



# Introduction to SOA (I)

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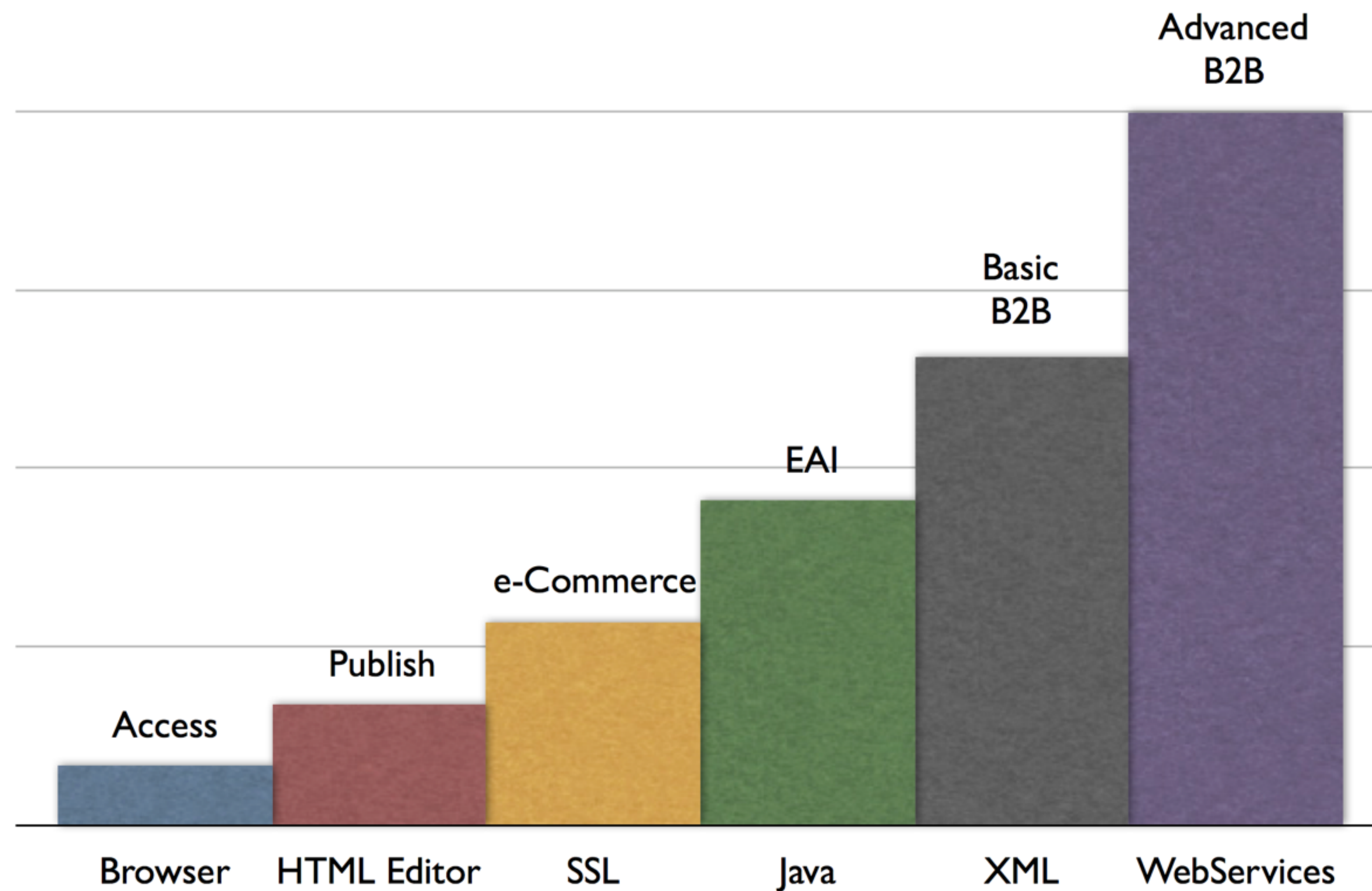
