Operating System Fundamentals

Module 2:

Installation and Configuration of an OS

- OS Requirements and Considerations
- Installations Checklist

Agenda

- Operating Systems may have different requirements based on:
  - Device
  - User
  - Server purpose
  - Corporate standards
  - Popularity
- It is impossible to consider Operating System requirements without considering the hardware on which it will run

OS Requirements

- Budget
- Accessibility to Technical Support
- Open Source
- User Accessibility
- Ease of development
- Security

OS Requirements – Considerations

- Basic hardware
  - RAM
  - Hard drive / Solid State Drive capacity
  - Processors
  - Partitioning
  - Virtual Machine
  - Display(s)
  - Keyboard/Mouse/Touch screen (Human Interface Device – HID)

OS Requirements - Considerations

- Drivers
  - Graphics Adapter
  - Network Adapter (wired and wireless)
  - Printers
  - Chipset
  - Processor
  - Sound Adapter
  - TV Tuner
  - And many more…

OS Requirements – Considerations

- Network
  - Local Area Network
    - Protocols
    - Domains (Microsoft)
    - Policies
  - Internet
    - Modem/ISDN card/ADSL adapter
    - ISP and services it provides

OS Requirements – Considerations

- Software Packages
  - Productivity (word processors, spreadsheets, etc.)
  - Development (Visual Studio, NetBeans, Eclipse, etc.)
  - Entertainment
  - Email Client
  - Utilities (Backup, Disk Management, Anti-virus, etc.)
  - Database Server
  - Web Server
  - Email Server
  - Cloud support

OS Requirements – Considerations

- Peripherals
  - Printers
  - Scanners
  - Cameras
  - Phones

OS Requirements – Considerations

- Method of Deployment
  - Attended/unattended installation
  - Multiple deployment
    - Disk images?
    - Number of users
    - Time it takes to install
    - User involvement

OS Requirements – Considerations

- Maintenance
  - Backup (image/incremental/etc.)
  - Updates (automatic, manual, by vendor, by corporation)
  - Update schedule
  - Disk management
    - Defragmentation
    - Cleanup

OS Requirements – Considerations

- Basic information
  - Who is software registered to? (Company or individual)
  - Date/Time
    - Time Zone
    - Format
  - Language support
  - License information

OS Installation Checklist

- Hardware
  - Installation key
  - Installation media (CD/DVD/USB/download)

OS Installation Checklist

- Software (OS and applications)
  - Installation key
  - Installation media (CD/DVD/USB/download)

OS Installation Checklist

- Network
  - Corporate network
    - Credentials (Username and Password)
    - Signal (Connection valid)
  - Internet Service Provider
    - Credentials (Username and Password)
    - Modem
    - Signal (Connection valid)
    - DNS Server
    - Email info – POP3/SMTP/IMAP

OS Installation Checklist