



Database Architecture

Database Design

Department of Computer Engineering

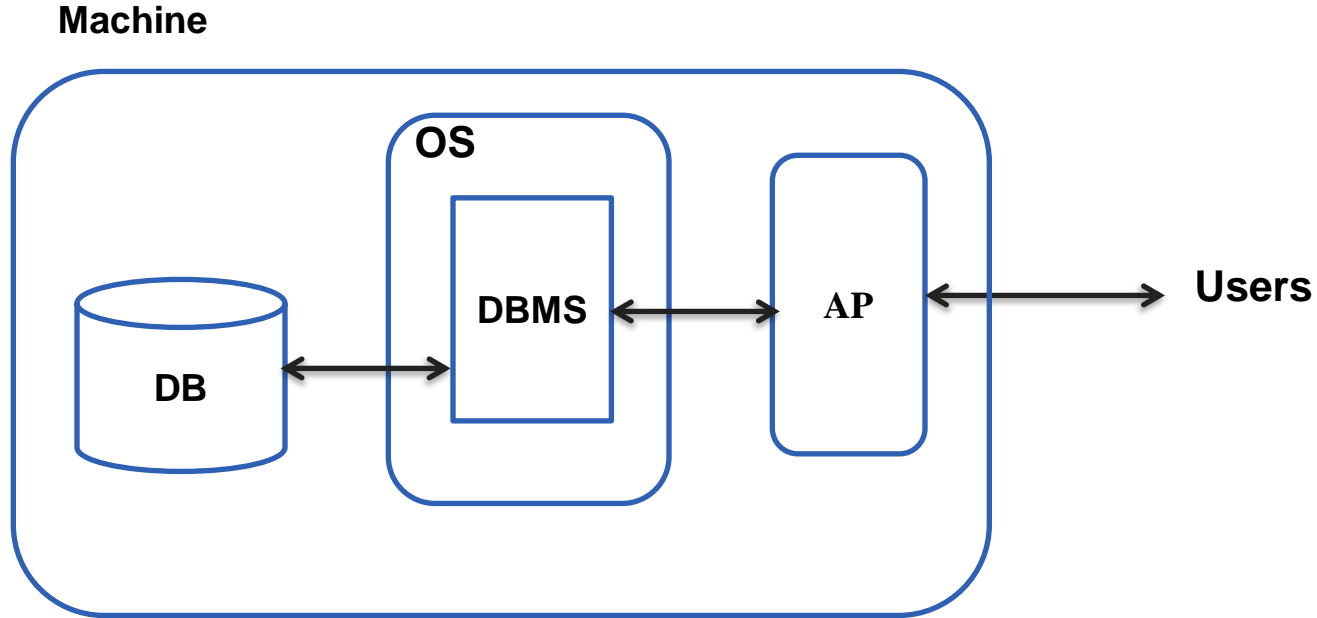
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- ❑ Components and their relations
- ❑ Types:
 - Centralized architecture