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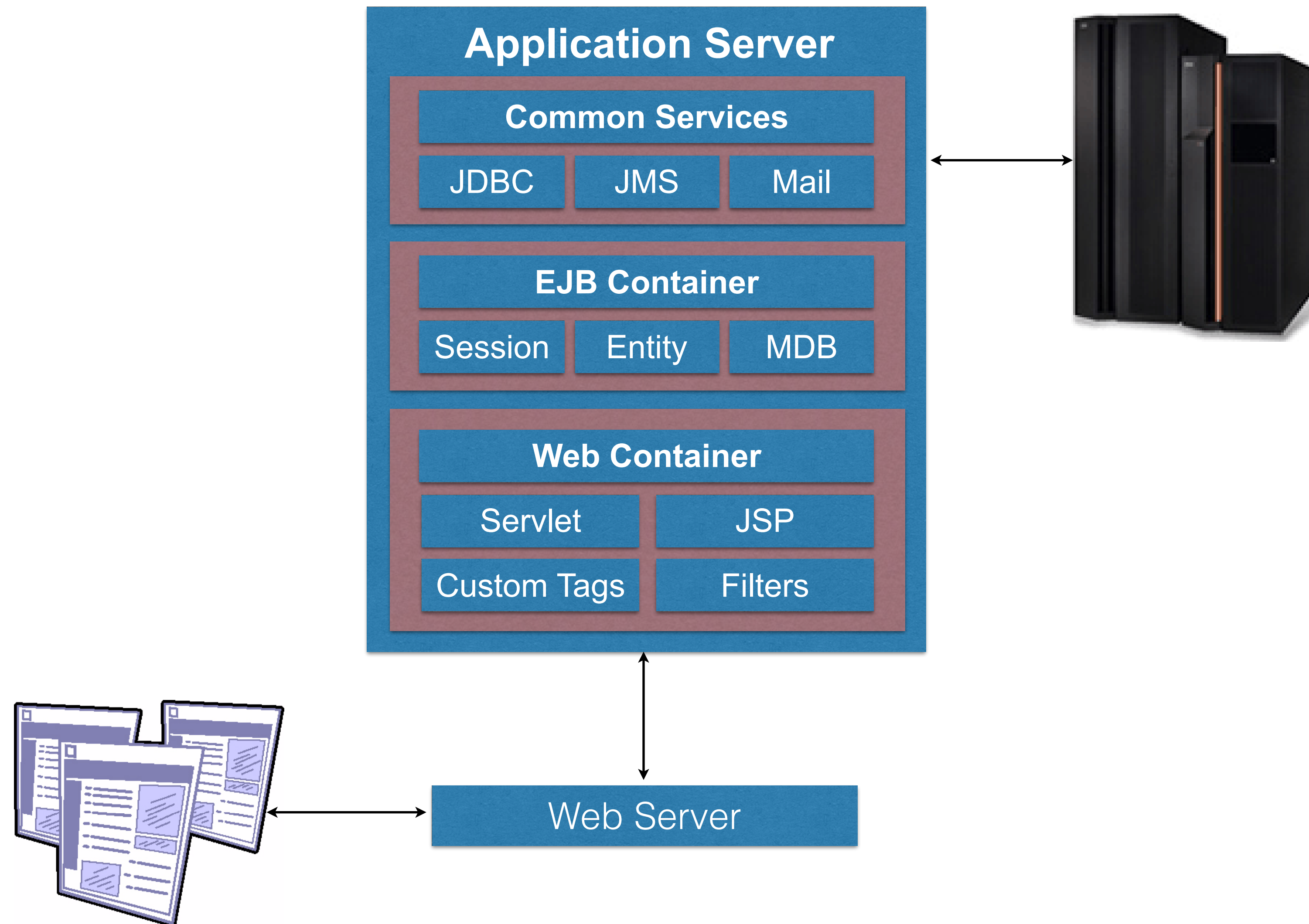
# The Origins of SOA

