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43 Environmental Controls . We will create a data mirror between sdb and sdc. This is called discontinuous transmission (DTX), and simple issues like this are easily avoided with user training. You have to consider the requirements for specific drivers and applications. 384 Glossary . TCP You'll come across plenty of literature that states that TCP is a "connection-oriented reliable protocol." Great. Identify and prioritize critical IT systems and data. Periodic fire drills are a must! Smoke detectors can alert technicians to impending fire issues, but the detectors used in data centers are much more sensitive than those you would use in the home. SANs are not specifically related to cloud computing. In the enterprise, troubleshooting can involve poor performance, double data rate (DDR). Refers to memory chips; data is transmitted on the rise and fall of a timing signal. Verify that Charlie has authenticated to the server first. Select the iSCSI virtual disk, and then look under iSCSI Targets and take note of the target IQN, shown in the following illustration; you'll need this in a few steps. What type of malware encrypts data files and demands payment before providing a decryption key? iSCSI initiators consume disk space over the network from iSCSI targets. Capacity is the size of the device. (Source: CompTIA Exploiter Perceptions of IT Training and Certification.) Universal Skills CompTIA certifications are vendor neutral—which means that certified professionals can proficiently work with an extensive variety of hardware and software found in most organizations. Which term correctly identifies your firewall? A network broadcast attack is taking place. Some enterprise networks don't encrypt internal network traffic, but many threats can cause havoc within a network. Then what? Top-level domains include suffixes such as .com, .edu, .net, and others. What makes this solution attractive is its price tag, and it gets the job done. You might use one rack to accommodate servers and another to accommodate storage arrays. If the problem exists on hundreds or thousands of switches, many technicians might be required to solve the problem quickly, or, where possible, an automation script might be used. MAC A Edison plugs are more rounded than NEMA plugs, but like NEMA, Edisons have three prongs. Remote Authentication Dial-In User Service (RADIUS) A protocol that provides authentication, authorization, and accounting management to users who use a network service. To this day, it continues to evolve and innovate the management of servers, but SAS is more common on the server side. 246 Chapter Review . Server Roles Servers are dedicated to provide some kind of business value to an organization. Caution Uninterruptible power supplies (UPS) are heavy! As with other heavy items, use proper lifting techniques to avoid injury. UP with uses, not server farms. Figure 8-7 Taking a snapshot of a VMware virtual machine CompTIA Server+ Certification All-in-One Exam Guide 220 Other than virtual machines, you can apply to disk volumes, entire storage arrays, logical unit numbers (LUNs), hypervisors, and databases; they are often used in SAN environments, where they're called storage snapshots. Null modem cables are used to link modem devices directly together. On the left, click CDDVD, and on the right, click Use ISO Image File. DDR Double data rate (DDR) memory increases data transfer rates to and from memory, compared to single data rate (SDR); it's all based on timing. When you test the theory and it proves to be effective in removal of the issue, you need to develop a plan of action. B and C are incorrect. Click Install Now. Which Windows command shows DHCP lease information? Modern projectors support Wi-Fi, so they can be discovered on the network—but, again, there's a huge threat here. The wording on signage can be important for legal reasons: you don't want parties claiming they didn't know they were being watched and that their privacy rights have been violated. UPS systems enables servers to shut down properly instead of abruptly, which can corrupt open files. Layer 7. Layer 3 switches add routing capabilities. The Terdio server must reside on the IPv4 Internet. If you're lucky, you'll be able to rebuild affected systems quickly from images and backups—but it's not always that easy. Then click Next. Some servers will accept only double data rate 3 (DDR3) memory, others use DDR4, and so on. Most bare metal Figure 8-8 Windows Server 2012 bare metal backup option Chapter 8. Preparing for the Worst 321 tools use recovery points, which are essentially snapshots of changes at various points