What is the maximum amount of memory that can be used in a 32-bit version of the Windows operating system?	4GB
Which version should you use when installing a Linux operating system and are concerned with end-of-life support?	The LTS (Long-Term Support) release is well-supported and will be regularly updated by the Linux distribution to support new hardware, performance, and security improvements. These LTS releases are supported for a long time (approximately 10 years), so they are great to use in production systems like servers.
A user recently bought a used Windows laptop. When they booted up the computer, they were not greeted with a normal desktop but instead will a screen filled with "tiles". Which version of Windows is the laptop MOST likely running?	Windows 8
Which type of installation would require an answer file in order to install the operating system?	Unattended installations use an answer file which contains user input to various GUI dialog boxes that would otherwise appear during the installation process. Unattended installation is the most practical way to install Windows when the client computers have different hardware components and an image file cannot be used. Unattended installations save deployment time and can be used either for clean installs or in place upgrades.
You are troubleshooting an issue with a Windows desktop and need to display the active TCP connections on the machine. Which of the following commands should you use?	Netstat
You have been asked to install a new hard drive in a Windows 10 system. You have already installed the hard drive and booted the system up. Which tool should you use to create the new partitions on the hard drive?	The Disk Management tool is used to display the drive status, mount the drive, initialize the drive, and create/split/extend/shrink drive partitions.
A user is complaining that every time they reboot their computer, a music application loads up. Which of the following commands would you use to disable the program from starting up each time Windows reboots?	The MSCONFIG utility has 5 tabs: General, Boot, Ser ices, Start-up, and Tools. If you click on the Startup tab, you will see every program that is configured to start up when Windows is booted up. This can be used to disable unwanted programs from launching during the boot-up process.
Judith is trying to install Windows 10 (64-bit) on a virtual machine on her Mac OS X laptop. The installation is continually failing and producing an error. You look at the virtual machine's specifications and see that Judith has configured a VM with a dual-core 1 GHz processor, 2 GBs of memory, a 15 GB hard drive, and a 1024x768 screen resolution. What would you recommend increasing to fix the installation issues being experienced?	*amount of hard drive space* For the Windows 10 (64-bit) operating system, the minimum requirements are a 1 GHz processor, 2 GB of RAM, and at least 20 GB of hard drive space. Since the virtual machine only has 15 GB of hard drive space allocated, this is causing the errors with the installation and must be increased.
What is the minimum amount of RAM needed to install Windows 8.1 on a 64-bit system?	For the Windows 8.1 (64-bit) operating system, the minimum requirements are a 1 GHz processor, 2 GB of RAM, and at least 20 GB of hard drive space
What is the minimum amount of hard drive space needed to install Windows 8.1 on a 32-bit system?	16GB For the Windows 8.1 (32-bit) operating system, the minimum requirements are a 1 GHz processor, 1 GB of RAM, and at least 16 GB of hard drive space.
A developer uses a MacBook Pro when working from home, but they need access to both a Windows and macOS system to test their programs. Which of the following tools should be used to allow both operating systems to exist on their MacBook Pro?	Boot Camp is used to allow dual booting on a Macintosh computer. It allows the user to boot into either macOS (OS X) or Windows as the computer is rebooted
A new corporate policy dictates that all access to network resources will be controlled based on the user's job functions and tasks within the organization. For example, only people working in Human Resources can access the employee records and only the people working in finance can access customer payment histories. Which of the following security concepts is BEST described by this new policy?	Least privilege is the concept and practice of restricting access rights for users, accounts, and computing processes to only those resources absolutely required to perform routine, legitimate activities. Privilege itself refers to the authorization to bypass certain security restraints.
WEP	weakest security connection type
	A botnet is a number of Internet-connected devices, each of which is running one or more bots. Botnets can be used to per-

botnet	form distributed denial-of-service attack (DDoS attack), steal data, send spam, and allows the attacker to access the device and its connection
zombie	A zombie (also known as a bot) is a computer or workstation that a remote attacker has accessed and set up to forward transmissions (including spam and viruses) to other computers on the Internet
rootkit	a clandestine computer program designed to provide continued privileged access to a computer while actively hiding its presence. A rootkit is generally a collection of tools that enabled administrator-level access to a computer or network. They can often disguise themselves from detection by the operating system and antimalware solutions. If a rootkit is suspected on a machine, it is best to reformat and reimage the system.
power user	By default, the rights and permissions that are granted to the Power Users group include those rights and permissions that are required to allow members of the Power Users group to modify computer-wide settings, to install drivers, and to run (or install) non-certified programs. They have many of the permissions of an administrator but without the ability to change everything in a Windows workstation.
low-level formatting	Low-level formatting is a hard disk operation that should make recovering data from your storage devices impossible once the operation is complete
how to speed up bootdrive	To speed up the boot process, you can defragment the hard drive, remove unnecessary applications from startup, install additional RAM, and replace the hard drive with an SSD. But, to do it with the least amount of expense, you can only defragment the hard drive or remove unnecessary applications from startup since these actions do not require any additional components to be purchased.