- SOA (Service Oriented Architecture) is a direct answer to the needs of the business users that require more flexible software applications that can be quickly adapted to rapidly changing market conditions
- SOA is based on technologies initially developed for B2B applications but that have proven very useful inside the intranet

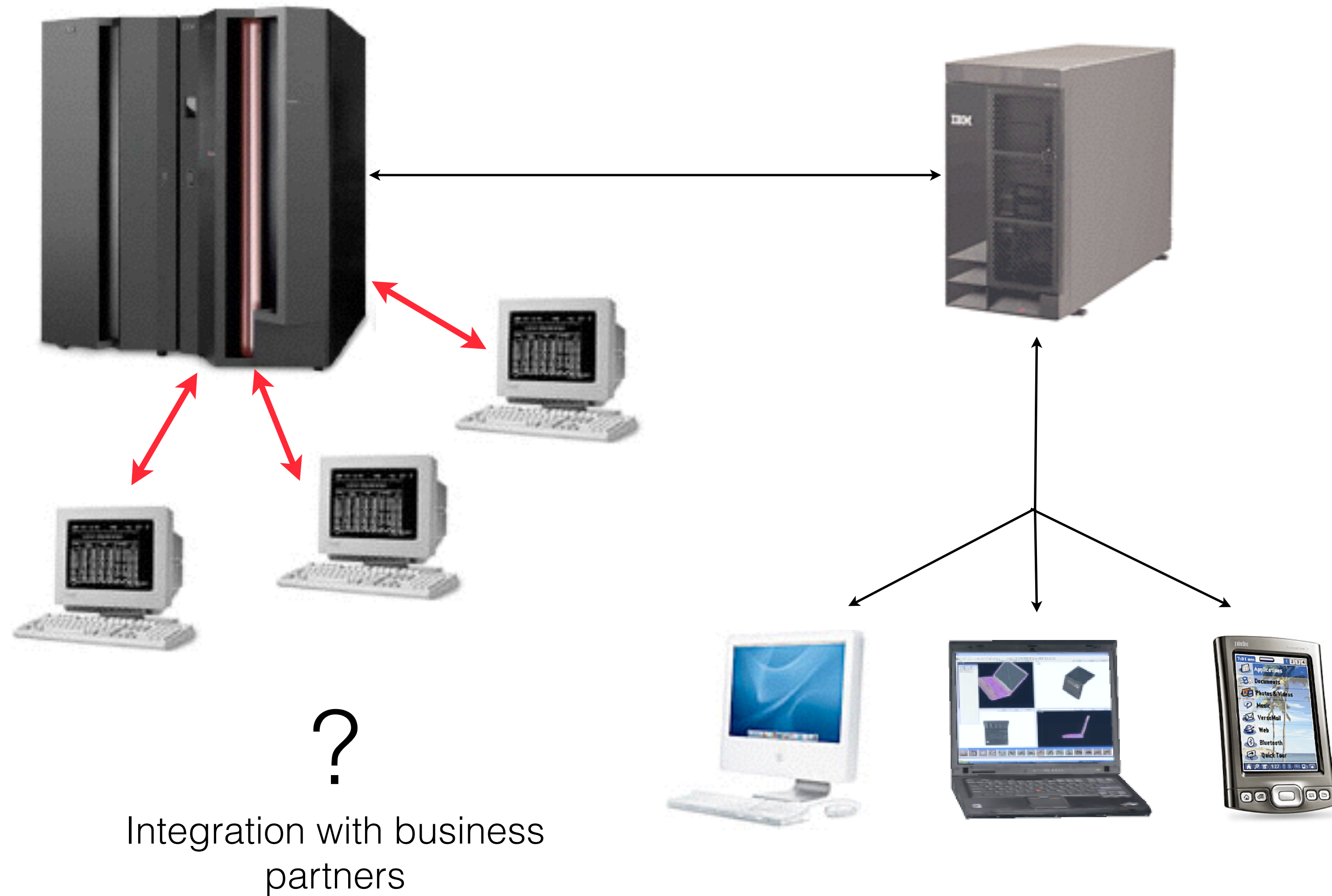
# Web Services, the evolution of e-business



