

Exam 98-349: Windows Operating Fundamentals

Candidates for this exam should have knowledge of fundamental Windows Operating System concepts in a Windows 10 environment.

Microsoft
Technology Associate

Objective Domain

Understanding Operating System Configurations

- **Configure Control Panel Options.**
 - Configure administrative tools; configure accessibility options; configure power settings; configure File Explorer settings
- **Configure Desktop Settings.**
 - Configure profiles, display settings, and shortcuts; configure and customize Start Menu; configure Task Bar settings; configure toolbars; configure notifications
- **Configure Native Applications and Tools.**
 - Configure Microsoft Edge; configure Cortana; configure Hyper-V; configure settings using MSCOREL; configure processes and applications using Task Manager; configure computer management
- **Configure Mobility Settings.**
 - Configure Sync Center, Windows Mobility Center, and Remote Desktop
- **Configure and Use Management Tools.**
 - Configure MMC; configure the Windows PowerShell console and Windows PowerShell ISE

Installing and Upgrading Client Systems

- **Identify Windows Operating System Versions.**
 - Identify hardware and compatibility requirements; determine appropriate editions per device type
- **Identify Upgrade Paths.**
 - Identify upgrade paths from previous Windows versions; identify application compatibility
- **Understand Installation Types.**
 - Perform a clean install; upgrade via Windows Update; migrate from previous Windows versions; perform removable media installation; perform network installation
- **Understand Operating System Architecture.**
 - Understand kernel mode; understand user mode; understand memory, IRQs, drivers, CPUs, and UI; understand 32-bit vs. 64-bit architecture

Managing Applications

- **Configure Applications.**
 - Understand local vs. network applications; configure desktop applications; configure app startup options; configure Windows features; configure Windows SmartScreen; configure application removal; configure Windows Store apps
- **Configure User Account Control (UAC).**
 - Understand standard user vs. administrative user; understand types of UAC prompts and levels
- **Configure Anti-virus Setting.**
 - Configure Windows Defender and the Malicious Software Removal tool
- **Understand services.**
 - Understand service start-up types, service accounts, and service dependencies

Managing Files and Folders

- **Understand File Systems.**
 - Understand FAT32, NTFS, and ReFS
- **Understand file and print sharing.**
 - Configure File System permissions; configure Share Permissions; configure HomeGroup settings; configure print drivers; configure effective permissions; create shares; create mapped drives
- **Understand encryption.**
 - Understand BitLocker and Encrypting File System (EFS)
- **Understand libraries.**
 - Understand offline files; configure libraries; add multiple local locations to a library; add networked locations

Managing Devices

- **Connect Devices.**
 - Connect, enable, and disable plug-and-play and Bluetooth devices; connect and disconnect printers; install third-party software for devices; install device drivers
- **Understand Storage.**
 - Understand disk types, security (encryption), storage device types (eSATA, USB, IEEE 1394, iSCSI, Infiniband), and storage drive types (basic, primary, extended, logical, dynamic disk, VHDs); configure simple and spanned volumes; configure disk management; configure OneDrive use; optimize drives
- **Understand Printing Devices.**
 - Understand local printers, network printers, print queues, print-to-file, and Internet printing
- **Understand System Devices.**
 - Understand video, audio, and infrared input devices; understand Device Manager

Understanding Operating System Maintenance

- **Understand Backup and Recovery Methods.**
 - Configure System Restore; configure a recovery drive; configure recovery boot options such as Last Known Good and various Safe Mode options; recover files from OneDrive
- **Understand Maintenance Tools.**
 - Understand Disk Defragmenter, Disk Cleanup, Task Scheduler, and System Information
- **Configure Updates.**
 - Configure Windows Update options; implement Insider Preview, Current Branch, and Current Branch for Business scenarios; manage update history; roll back updates