



LEARNING OBJECTIVES

- LO#01: Explain Operating System Concepts
- LO#02: Explain Different Types of File Systems
- LO#03: Explain Computer Network Fundamental Concepts
- LO#04: Summarize the Basic Network Troubleshooting Techniques
- LO#05: Explain Virtualization Concepts
- LO#06: Explain Network File System (NFS)
- LO#07: Explain Various Web Markup and Programming Languages
- LO#08: Summarize Application Development Frameworks and Their Vulnerabilities
- LO#09: Explain Different Web Subcomponents
- LO#10: Explain Database Connectivity

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LO#01: Explain Operating System Concepts

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Windows Operating System



- The Windows OS is developed by **Microsoft corporations** and is a widely used Operating System in most private and government organizations

Windows OS Family Tree		
MS-DOS-based and the Windows OS Versions	NT Kernel-Based Windows OS Version	
	For PC	For Server
MS-DOS 1.0	Windows NT 3.1	Windows Server 2003
MS-DOS 2.0	Windows NT 3.51	Windows Server 2003 R2
MS-DOS 2.1X	Windows NT 3.5	Windows Server 2008, Windows Home Server
MS-DOS 3.0	Windows NT 4.0	Windows Server 2008 R2
MS-DOS 3.1X	Windows 2000	Windows Server 2012
Windows 95	Windows XP	Windows Server 2012 R2
Windows 98	Windows XP Professional X64 Edition	Windows Server 2016
Windows 98 SE	Vista	Windows Server 2019
Windows ME	Windows 7	Windows Server 2022
	Windows 8	
	Windows 8.1	
	Windows 10	
	Windows 11	

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Windows Architecture



- The processors of the Windows system work in two different modes for operation

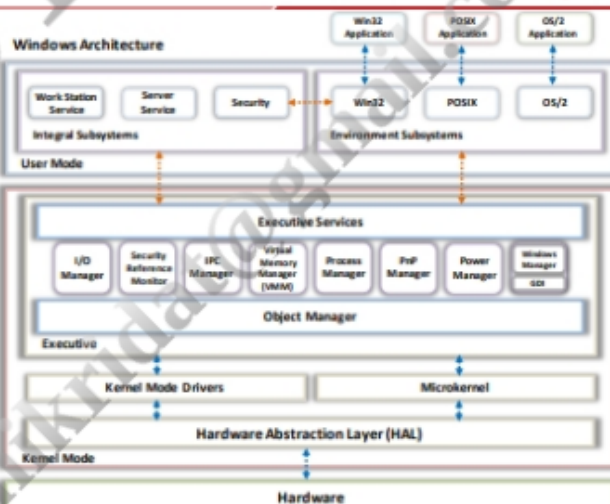
User Mode

- A collection of Sub-Systems
- Has limited access to resources

Kernel Mode

- HAL, Kernel, executive
- Unrestricted access to system memory and external devices

Windows Architecture



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Notes: _____