# The traditional Web model



# Limitations of the traditional model

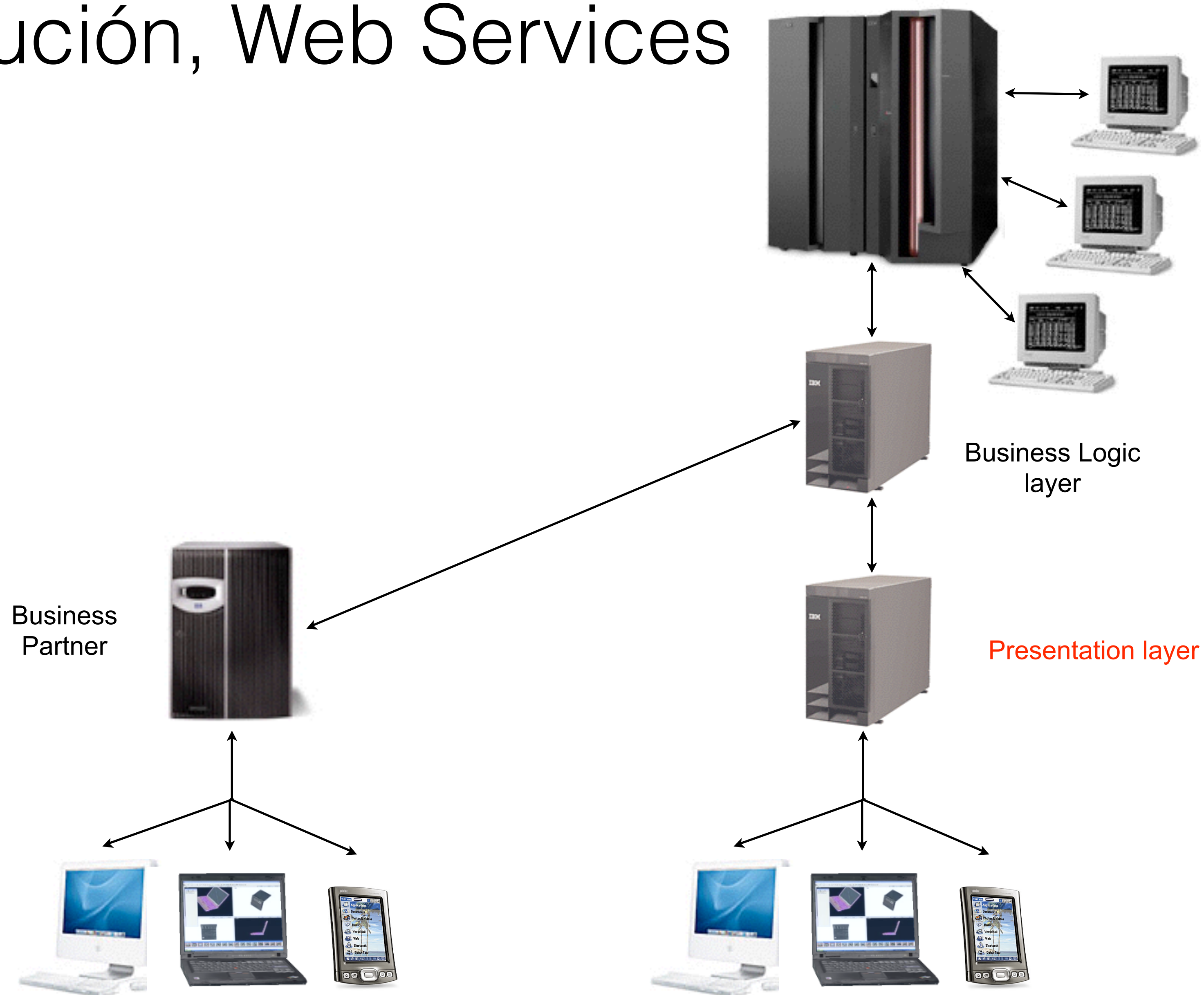


# The solution, Web Services

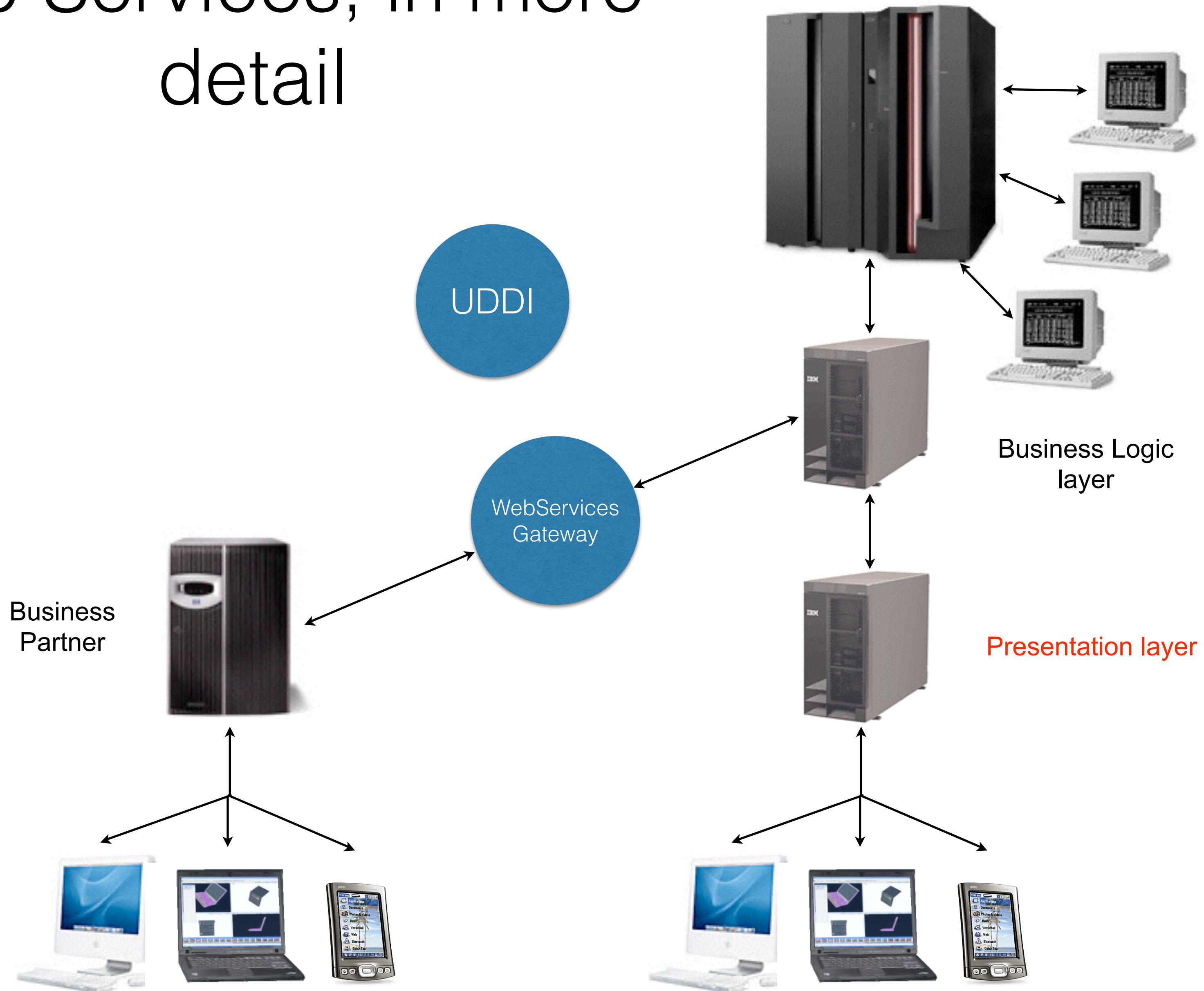
- Technology jointly created and proposed as a standard by IBM and Microsoft
  - Allows multiple applications to interact even if they have been written in different programming languages and are running on different operating systems
  - IBM has written most of the Java Web Services API reference implementations, as well as for Cobol and RPG
  - Microsoft has done the same for the .Net platform
  - IBM and Microsoft are founding members of the Web Services Interoperability Organization whose mission is to ensure the interoperability between web services written for different platforms



