**Key Terms of Chapter 4**

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| **Key Term** |  | **Definition** |
| Android | 一款手机操作系统 | Mobile phone operating system developed by Android for the Android phone |
| antivirus program | 防病毒软件 | System utility that guards a computer system against viruses or other damaging programs that can invade it |
| background | 后台软件 | Program or programs that are not active in your window on the desktop but are available to switch to from your foreground program |
| backup program | 备份软件 | System utility that makes copies of files to be used in case the originals are lost or damaged |
| booting | 启动 | The process of starting or restarting a computer |
| Chrome OS | 一款笔记本电脑操作系统，可用于云计算和云存储 | Based on Linux and designed for netbook computers that use cloud computing and cloud storage |
| cold boot | 冷启动 | The process of starting a computer after it has been turned off |
| computer support specialist | 计算机技术专家 | A person who provides technical support to customers and other users |
| Cortana | Windows可声控虚拟助理 | A Windows virtual assistant that can accept commands through voice |
| desktop | 台式机 | Provides users access computer resources |
| desktop operating system | 单机版操作系统 | Operating system controlling desktop or laptop computer (See also stand-alone operating system) |
| device driver | 设备驱动程序 | Specialized programs that allow particular input or output devices to communicate with the rest of the computer system |
| diagnostic program | 诊断软件 | System utility that recognizes and corrects problems, ideally before they become serious (See also troubleshooting program) |
| dialog box | 对话框 | A feature of a GUI operating system which provides information or requests input |
| embedded operating system | 嵌入式操作系统 | Also known as real-time operating systems and are entirely stored within a device |
| file | 文件 | Used to store data and programs |
| folder | 文件夹 | Container in a file management system where related files are stored |
| foreground | 前台软件 | Program currently running in the active window of the computer |
| gesture control | 手势控制 | Ability to control operations with finger movements, such as swiping, sliding, and pinching |
| graphical user interface (GUI) | 图形用户界面 | User interface that uses graphical elements such as icons and windows |
| guest operating system | 虚拟机操作系统 | Operating system for a virtual machine |
| help | 帮助 | Provides online assistance for operating system functions and procedures |
| host operating system | 主操作系统 | Operating system of a physical machine |
| icon | 图标 | Graphic representation for a program or function |
| iOS | 一款苹果系列机操作系统 | Developed by Apple (formerly known as iPhone OS) to support iPhone and iPad |
| language translator | 计算机语言翻译程序 | Converts the programming instructions written by programmers into a language that computers understand and process |
| Linux | 一款网络操作系统 | A nonproprietary version of Unix, popular and powerful alternative to the Windows operating system |
| macOS | 一款苹果机操作系统 | Operating system that is designed to run on Apple computers, popular iOS and iPadOS mobile operating systems are based off the macOS |
| macOS 12 Monterey | 12 Monterey版苹果机操作系统 | macOS, announced in 2021, includes the ability to control multiple devices from one keyboard and mouse, improved videoconferencing tools, and ways to customize notifications to reduce distractions. |
| menu | 菜单 | Provides a list of options or commands |
| mobile operating system | 智能手机操作系统 | Type of embedded operating system on every cell phone to control the operations (See also mobile OS) |
| mobile OS | 智能手机操作系统 | Type of embedded operating system on every cell phone to control the operations (See also mobile operating system) |
| multitasking | 多任务 | The ability to switch between different applications stored in memory |
| network operating system (NOS) | 网络操作系统 | Operating systems that are used to control and coordinate computers networked or linked together |
| network server | 网络服务器主机 | In a network environment, it is the main computer that coordinates all communication between the other computers. |
| open source | 开源（指公开源代码） | Programs released for free distribution to allow the program code to be modified and further developed by others |
| operating system | 操作系统 | Software that coordinates computer resources, provides an interface between users and the computer, and runs applications |
| pointer | 指针 | A graphic that is controlled by a mouse and changes shape depending upon its current function |
| real-time operating system (RTOS) | 实时操作系统 | Operating system stored entirely within a device, controls smartwatches, cell phones, video game systems and other small electronic devices |
| search program | 检索工具软件 | Provides a quick and easy way to search or examine an entire computer system to help you find specific applications, data, or other files |
| Siri | 苹果系列机虚拟助理 | Virtual assistant for Apple |
| software environment | 软件环境（=软件平台） | Another name for an operating system. (See also software platform) |
| software platform | 软件平台（=软件环境） | Another name for an operating system (See also software environment) |
| stand-alone operating system | 单机版操作系统 | Also called desktop operating systems that controls a desktop or laptop computer (See also desktop operating system) |
| storage management program | 存储管理软件 | Utility program that allows you to eliminate unused applications or archive large files |
| system software | 系统软件 | Works with end users, application software, and computer hardware to handle most technical details |
| tab | 标签 | Common feature of an application that divide menus into major activity areas |
| troubleshooting program | 故障诊断 | A system utility that recognizes and corrects problems, ideally before they become serious |
| UNIX | 一款网络操作系统 | An operating system that was originally designed to run on minicomputers in network environments, and currently runs on powerful microcomputers and servers |
| user interface | 用户界面 | How the user communicates with the operating system, computer, and/or application |
| utilities | 工具软件 | Perform specific tasks related to managing computer resources |
| utility suite | 工具软件套件 | A combination of several utility programs into one package |
| virtual assistant | 虚拟助理 | A utility that accepts commands through text or speech to allow intuitive interaction with your computer, cell phone, or tablet and coordinate personal data across several applications |
| virtualization | 虚拟化 | A method in which a physical computer can support multiple operating systems that operate independently |
| virtualization software | 虚拟化软件 | Software that allows the physical computer to be logically separated into separate and independent virtual computers |
| virtual machine | 虚拟机 | Virtual machine appears to the owner as a separate independent computer with its own operating system |
| virus | 病毒 | A dangerous program that can cause a variety of damage or problems to a computer |
| voice assist tool | 声控工具 | Allows a user to directly issue voice commands |
| warm boot | 热启动 | The process of starting or restarting a computer when the computer is already on |
| window | 窗口 | Rectangular area for displaying information and running programs |
| Windows | 一款操作系统 | Operating system released by Microsoft corporation, the most widely used personal computer operating system. |
| Windows 11 | Windows 11版 | Announced in 2021, Microsoft’s desktop, laptop, and tablet operating system. This version of Windows includes several innovations, such as a simplified user interface and improved support for mobile devices, such as tablets and 2-in-1 laptops. One of the biggest changes with Windows 11 is its ability to run Android apps on a Windows device. |