

Course overview:

Enterprise Architecture for Executives

(D135eng, 3-day)



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Overview and objectives

The primary objective of this course is to pull together into one cohesive unit an explanation of all the major technologies which comprise the enterprise computing architecture for organizations today. Major subject areas to be explored and reviewed are:

- ☑ Consider the evolution of client/server architectures into web based computing topologies, including 2-tier, 3-tier and multi-tiered application architectures.
- ☑ Discuss the role played by client devices, web servers, application servers, database servers and other specialized devices.
- ☑ Review the physical hardware and software components which comprise server-based systems. Subjects include RISC chip technology, SMP-architectures and multi-tasking operating systems.
- ☑ Discuss database technologies, including relational and object databases, transactional databases and data warehouses. Consider both the logical and physical architecture of such database systems.
- ☑ Consider message-based application service architectures, including service-oriented application protocols.
- ☑ Review network architectures, including broadband vs. baseband, local area, metropolitan area and wide area networks. Consider private and Internet network services.
- ☑ Understand logical models and CASE tools, including process modeling, function modeling and data modeling methodologies.
- ☑ Understand object oriented theory and its practical application in application design and programming.

Live demonstrations of various components are done using Oracle, Microsoft and other common vendor products.

Who should attend?

This course is appropriate for any systems professional or business professional who wishes to obtain an overall understanding of the varied computing technologies. Both practitioners and management personnel will benefit from this presentation.

No specific prerequisites are mandatory for this course. A general understanding of computing principles and computer hardware and software is helpful.

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Course content

MULTI-TIERED COMPUTING ARCHITECTURES

- 2-tier Client/Server computing model • Application Partitioning • Database Server-Side Program Unit Example • Peering Into The Architectural Components • 3-tier computing model • About Application Servers • N-tier computing model • The Java computing platform

SERVER-BASED COMPUTING

- Web and application servers • Database servers • Computing grids and farms • Parallelization technologies • Server processor architectures and performance

CLIENT SERVICES

- HTTP & URLs • Browsers and client-side processing • Enterprise and corporate portals • Dashboards and Portlets

WEB SERVICES

- About web caches • The Need For Web Caches • How A Web Cache Works • Oracle AS Web Cache Features • HTTP Servers • Server Components • Oracle HTTP Server Mods Illustrated

APPLICATION SERVICES

- About the application server architecture • About the service-oriented architecture • Identity management services • Oracle Internet Directory • Oracle AS Single Sign-On • Oracle AS Certificate Authority • Business intelligence services

MODELING METHODOLOGIES

- What is data modeling? • About system design methodologies • Additional Methodologies • About Version Control • Build a data model • More About Relationships

DATABASE SERVICES

- About relational databases • More about the SQL language • Relational database tables • Database server software components • Database objects • About the data dictionary • Data warehouses

NETWORK ARCHITECTURES

- Network technologies • Baseband Vs. Broadband • Wireless Communication • LAN architectures • About Ethernet • About Token Ring • Special Network Devices • ANSI/ISO OSI 7 network layers

OBJECT ORIENTATION

- What is an object? • Encapsulation • Modularity • Polymorphism • Classification and inheritance • Inheritance and Classification Illustrated

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