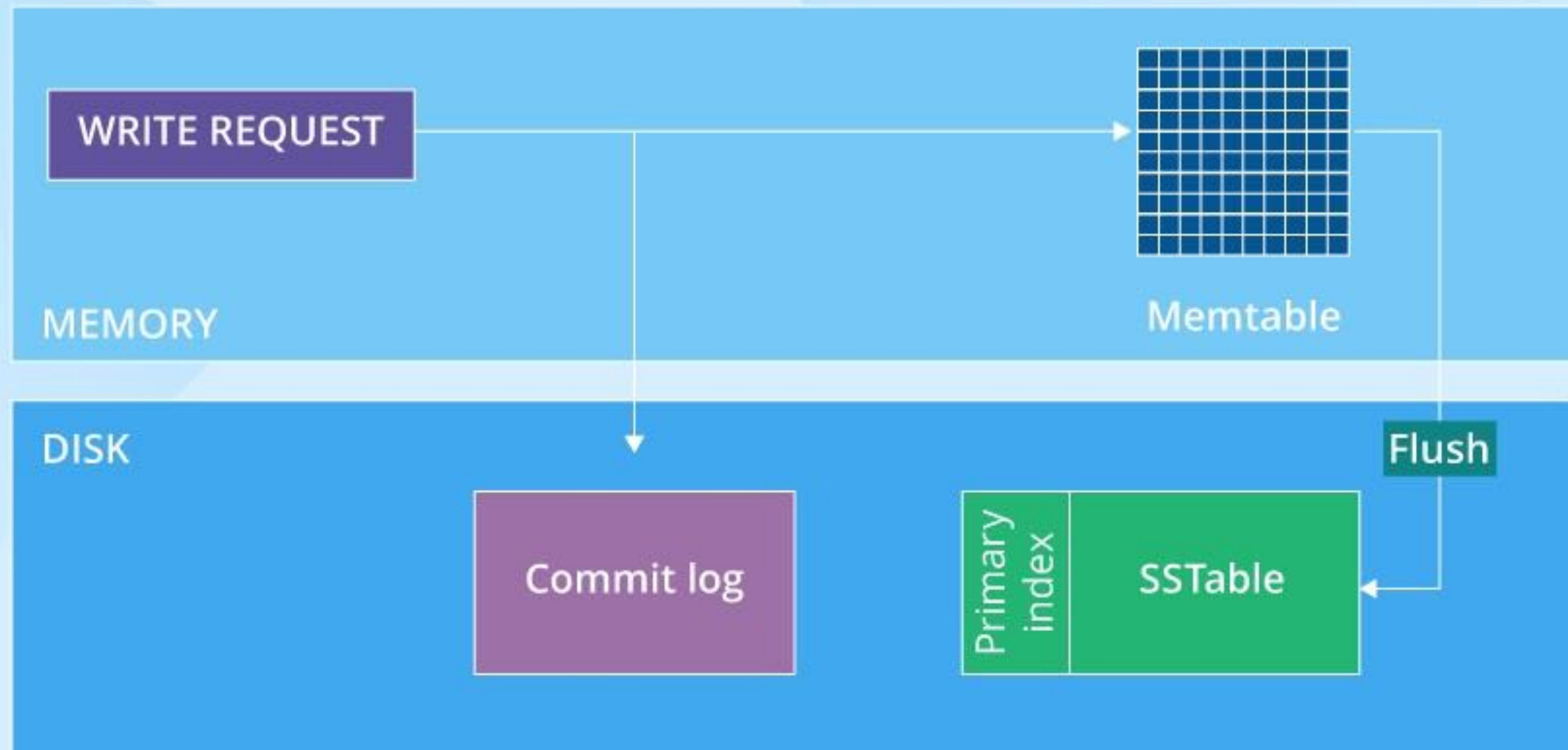


Read Operation



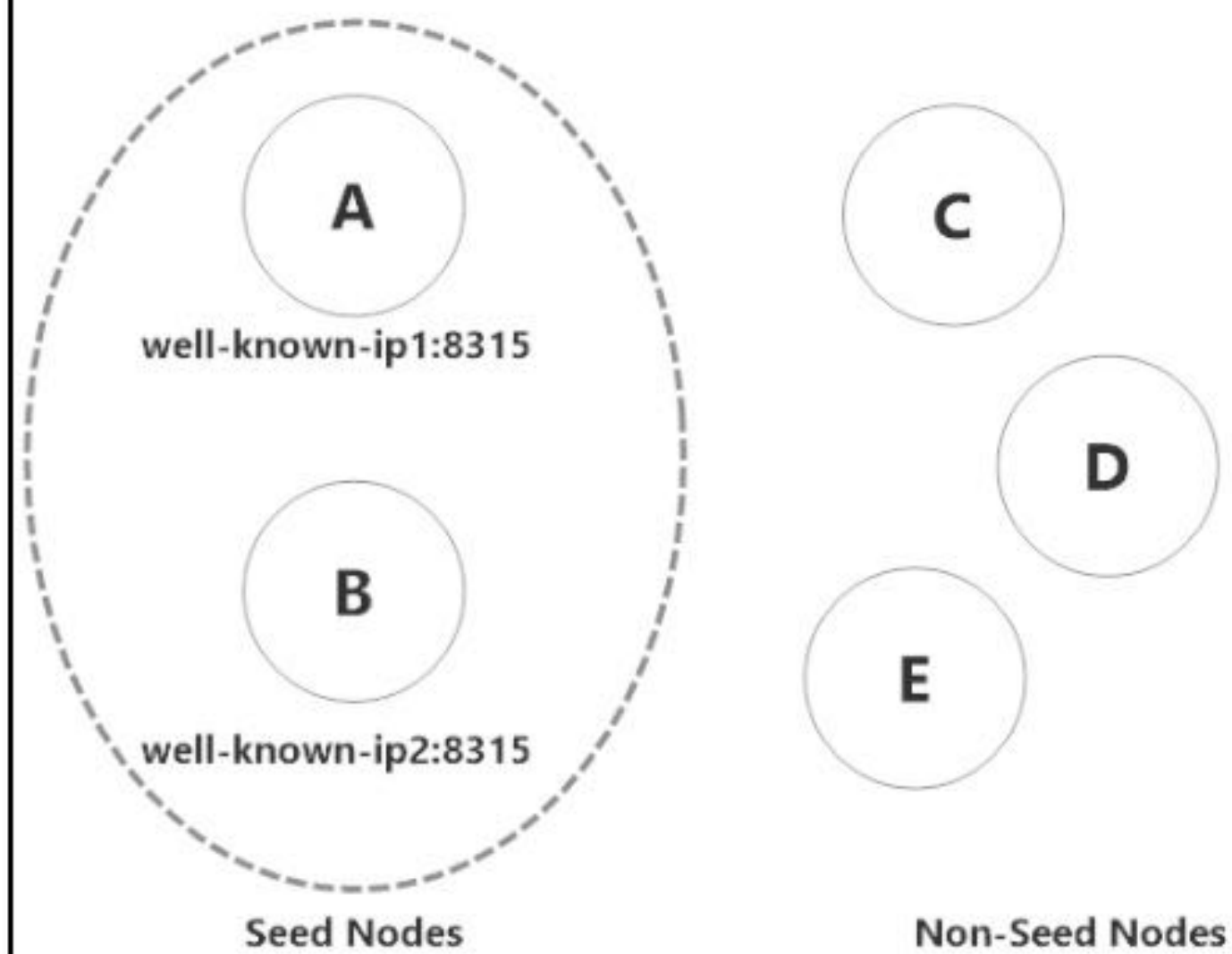
Write Operation

WRITING IN CASSANDRA

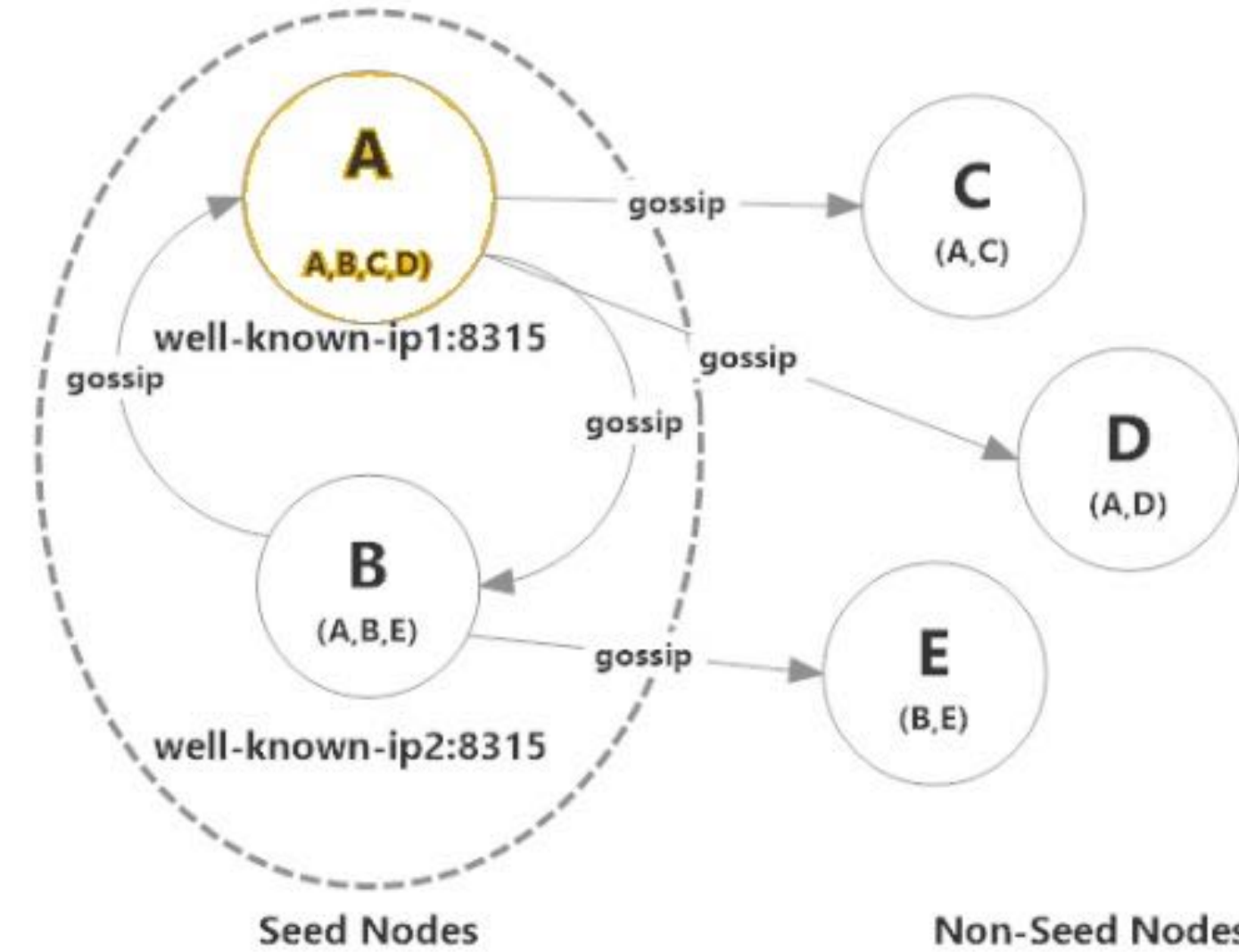


High Availability