# La solución, Web Services

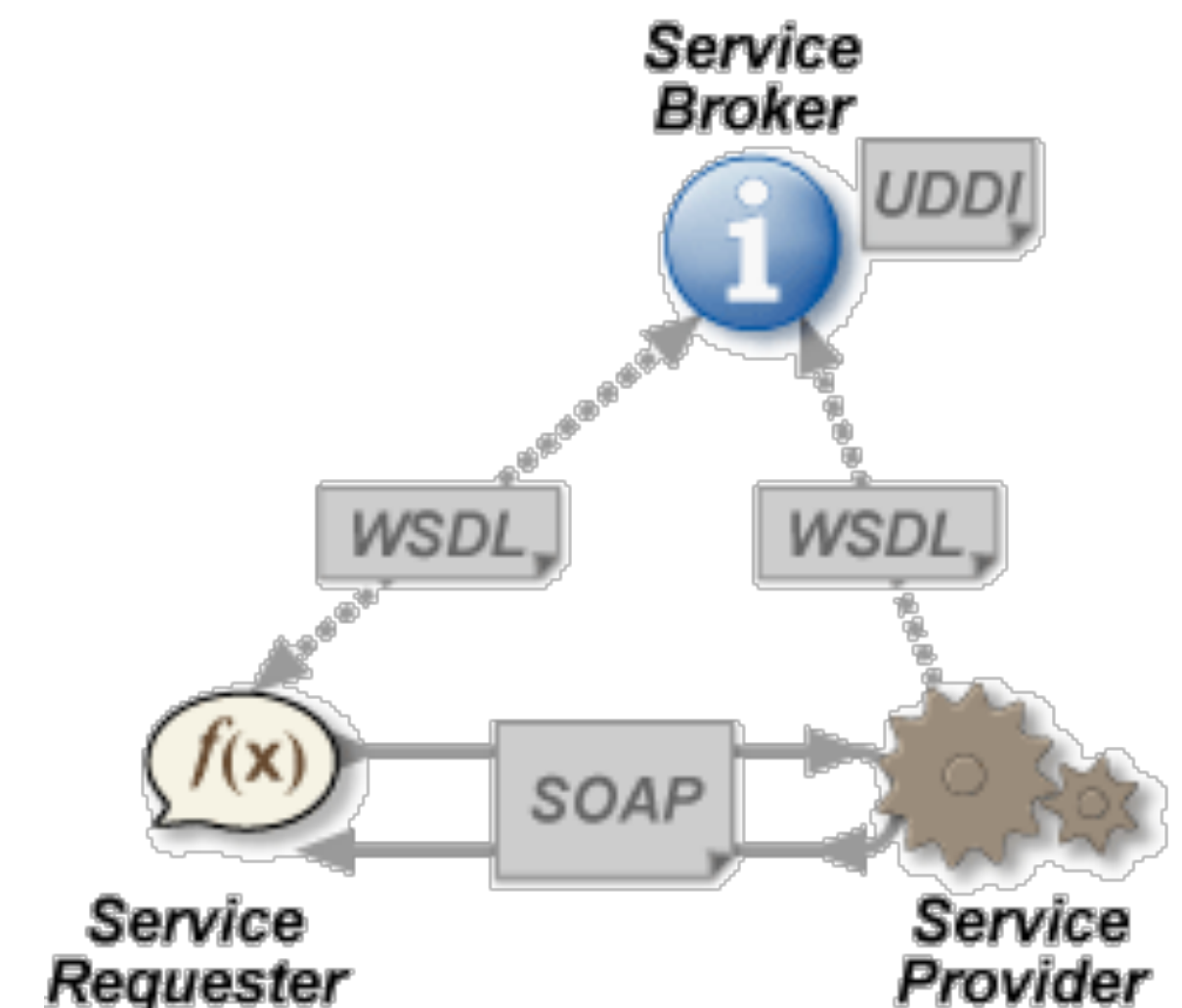


# Web Services, in more detail



# Web Services value proposition

- Component reuse
- Simplification of Enterprise Application Integration by using standard communication protocols to connect different systems
  - Tolerance for changes in infrastructure and network design
  - Dynamic interaction between business partners
  - Support for heterogeneous systems
  - Improve the flexibility of the systems