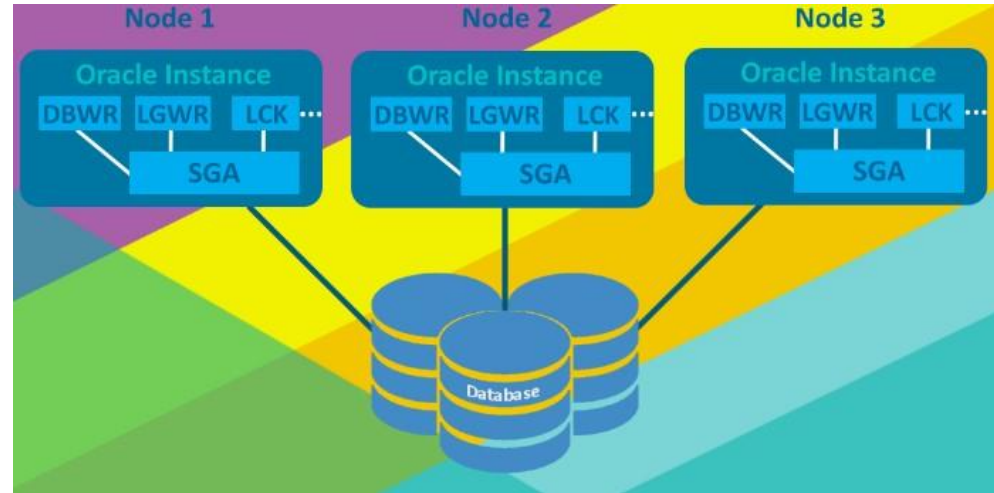
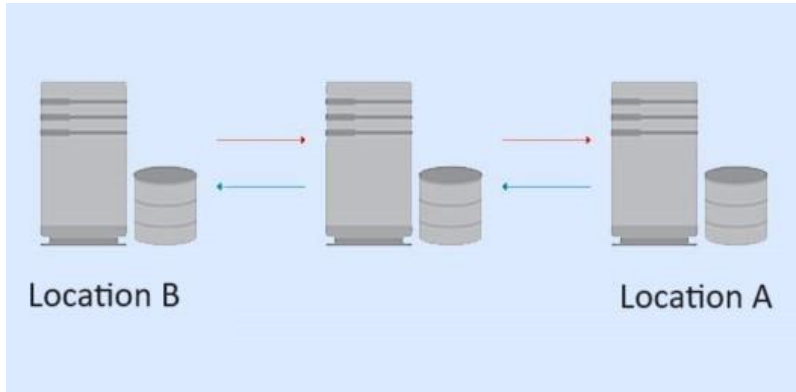
Centralized Architecture



Database Architecture



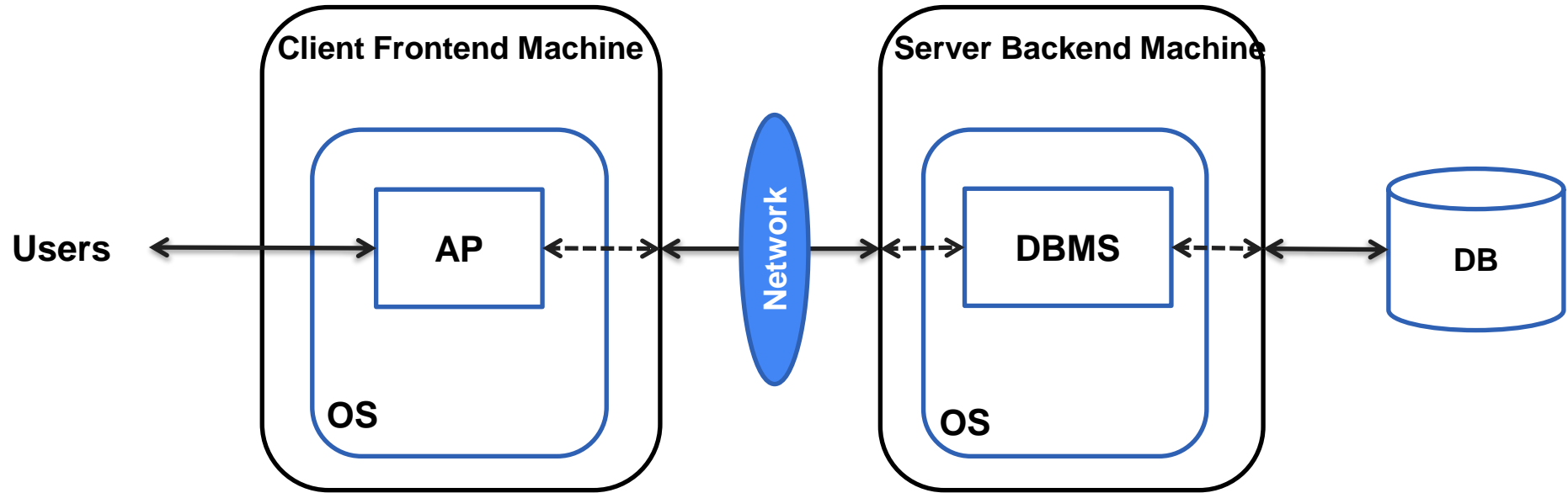
- ❑ Components and their relations
- ❑ Types:
 - Centralized architecture
 - Decentralized architecture
 - Distributed
 - Architecture with parallel processing
 - Client-server



