Enterprise System Architecture

Business Tier

- Data Tier Representation
- Resource Management
- State Management
- Messaging
- Logging
- Caching
- And tons of middleware....
Data Tier Representation

- Server side component model
- “Relational” Objects
- Data access and manipulation
- Integration point between data sources

Resource Management

- Database connections
- Statements
- Files
- Memory
State Management

- Stateless vs. Stateful
- Distributed session management
- State affinity
- Load Balancing and Clustering

Messaging

- Synchronous and Asynchronous
- Web Services
- Workflow
- Asynchronous integration point
Logging

- Should not affect the performance
- Aspect Oriented Programming
- Autonomous transactions

Caching

- Caching Objects
- Caching pages
- Distributed caching
- Cache Invalidation