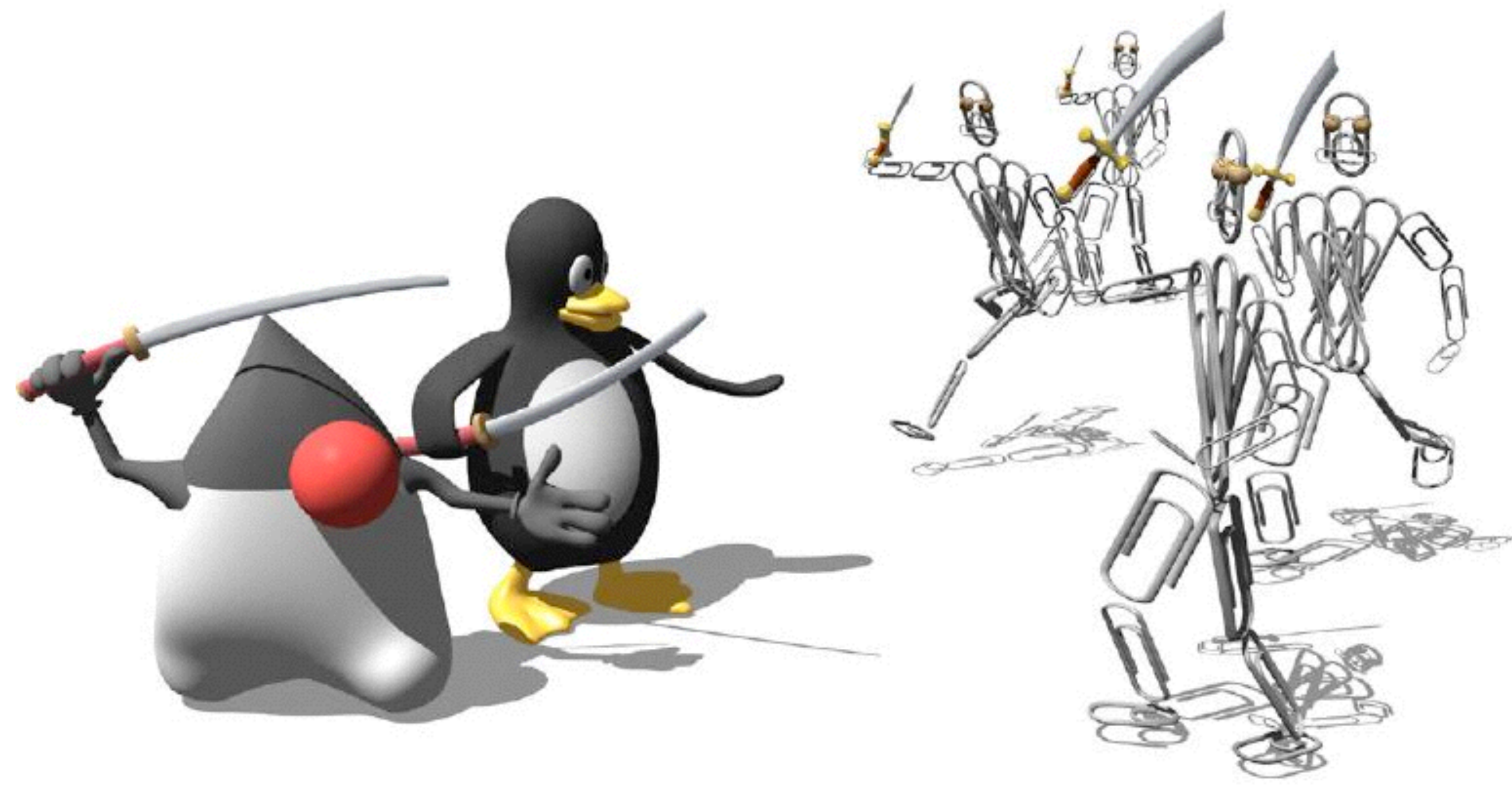


# Web Services and B2B

Currently Web Services are being used much more internally than in B2B scenarios.

This surprising situation is due to multiple motives:

- In order to be able to integrate the value chain, all players must be ready. This usually leads to a chicken & egg situation where everyone waits for the others to make the first move
  - However, more and more great web services are available and the situation is quickly improving
- Implementing web services within the company boundaries is much easier and allows to reap the rewards much quicker
  - IT Systems simplification
  - Component reuse
  - Opens the possibility of quickly creating new application by combining existing components



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