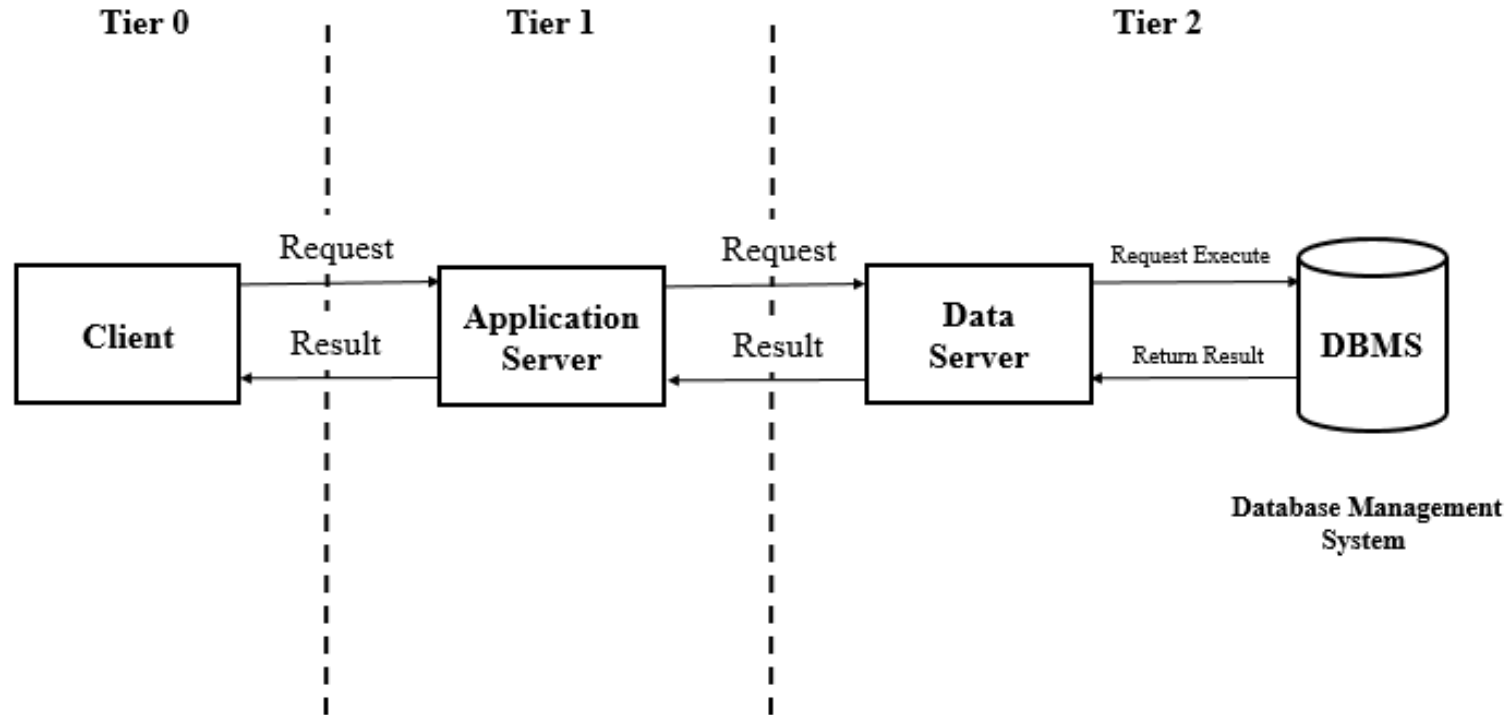


- ❑ Single Server – Single Client
- ❑ Multi Server – Single Client
- ❑ Single Server – Multi Client
- ❑ Multi Server – Multi Client