in time. power supply unit (PSU) A computer component that transforms AC power supplied by the power company to lower voltage DC power for internal components. Configure servers and their IT workloads. Samba enables Linux clients to contact Windows SMB shared resources. False positives D. Imagine a network problem created by switch VLANs that have been incorrectly implemented in a large data center. In an attempt to save disk space, Sean wants to store multiple Windows Server 2012 images in a single .WIM file. USB A. Server hardware normally supports RAID integrated on the motherboard; otherwise additive RAID within the operating system on need. + Full • Differential • Incremental • Snapshot • Bare metal • Are backups being performed or server drives or network links? Network Optimization In addition to getting faster network equipment (switches, routers, NICs) or Internet connections, you can improve network performance with your already-deployed hardware. Buy type-specm-pdature-specific hard drives for your server requirements that are installed (no X in the box). Disk mirroring is not used to replicate data between sites. Monitor servers and their IT workloads. Government laws and regulations in some parts of the world require that specific OS-building solutions be used to ensure there are no data remnants. Click Software Selection and choose Server With a GUI. Type 2 C. If you were to store those five images in a single .WIM, the total consumed disk space would be only 25GB. Your organization's ISP provides the company with a single network address of 200.200.1.0/24. 12 Troubleshooting . Query needs access to budget files stored on a file server in order to compute her salary. Some network software will allow you to specify the port number that it listens on while others will not. If prompted when you start Wireshark, click the network interface whose Packets column displays a changing number (this means packets are arriving in and out). From the taskbar, start PowerShell; this is the command you'll need to run. PXE booting makes it possible to boot from a NIC to retrieve a small operating system from a boot server that runs locally in server RAM. malware Malicious software such as a virus, worm, and spyware. Unimode C. Figure 6-7 Windows BitLocker settings CompTIA Server+ Certification All-in-One Exam Guide 240 The certificate contains a unique public and private key pair for the user that is employed for EFS encryption and decryption. This saves technicians from having to configure IP settings manually on each and every device. Careful arrangement of equipment can allow for optimal airflow, and ensuring adequate temperature and humidity levels can go a long way toward ensuring that hardware does not fail prematurely. D A drive image is an exact copy of a hard disk (or partition), including the OS, applications, and configuration data. Virtual machine technology uses abstraction to enable a single physical machine—Disable unused accounts. You wanted to encrypt the contents of drive E: using the Encrypting File system, but it didn't work. Disable the New Zone Wizard have to acquire rail kits. The Virtual Machine File System (VMFS) is specific to VMware. Our focus will be on securing system resources at the file system level. 187 GDP . Figure A-3 Windows Server 2012 R2 download web page CompTIA Server+ Certification All-in-One Exam Guide 346 Figure A-4 Red Hat Enterprise Linux 7 download web page Lab Exercise Miscellany When installing both the Windows and Linux operating systems in a VMware Workstation during the lab exercises, you'll be prompted to specify a password. When routing cables around corners, make sure you don't exceed the cable bend radius, which determines the degree to which you can install without damaging the wires inside it. Certified technicians can follow proper procedures when replacing failed components such as Fibre Channel HBAs or motherboards. For example, you can change the date and time on a server, or you cannot. The server is mounted into rails on a server rack. Click the green plus sign at the top of the screen to add mounted items. • Conduct periodic BO drills. Depending on your environment, you may not need or use a print server; instead, client devices can be configured to print directly to network-based printers, but this lack of centralized management control can prove challenging on a larger network. What should the technician do next? This requires an additional IP configuration because the server OS does not have to be running. Cable Labeling Most people like spaghetti, but not in a server room. Exercise 6-2: Use the Red Hat Enterprise Linux 7 iSCSI Initiator to Connect to an iSCSI Target 1. Rather than simply tolerate equipment failures, wise network technicians manage equipment failures at each stage by using standardized conventions. Firmware and driver updates should be applied for optimal stability and functionality. 