You have decided that you wanted to install a second operating system on your computer. After installing the OS and rebooting the computer, you see the "Operating System Not Found" error on your display. You verify that the boot.ini file is configured properly, but the error still appears. What is MOST likely causing this error?	An incompatible partition is marked as active
Invalid or Expired Security Certificate error	One of the common causes of an Invalid or Expired Security Certificate error is the clock on the user's computer being wrong since the website security certificates are issued to be valid within a given date range. If the date of the certificate is too far outside the date on the computer, the web browser will give you an invalid security certificate error because the browser thinks something is wrong. To fix this, simply set the computer's clock to the correct date and time.
Browser redirection	Browser redirection usually occurs if the browser's proxy is modified or the hosts.ini file is modified. If the redirection occurs only for a small number of sites or is occurring in all web browsers on a system, then it is most likely a maliciously modified hosts.ini file. The hosts.ini file is a local file that allows a user to specify specific domain names to map to particular addresses. It works like a very basic DNS server and can be used to redirect a system's internet connection. For example, if your children are overusing YouTube, you can change YouTube.com to resolve to YourSchool.edu for just your child's laptop.
Rogue antivirus	Rogue antivirus is a form of malicious software and Internet fraud that misleads users into believing there is a virus on their computer, and to pay money for a fake malware removal tool (that actually introduces malware to the computer). It is a form of scareware that manipulates users through fear, and a form of ransomware. Since the alert is being displayed on a macOS system but appears to be

	meant for a Windows system, it is obviously a scam or fake alert and most likely a rogue antivirus attempting to infect the system.
seven steps of the malware removal procedure	The seven steps of the malware removal procedures are (1) Identify and research malware symptoms, (2) Quarantine the infected systems, (3) Disable System Restore (in Windows), (4) Remediate the infected systems, update the anti-malware software, scan the system, and use removal techniques (safe mode, pre-installation environment), (5) Schedule scans and run updates, (6) Enable System Restore and create a restore point (in Windows), and (7) Educate the end user.
A physical network diagram	diagram shows the actual physical arrangement of the components that make up the network, including cables and hardware. Typically, the diagram gives a bird's eye view of the network in its physical space, like a floorplan. A logical network diagram describes the way information flows through a network. Therefore, logical network diagrams typically show subnets (including VLAN IDs, masks, and addresses), network devices like routers and firewalls, and routing protocols.
A backout plan	IT governance integration approach that specifies the processes required to restore a system to its original or earlier state, in the event of failed or aborted implementation. Any installation or upgrade should include a backout plan as part of the change request and change plan. That way, if something goes wrong with the installation then the team can "backout" and restore service on the legacy/previous system (or older version of the firmware in this case).
Material Safety Data Sheet (MSDS	is a document that contains information on the potential hazards (health, fire, reactivity and environmental) and how to work safely with the chemical product. It is an essential starting point for the development of a complete health and safety program. The MSDS also includes the directions for proper handling and disposal of the chemicals.
PII	(Personally Identifiable Information),
PCI	Payment Card Industry
GDPR	General Data Protection Regulation
Chain of custody (CoC)	in legal contexts, is the chronological documentation or paper trail that records the sequence of custody, control, transfer, analysis, and disposition of physical or electronic evidence. It is important that the chain of custody be maintained from the time you arrived at the laptop until you turn it over to law enforcement officials.
When telnet should be used?	Telnet should not be used in a network due to its weak security posture. Telnet transmits all of the data in plain text (without encryption), including usernames, passwords, commands, and data files. For this reason, it should NEVER be used in a production networks and has been replaced by SSH in most corporate networks.
NTFS	New Technology File System. A file system used in Microsoft operating systems that provides security. NTFS uses the DAC model.
FAT 32	This file system retains some features of the original FAT while reducing the maximum size limit of the file cluster so the space on the disk can be more efficient.
EFS	Encrypting File System
nslookup	A utility that is used to test and troubleshoot domain name servers.
Radius	
TACACS	Terminal Access Controller Access Control System