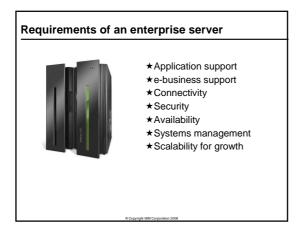
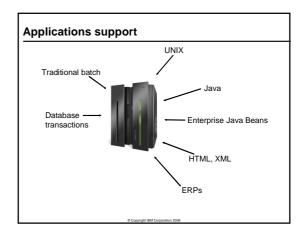
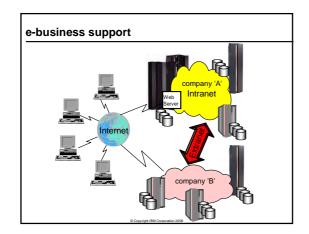
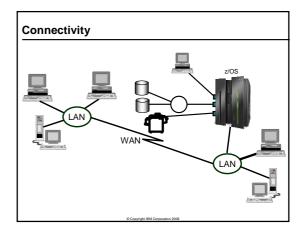


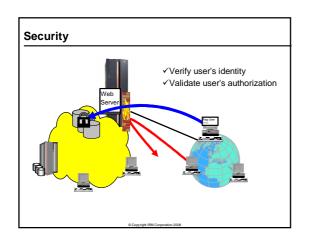
# Unit objectives After completing this unit, you should be able to identify the installation requirements for an enterprise server and how z/OS supports these requirements

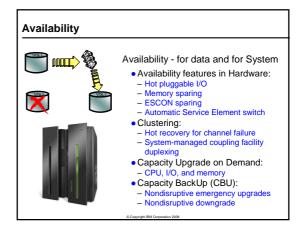


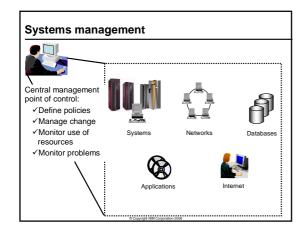


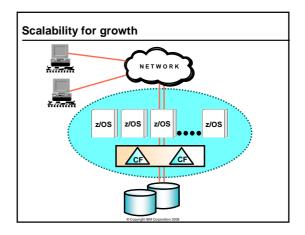


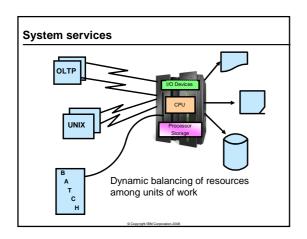


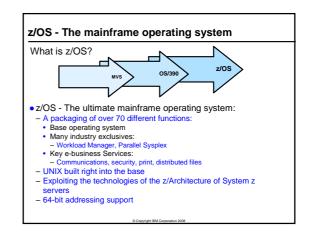












### z/OS - The ultimate zSeries OS

- - 1964 2003... OS/360 > MFT > MVT > SVS >OS/VS1 > OS/VS2 > MVS/370 > MVS/XA > MVS/ESA > OS/390 > z/OS
- Components (1/2)
  - Base control program
  - Job control for batch Job Entry Subsystem (JES)
  - Interactive access Time Sharing Option (TSO)

     File control and editing via ISPF/PDF
  - Workload Manager (WLM) and performance management with RMF
- z/OS Security Server
- Resource Access Control Facility (RACF)
   Cryptographic services
- PKI Services

### z/OS basics

- Components (2/2)
- Communications/networking
  Communication Server for z/OS
- Virtual Telecommunications Access Method (VTAM)
- SNA networking support
   TCP/IP for z/OS
- Services including FTP, Telnet, NFS, etc.

   Storage management

- Data Facility Storage Management Subsystem (DFSMS)
   Facilities for hierarchical storage management, sort, tape management,
- Unix System Services
- Core APIs in the base operating system
   Hierarchical File System
- Unix shell

# z/OS - IBM's flagship mainframe operating system providing the difference for on demand business

- z/OS the mainframe operating system that delivers:
- A highly available and secure base for integrating applications
- Resources optimized to meet business priorities
- Scalability for data and transaction growth
- Robust and resilient networkingBusiness resiliency
- With new directions helping to:
- Simplifying z/OS management
   Extending z/OS to help manage your mixed environment

## Defining characteristics of z/OS

- Uses address spaces to ensure isolation of private areas
- Ensures data integrity, regardless of how large the user population might be.
- Can process a large number of concurrent batch jobs, with automatic workload balancing
- Allows security to be incorporated into applications, resources, and user profiles.
- Allows multiple communications subsystems at the same time
- Provides extensive recovery, making unplanned system restarts very
- Can manage mixed workloads
- Can manage large I/O configurations of 1000s of disk drives,
- automated tape libraries, large printers, networks of terminals, etc.

   Can be controlled from one or more operator terminals, or from application programming interfaces (APIs) that allow automation of routine operator functions.

# **Unit summary**

Key points from this unit:

- z/OS offers a rich set of choices in the areas of application development and deployment.
- z/OS offers the functionality, performance, reliability, availability, and serviceability needed to support critical business applications like e-business.