200 Hardening 6 enables IPv6 networks to communicate over the IPv4 Internet; routers in both locations must support IPv6 on their internal interfaces. You'll find more about UPSs in Chapter 9. IPv6-ready hosts, you to remove these doubts with 3 formats of its CompTIA 800 results announced. Enter 145GB as the size and click Next. The maximum amount of data traveling over a network will ripple-be attained at any point in time. That means on a Windows environment, your clients will be using a primary and secondary domain name system (DNS) server. Local Backup Security The first security consideration is how to connect to the storage and the cloud server. Many options are available for Windows 7 SP1, as well as much of its original settings and configurations. One option is to use a physical medium such as Windows DFSR and rsync, which can run on Windows and Linux platforms. eFAT B. • Read questions and answers slowerly. Troubleshooting Methodology Follow the standard troubleshooting steps: 1. MAC 19. He enjoys spending time with his spouse, Stacey; children, Roman, Trinity, Kaylee, Anastasia, and Zoey; and the family dogs, Dori and Bailey. Add a check mark to Active Directory Certificate Services. You may want to keep the following hardware and software toolbasics handy: • Multimeter to test power supplies • Hardware diagnostic tools for memory tests 7-5); RAID controllers, disks, motherboards, expansion cards • Can of compressed air for removing dust • Antistatic wrist straps and ESD mats • Tool for testing bad RAM chips Software Problems and Solutions More often than not, you'll be troubleshooting software issues instead of hardware issues. Multimeters can be used to verify that the correct voltage is delivered from power supplies to components. wii Acknowledgments . You should use the "Source" as being one of the pool.ntp.org servers. 284 Too Much Running . Notice all of the captured network packets. Figure 3-2 shows the Add Roles and Features Wizard that is used to add roles to a Windows server. VLAN spanning tree is not a type of VLAN attack. Permissions inheritance can be altered by clicking the Disable Inheritance button—you get to this screen by right-clicking a file or folder and choosing Properties, click the Security tab, then click the Advanced button. Adobe Acrobat, Adobe Reader, or Adobe Digital Editions is required to view the file on your computer. Multiple DNS servers can be used for high availability and better performance. Section C. What type of medium is used to bolt or bolt with at least two network interfaces? Or a client desktop might require a unique PKI certificate before being given access to a restricted web site. Linux server administrators can use the chmod command to modify file system permissions. AAAA A ipconfig /all D. public key authentication Authentication that uses a related public and private key pair instead of the standard username and password. time-domain reflectometer (TDR) C. Troubleshooting and Performance Optimization 247 From a consulting perspective, the problem isn't solved until the customer is satisfied. Hardware for the hypervisor must be planned relative to the virtual machines and their workloads that it will host. Most servers these days use network storage, so the power consumption in this case would apply to the storage enclosures itself and not the server. Notice the Network Adapter on the left. These days, all of this can be automated and is readily accessible to small, medium, and large enterprises. 144 Hands-on Exercises . • Determine whether alternative sites will be used. From the Start menu, type performance and press ENTER to start Performance Monitor. Once OS and application software is installed, patched, and configured, data is required. POP uses TCP port 110, SNMP is UDP 161, and IMAP is TCP 143. UDP 161 is for SNMP, TCP 161 and 123 are not normally used. Bear in mind that SSDs draw less power than traditional spinning hard disks. Prior to WINS servers becoming common, each Microsoft system used a local text file called lmhosts to resolve NetBIOS computer names to IP addresses. Monitoring Monitoring the performance of servers is an ongoing task. If a server fails, users get redirected to the network service on a running server. • Log formatting is possible using Windows Event Log Forwarding and Linux syslog forwarding. In the packet header section, expand the Ethernet II header. To run, the screen resolution must be set to 1024 × 768 or higher. Types specified by verified TCP/IP settings would be using the primary and secondary DNS server shown here. IP Address: 192.168.1.230. The iSCSI target server is the network service that makes block storage (LUNs) available to iSCSI initiators. Disk I/O. 165 Guide Types . space capacity A, C. So a device with a MAC address of 90-48-9A-11-BD-6F could be configured to be in VLAN1. Choose Create A New Virtual Disk, and click Next. Microsoft AD DS, or simply AD, is LDAP-compliant. This chapter focuses on how to troubleshoot a wide variety of issues to get people productive as quickly as possible. 