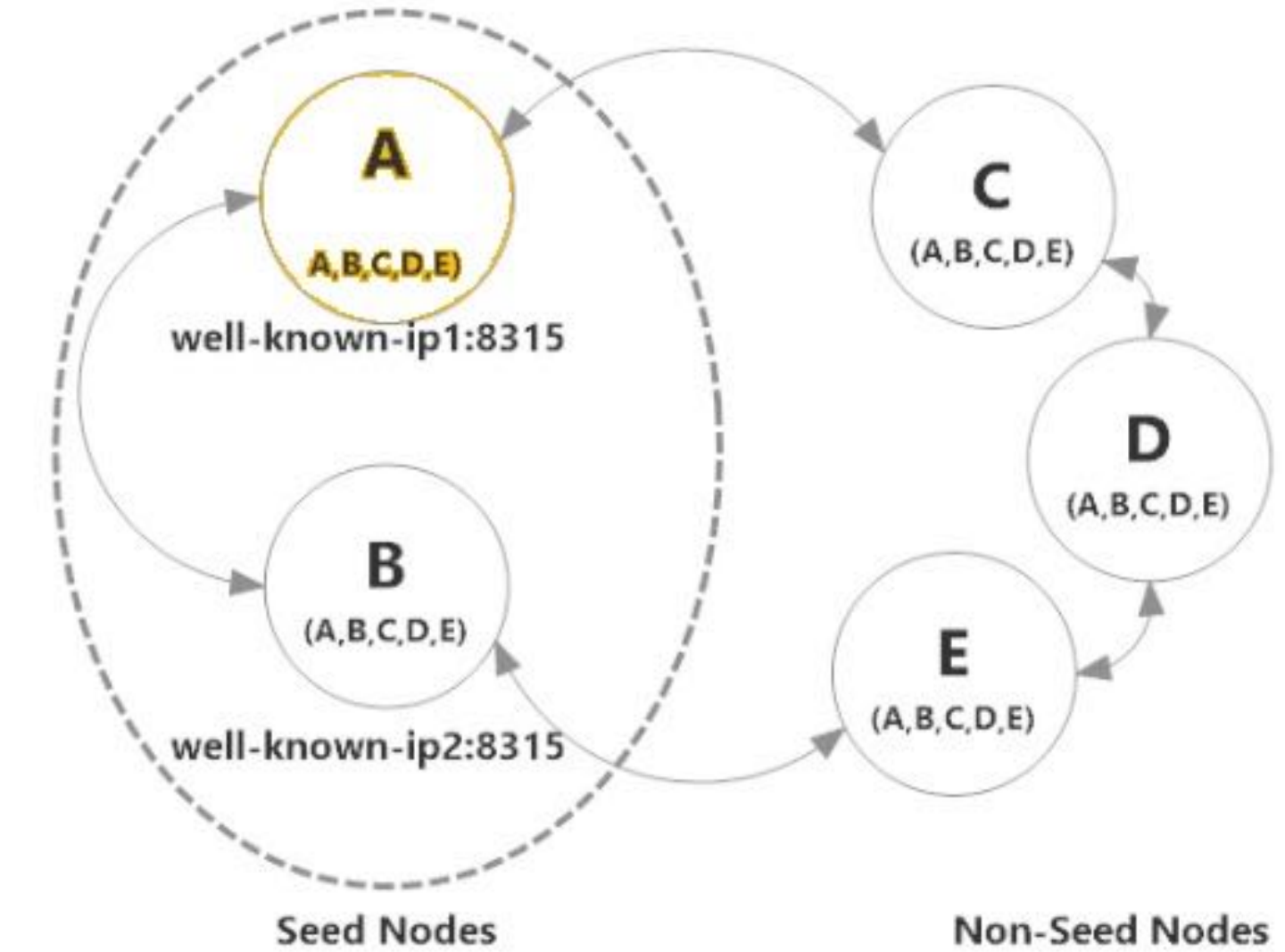
Initial Cluster State
(Deploying 5 Nodes)



State 2 - Marking Nodes Up
(Gossip Begins)



State 3 - Gossip Spreads, Ring is Formed
(Communication Established between Non-Seeds)



Data Modeling

- Data Model
- Denormalization Strategies

Querying

- Cassandra Query language - CQL
- Query Optimization
- Advanced CQL Features

Administration

- Cluster Setup and Configuration
- Monitoring and Troubleshooting
- Backup and Recovery

Development

- Client Drivers
- Data Consistency and Durability
- Performance Optimization

DevOps

- Integrating with DevOps Tools