eCommerce Architecture

...we make your business unstoppable!

Clients
Presentation

Management

Security

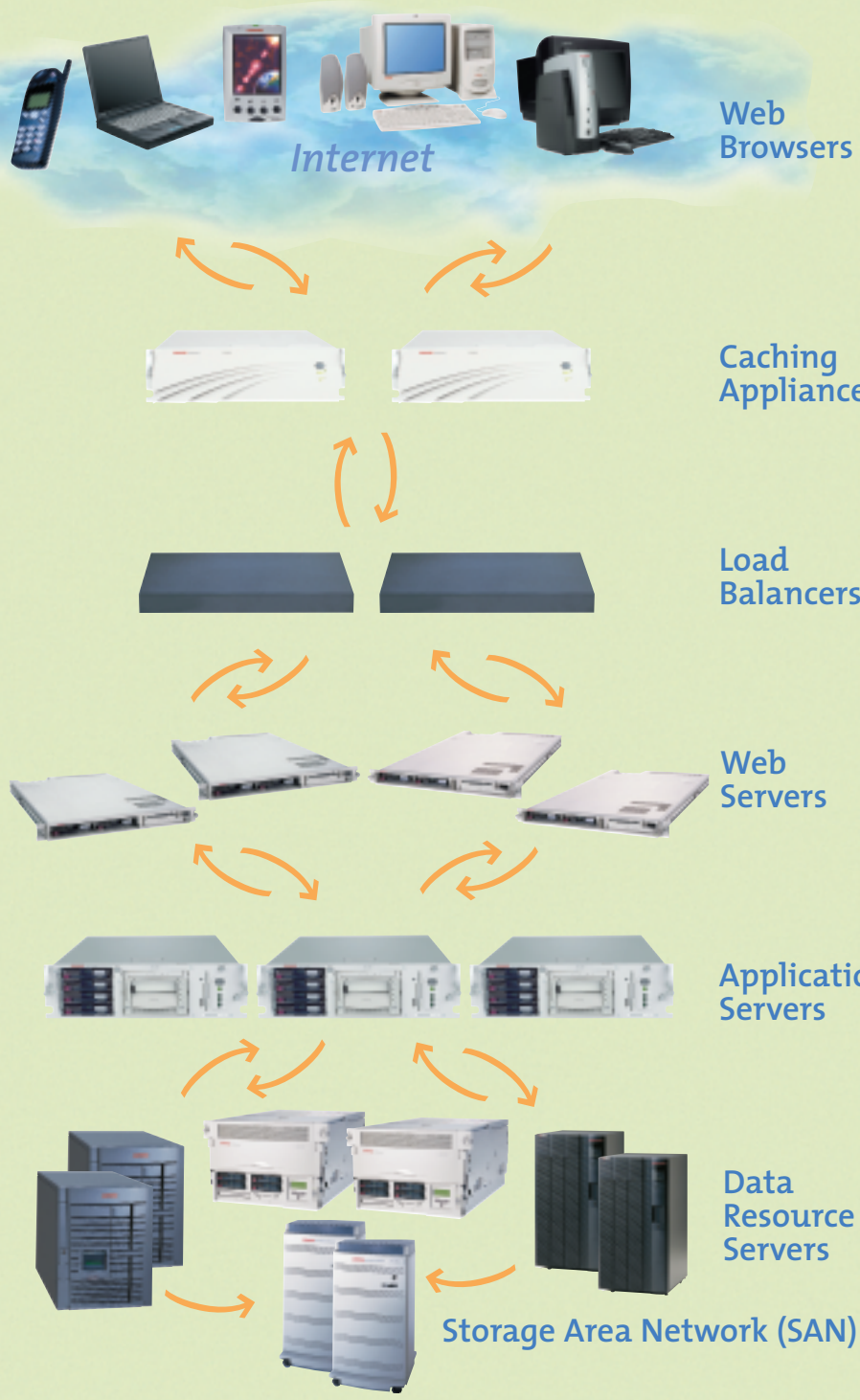
Caching
Web acceleration

Load Balancing
Workload distribution

Web Servers
Web access

Application Servers
Internet applications

Data Resources
Databases: customers, orders, products, prices



Distributed Internet Server Array Architecture

DISA

COMPAQ

Components:

- **Clients**
  Web browsers or other Internet application clients that interact with the system.
- **Caching**
  Web proxies that improve response time by serving cached static content.
- **Load balancing**
  IP load balancing technology that distributes client requests across an array of servers to maximize availability and performance.
- **Web servers**
  Array of Web servers that dynamically generate personalized content in collaboration with the business logic encapsulating application servers.
- **Application servers**
  Servers that execute the application logic associated with the client requests.
- **Data resources**
  Centralized, highly available repositories of critical application data and content, including file systems, databases, ERP systems or other existing systems.
- **Storage Area Network (SAN)**
  An open Storage Area Network (SAN) that supports heterogeneous storage systems as well as heterogeneous server platforms — to support any application, operating system, file system, server platform, storage system, tape library, and SAN interconnect device a customer wants.
- **Management**
  Strategies and technologies used to manage the hardware, software and networking components that make up a DISA-based application.
- **Security**
  Security technology and practices including firewalls, encryption, intrusion detection and virus prevention.

Benefits of DISA:

- **Peace of mind**
  DISA is built on proven best practices that assure a solid foundation and ongoing success for your Internet applications.
- **Maximum up-time**
  High availability and consistent performance save time and reduce frustration for your customers and users. The server redundancy built into the DISA architecture virtually eliminates application downtime.
- **Linear scalability**
  The DISA architecture allows administrators to quickly and easily increase capacity by adding additional application servers to the system. For example, a small DISA-based application may start with two application servers, then scale up to 32 application servers as the load increases if implementing Microsoft® Network Load Balancing (NLB). Compaq testing shows that adding application servers to a DISA-based application delivers true linear scalability.
- **Flexibility and open compatibility**
  Open, industry-standard technologies make deployment and operations simpler, reduce costs and allow greater flexibility than proprietary systems. The DISA architecture offers the flexibility to easily integrate heterogeneous environments, providing protection for existing IT investments.
- **Superior manageability**
  The DISA architecture simplifies content management, capacity expansion and maintenance. Compaq and partner management solutions fit easily into the DISA architecture, making it a highly manageable environment.
- **Lower cost**
  Easy linear scaling, industry-standard platforms and reduced downtime all help lower the total cost of your application. Rather than scaling from a single large system to another single large system, the DISA architecture provides an incremental cost-effective approach to scaling your application.

For More Information

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