165 Guide Types . fe80 is a valid IPv6 local address prefix. CompTIA Server+ Certification All-in-One Exam Guide 248 22. Which statement regarding software RAID controllers is true? fc00::/7 is the reserved address for unique local addresses (ULAs). Cable management arms confine server cables and fold out when the server is slid out on rails. play-and-play (PnP) A device that can be automatically discovered and used when installed while the computer is still powered on. Check the obvious! With regard to the single issue, once you begin to formulate a theory of probable cause, you might find that this symptom occurs on other servers or devices, too. Rack-mounted C. This is done with the TCP three-way handshake. He later realizes the interswitch connection is not working. 335 Appendix A About the Download . The same type of activity takes place on the other end, so each party in the conversation. But you server side, you should consider if the number of network clients or types of network service. Change the boot order to ensure that PXE boot is listed first. horsepower is needed. Asynchronous replication includes a slight delay before data is written to alternate sites, and as a result this is less expensive than synchronous solutions. Create a DR plan for each IT service. From the list of operating systems to install, choose the second option, Windows Server 2012 R2 Standard Evaluation (Server with a GUI), and then click Next. For instance, flawed firmware code could cause server operating system instability. Chapter 8. Preparing for the Worst 337 Exercise 8-1. In this example you run a computer and many portable devices. Enter-Pro5ession -computername Server1 Get-Service You can interactively start a remote PowerShell session on a remote host. The bit rate indicates that when the CPU needed transistors or data, it was retrieved from cache in a bit instead of from another slower location (such as finding data in L1 cache instead of L2). As users and data travel between locations, network resources are consumed. A hub sends data to all connected devices, while a switch sends data to specific destinations. called a forward lookup. Host-based firewall Every device (including hardware appliances) where possible, should be running a host-based firewall to control and outbound traffic for that device. Ensure that you are logged into Srv2012-1 with the Administrator account. moptor OS configuration, or 1018, bytes. Hot sites urge to-date with continuous data protection (CDP) replication between sites, so that data is accessible from the hot site should the primary site become inaccessible. For instance, troubleshooting the slowness of a server application on a large web site, you may notice a high amount of network traffic on. Imagine a data center with 1000 hypervisor operating systems, which, of course, will need updates on a continuous basis. Open the System control panel applet. CompTIA Server+ Certification All-in-One Exam Guide 110 4. Server management C. As an IT service consumer, you may have to adhere to certain rules, such as how servers are used or what updates and software are allowed on servers. Well, for disk space our statement of wisdom will be, "If you make it available, it will be consumed." As storage capacity increases and becomes cheaper, we seem to continue to find a way to gobble it all up for storing movies, music collections, company data, operating system images, and so on. D This means IPv6 has many more unique IP addresses compared to IPv4. tower server A computer intended to be a server in an upright case that can stand alone. PowerShell will then return info about the DNS server, including the zones. The most common use is to allow internal hosts to gain Internet access via one IP address of outgoing transmissions is translated to the NAT router's public interface IP address. Administrators must assign the appropriate share and NTFS file system permissions to control access (ACLs) to give user access; more on this in Chapter 6. A new web server is installed in your Intranet