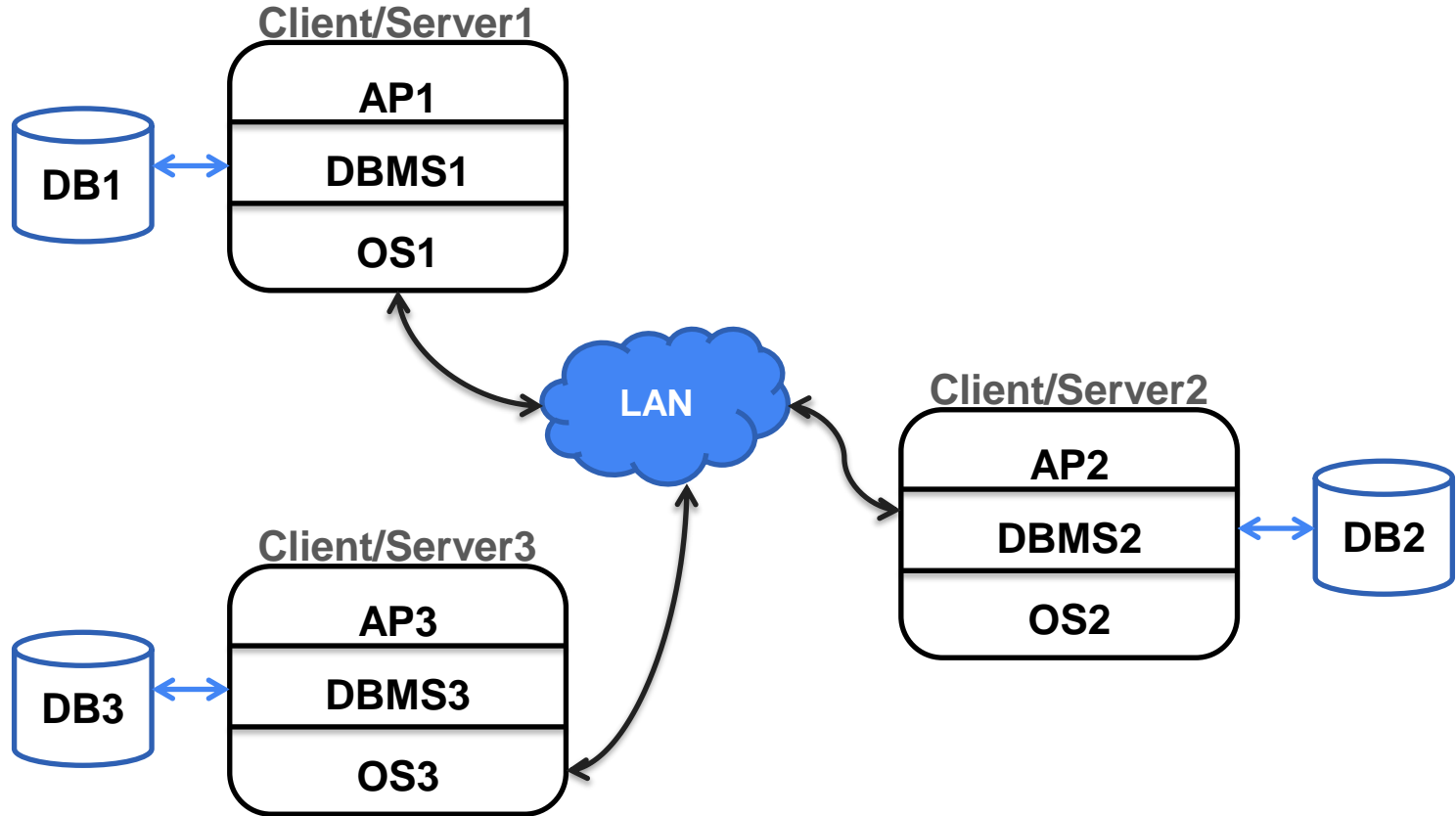
2-tier Client-server Architecture



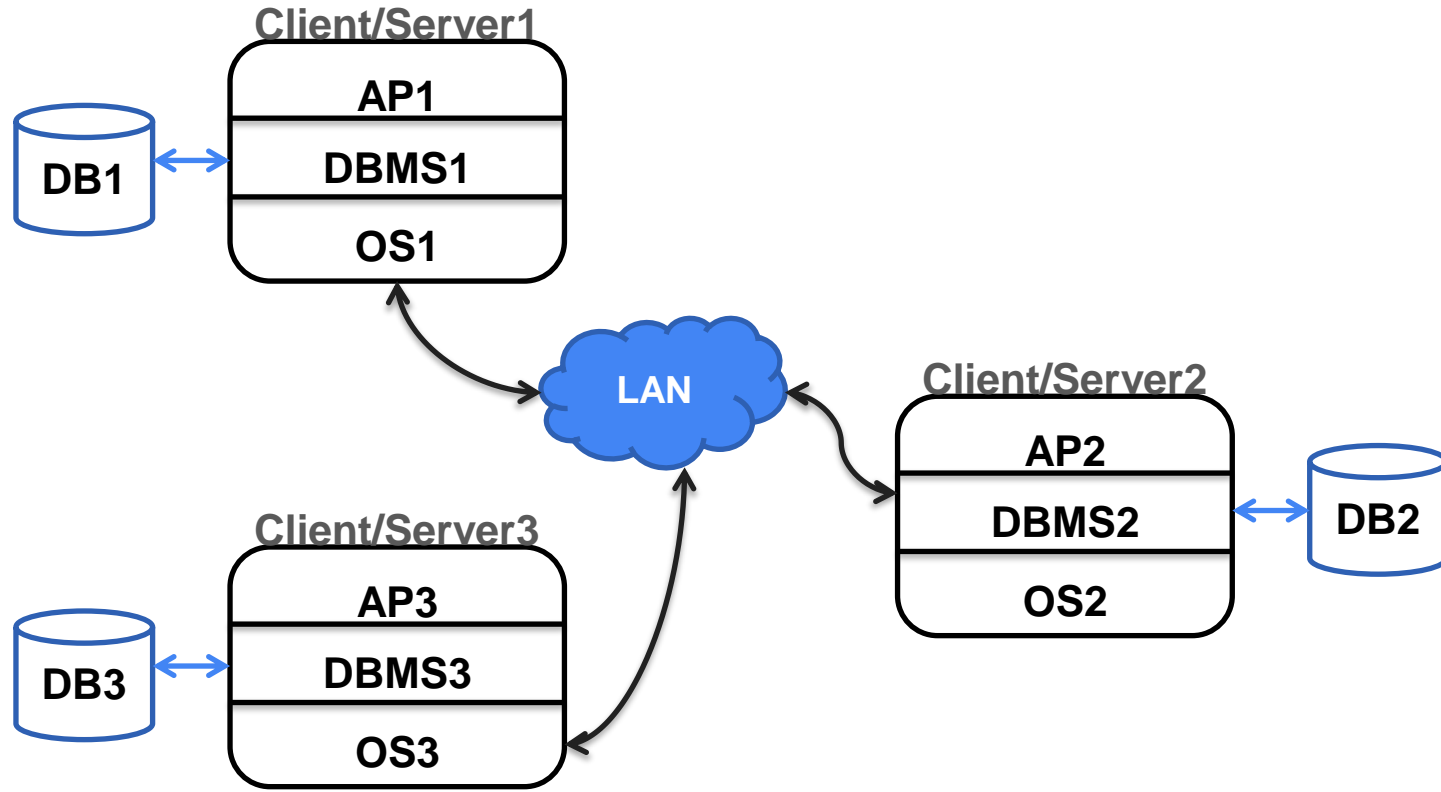
3-tier Client-server Architecture



Multi Server – Multi Client



Distributed Architecture



Three-Level of Abstraction in a Database System

