

IS 335: Information Technology in Business
Reading Preparation Assignment
Chapter 16
Enterprise Architecture Textbook

Read Chapter 16, "Enterprise Technology" of *Design of Enterprise Systems: Theory Architecture, and Methods*, pp. 379 - 401

Read the below questions and be prepared for class discussion based on those questions.

1. Describe some of the benefits of achieving enterprise integration.
2. Think of an enterprise that you are familiar with (e.g., university, business you work for, social organization, ...). What are some of the technical challenges to integration and explain how they manifest themselves in that enterprise.
3. Think of an enterprise that you are familiar with (e.g., university, business you work for, social organization, ...). What are some of the management challenges to integration and explain how they manifest themselves in that enterprise.
4. Explain the reasons underlying the shift from centralized architectures to distributed architectures.
5. Contrast synchronous and asynchronous communication.
6. Explain one reason why architectures are designed in layers.
7. Describe a benefit promised by service-oriented architecture.
8. Define a protocol and provide an example of a protocol.
9. Contrast OLTP and OLAP.
10. Explain how client-server computing works.
11. Define API and explain how it works.
12. Explain why data integration is a popular approach to achieve enterprise integration.
13. Explain how message-oriented middleware works.
14. Contrast remote procedure call from message-oriented middleware.
15. Describe the different strategies of data integration and application integration.
16. Describe how Web services work.