web site. Exercise 7-3: Use Windows PowerShell to Retrieve Event Log Information 1. Packets destined for port 25 are not broadcast packets, nor are they DNS queries, which use UDP port 53, or web server requests, which would use TCP port 80 or 443. The Linux traceroute command shows information for each router crossed when communicating with another host. On the right, right-click the Contracts folder and choose Restore Previous Versions. hard disk drive (HDD) . A magnetic data storage device that stores information on rigid, rapidly rotating platters. The idea is that edge devices (SOHO) forward authentication requests from connecting devices and users (supplicants) before allowing network access. PXE B. AD is a replicated network database that is synchronized between domain controllers (DCs). One benefit of NFS is that it's very easy to set up: you don't have to create a share first. A wireless access point (WAP) broadcasts one or more wireless network names (SSIDs) from which users can choose to connect. Type the tracert command and press ENTER followed by an IP address or host name. For example, to view the Tcp/IP settings from your Linux scripts, you'll feel right at home in OS X at a terminal prompt. Don't waste your time and concentrate on each learning content which is expected in the actual exam. Requirements for Hands-on Exercises You'll need VMware Workstation 10.x as well as the installation media for Windows Server 2012 R2 and Red Hat Enterprise Linux Server 7 to follow along with the hands-on exercises in this book. You need to be familiar with server types and their purposes. POP and SMTP use port 995 and 465 (secured using SSL by default), virtualization, IPv4 and IPv6 networking, cloud computing, operating systems, networking, and troubleshooting. Type the man ifconfig command and press ENTER, as shown in the following illustration. 31 Memory . CompTIA Server+ Certification All-in-One Exam Guide 232 5. IDS/IPS Use intrusion detection and prevention solutions on networks and hosts where appropriate. What role does a default gateway serve on an IPv4/IPv6 environment? Ask a question or state a specific problem. network adapters. You might want VLANs to isolate network traffic for performance or security reasons. Many servers use memory chips that can detect and fix memory corruption; the term used for this type of memory is error-correcting code (ECC) memory. Types of devices appear to be coming from the same Internet IP address. This is the most common type of main system memory. Copy C. managed-pki service C. Cloud-based managed PKI service. Assess risk A. 363 2.5 Explain the importance of asset management and documentation. devices appear to be coming from the same Internet IP address. This is the most common type of main system memory. Copy C. managed-pki service C. Cloud-based managed PKI service. Assess risk A. 363 2.5 Explain the importance of asset management and documentation.

Chapter 1: Introduction to CompTIA Server+ Certification All-in-One Exam Guide exhausted by completing the lab exercises. The archive bit is normally cleared. Most power companies around the world deliver 1-phase and 3-phase power. Red Hat Enterprise Linux 7, for example, uses Kickstart files to automate installations. It's safe to say that accessing your enterprise network probably performs better than CompTIA Server+ Certification All-in-One Exam Guide 76 accessing files over the Internet. The human element. Have thorough background checks performed. The no-final wizard page, click Finish. Windows Server Update Services (WSUS). A program developed by Microsoft that enables administrators to deploy updates selectively to computers in a corporate environment. Low RTO D. Actually, this is just a techie's attempt at humor. Set policy to alert us CompTIA Server+ Certification All-in-One Exam Guide.

binary, the last octet is 11100000. MX records are mail exchange records used to locate SMTP mail servers. Interested listeners must be registered with the multicast group address to receive transmissions. Suffice it to say the standard firewalls are not designed to mitigate DDoS attacks. Plastic cable ties and hook-and-loop fasteners can be used to keep bundles of n etwork cables together. TCP is the Transmission Control Protocol; it is a reliable connect-oriented transport protocol within the TCP/IP suite. Which of the following are considered out-of-band server management solutions? Add a check mark to the Web Server (IIS) option if prompted to install tools accept. Type Internal and then press enter. Those using Linux systems can use the old fdisk command to work with MBR; the gdisk command is used for GPT. B, C, and D are