Enterprise System Architecture
Introduction

The Complexity

“In case you haven’t realized it, building computer systems is hard”
Definition of Architecture

“There are two common elements: One is the highest-level breakdown of a system into its parts; the other, decisions that are hard to change” - Martin Fowler

Enterprise Applications

What is an enterprise application?

- No standard definition
- ERP, CRM, and all other variants
- Information management is the key
Application Lifecycle

Requirements Analysis
- Business Analysis
- Technical Requirements
- Logical Design

Deployment
- Deployment Design
- Implementation

Operations
- System Maintenance

N-tier Architecture

Logical Tiers
- Client
- Presentation
- Business
- Data
Quality Of Service

- Performance
- Availability
- Security
- Scalability
- Serviceability

Performance Indicators

- Response Time
- Responsiveness
- Latency
- Throughput
- Load
- Load Sensitivity
- Efficiency