incorrect. Type B A. There are different DDR standards, or versions, and they are not compatible with one another. Differential backups capture all changes since the last full backup. L1 cache D. Make sure you are logged into the Srv2012-1 virtual machine with the Administrator account (Fakedomain\Administrator) with a password of Pa$$w0rd (or whatever you have indicated as the password). Disks can be grouped together to increase disk read and write performance, to increase fault tolerance when disks fail, or both. The column access strobe (CAS) latency defines how long it takes for requested memory contents to leave the actual memory chip on their way to the bus. Wake-on-LAN The common NIC feature is Wake-on-LAN (WoL). Network Problems and Solutions Network problems can be hardware related, software related, or both. Web applications can be configured to trust security tokens issued from a trusted identity store. To cut to the chase, DHCP is nothing more than TCP/IP settings configured centrally and delivered to clients over the network. Despite "fibre" being in the name, it does not require fiber-optic cabling; standard twisted pair copper cables will work just fine. You'll need the appropriate access to install software on the computer and it will have to meet hardware requirements listed in the following sections. Notice the version of the Contracts folder from when the snapshot was manually created earlier in this exercise. • Use a test environment. getfacl and setfacl are Linux commands, and cipher is a Windows command for working with the Encrypting File System (EFS). Storage Tiers All storage and data are not equal. SSDs offer better performance than hard disks, and valuable data should be quickly accessible. CUPS Chapter 3: Server Operating Systems 113 17. Learn more about what the exam covers by reviewing the following: Purchase a voucher at a Pearson VUE testing center or at CompTIAstore.com. Accounting department computers do not need to communicate with other computers. Open source Single Sign-On identify provider solution. Using PowerShell scripts for automating Windows Server administrative tasks is becoming more and more popular. Chapter 8: Preparing for the Worst 339 14. The fakedomain.local AD domain now exists. iSCSI Internet Small Computer Systems Interface; SCSI disk commands are placed into IP packets, which enables servers to connect to network storage using standard network equipment. Windows servers typically use NTFS, where Linux servers vary: Ext3, Ext4, and ReiserFS are common. 361 2.1 Install and configure server operating systems 4G 3. Common Copper Cable Uses When the eight copper wires in a network cable are in the same position at both ends (the pin 1 wire on one end corresponds to pin 1 on the other end of the cable), we have a straight-through cable. A unit of digital information equivalent to about 1 billion bytes, or 1000 megabytes. Upon restart, cached data is actually committed to disk. This is done by using host bits so that you can address your subnets. You need to understand storage options in both hardware and software levels, because when the data storage is seen by the server operating system, it needs to be c onfiguration— initialized, partitioned, and formatted. A much more exhaustive list will be presented in Chapter 5. IPv6 also includes built-in mechanisms that improve network quality of service (QoS) as well as security. Server Form Factors Physical servers and their parts come in a variety of shapes and sizes, or form factors. Web server authentication to protected web sites is often performed by an underlying DS, whether the web site is on-premises or in the cloud. cipher An algorithm used for encryption, decryption, or hashing mathematical operations. Chapter 4: Storage 151 Chapter Review Server storage is a crucial part of server planning, including potential future disk space requirements. Higher end switches will use fiber-optic cabling to link together, or trunk, switches. UDP port 22 is blocked on Server2. APIPA addresses are the result of a device not being able to contact a DHCP server. Click OK three times to return to Windows Explorer. The root, or top-level, CA should be kept offline, because if it is compromised, so, too, are all certificates issued within that hierarchy. Bus C, TX D. Some folks learn best by doing; that's why you'll find hands-on exercises using both Windows and Linux at the end of each chapter. The goal is to keep equipment cool and energy costs down. Figure 6-15 shows key options when configuring Windows Firewall, including using the Kerberos protocol, certificates, and preshared keys. Open PowerShell icon (third icon from the bottom left on the taskbar). Type ifup eno16777736 and press enter (your interface name may be different; you can type ifconfig to see its name). Assigning permissions to groups, not users Managing permissions for individual users doesn't scale well and can present a security risk for forgotten user permissions. The c means create, v means verbose output, z means compress output with gzip. In contrast, the v means verbose output, x means extract, z means uncompress with dynamic memory; VMs needing RAM can get it from other VMs not needing it at the time. Table 7-1 lists common hardware problems and solutions. Note · Most servers and related equipment have hardware sensors that detect environmental conditions such as temperature. 109 Questions . Therefore, a smaller MTTR value is desirable. Which spring-loaded fiber-optic cable connector is commonly used with multimode fiber cables? • Follow OS and application configuration best practices. Figure 7-4 Windows Server 2012 R2 failed software RAID 5 array CompTIA Server+ Certification All-in-One Exam Guide 268 Document the Solution Throughout the troubleshooting process, your structured approach will eventually reveal a root cause and related remedies to prevent future occurrences. Disaster recovery plans must take the RTO into account. Ensure that New iSCSI Target is selected and click Next. Server Administration Methods Server administration methods include the following: • Locally at the console • Remotely using GUI tools such as Microsoft RSAT or RDP • Remotely using Telnet or SSH • Remotely using PowerShell or WinRM KVM is used to connect to numerous servers where a single keyboard, video display, and mouse is used. The Linux tar Command You can also use the Linux tar (tape archiver) command to create compressed archives for backup purposes. Write D. Threat engineering is a made-up term. Press n (new partition), and then press enter four times to create a primary partition that consumes the entire disk. Appendix Real-World Best Practices Certified CompTIA Server+ technicians are expected to understand not only concepts, but how they are applicable in real network environments. 294 Questions . Because many servers today access data storage over a network, it makes sense to place tiered storage capabilities in front of SAN storage. Table C-2 Virtualization Best Practices Details to Consider Why It Is Relevant Is cloud computing the right choice for your company? PowerShell DSC can even be used to manage cloud virtual machines. 241 Hands-on Exercises . • Solution: Create new users from a template that includes required groups. During the preparation, you can be confused about CompTIA exam question types, exam pattern, and allocated time to attempt questions of the CompTIA Server+ certification exam. Chapter 2: Server Hardware 63 25. ACK Sent by the initiator, this acknowledges receipt of the target's ISN. WinRM and PowerShell Windows admins can also use PowerShell to manage Windows servers remotely or manage the Linux server as it has arrived. 343 Acquiring Windows and Linux Installation Media . In this case, a DNS server controlling the data for only wheducation.local is said to be authoritative over the wheducation.local zone. Keep this documentation under lock and key, and encrypt any files containing this stuff. 291 Troubleshooting Methodology . IPv6 does something similar, but not exactly the same. This will run the commands with elevated privileges. Your Windows or Linux server can easily be made into a RADIUS server by installing the appropriate software and configuring a RADIUS shared secret between the RADIUS clients and the RADIUS server (see Figure 6-10). CAT6 Category 6 copper-wire network cabling that is designed to support up to 10 Gbps. Add members to the group. input/output operations per second (IOPS) A unit of measurement for the maximum number of reads and writes a storage device can perform per second. A service level agreement (SLA) is a contract between a provider and consumer stating expected levels of service, including details such as uptime and response time. If you are not logged in with the root user account, you will need to precede Linux commands with sudo for elevated privileges. • VMs can be configured with dynamic memory; VMs needing RAM can get it from other VMs not needing it at the time. Determine UPS kW or VA rating, calculate power draw sum of devices. widgets.local, even though other stations do not have this problem; the error messages states "Unknown Host." The technician successfully pings the default gateway to verify a valid IP configuration from Charlie's station. In Server Manager, click the flag notification icon in the upper right. Backup and Restore Best Practices After you select a backup solution, you need to use and test payment systems, and they have more security built in. 100 Exercise 3-4: Install the DHCP Server in Windows Server 2012 R2 . 371 5.0 Networking . Start PowerShell from the taskbar and type install-windowsfeature as a DNS authority such as FreeDNS, GoDaddy, and others. This can improve airflow, which can also save money by saving energy in the long run. 96 Exercise 3-2: Install the DNS Server Role in Windows Server 2012 R2 . 371 5.0 Networking . Start PowerShell from the taskbar and type install-windowsfeature -includemanagementtools 3. The Linux disk free (df) command (Figure 7-12) has a -h (human readable) switch to show file systems and their disk space usage statistics in terms of megabytes, gigabytes, and so on, instead of in units of 1KB blocks: df -h Figure 7-11 Repairing an XFS file system using xfs_repair in Linux Figure 7-12 Viewing disk free space in Linux using the df command CompTIA Server+ Certification All-in-One Exam Guide 278 Figure 7-13 Viewing disk I/O statistics using the iostat Linux command To determine which Linux disk device has the most I/O activity, use the iostat command, as shown in Figure 7-13. Choose Custom and click Next. Chapter 6: Security 257 7. To look up the best way to send packets to a remote network, routers consult their routing tables, which include information about other IP networks and characteristics (routing metrics) such as the route cost, how many hops (routers) the packet would have to go through before arriving at its destination, and so on. Common VPN types include PPTP, L2TP/IPSec, and SSL. • How will we secure the server? GPT B. When admins RDP into Server Core, they simply get a command prompt. Configure device claims with identify federation, and configure the web apps to trust the devices. Hot B. Enter the name of the storage pool, SwRaid, and click Next. Server needs to be patched C. With base 2, we would say 210 = 1024 (2 × 2 = 4, 4 × 2 = 8, and so on). Tower server motherboards will most likely accommodate PCIe cards, but older ones might support PCI. shielded twisted pair (STP) A type of twisted-pair cable that has an additional outer covering to protect against outside interference. 108 Server Maintenance . Hot D. You can download and configure the free PuTTY tool to make SSH connections to network devices including UNIX and Linux hosts from within a Windows environment, as shown in Figure 3-13. CompTIA Server+ Certification All-in-One Exam Guide 192 10. On the License Agreement screen, select I Accept The Terms In The License Agreement, and then click Next. Type service restart and press enter to put the settings into effect. The more CPUs and RAM in a system, the greater the power draw. Some hardware appliances and software configurations require the use of certain ciphers. Encrypt data at rest Protect stored data with encryption on all types of storage media including, but not limited to, USB thumb drives, storage arrays, cloud storage, and smartphones. For example, to configure a network ACL on a Cisco router, we would type the following: interface ethernet0 ip access-group 102 in access-list 102 permit tcp any any eq www CompTIA Server+ Certification All-in-One Exam Guide 228 This allows (permit) incoming (in) traffic from anywhere to anywhere (any any) as long as the destination port is equal (eq) to www (TCP 80). Press enter after each command you issue in this exercise. Windows Tools You can manage and troubleshoot disks on Windows servers in a number of ways. PXE A, B. The standard two-prong (or three-prong with ground) plug used in North America, the NEMA connector (National Electronic Manufacturers Association), is shown in Figure 2-10. 44 Temperature . Most blades have a USB connector on the front in case you want to connect external components such as a DVD drive. Chapter 1: Introduction to CompTIA Server+ Essentials 5 The more equipment you have, the greater the power draw, which means more heat is generated, which means more cooling is required. 10. Which disk speed factor does not apply to SSDs? 1 Chapter Introduction to CompTIA Server+ Essentials In this chapter, you will • Learn about server hardware components • Learn how storage systems can be configured and provisioned • Review basic network security concepts • Review basic networking concepts • Learn about troubleshooting and optimizing performance • Learn about disaster recovery This chapter provides an overview of topics (all of the gory details follow in Chapters 2-8) that you're sure to see on the CompTIA Server+ SK0-004 exam. Assemble the BCP team. The network environment, as shown in Figure 3-13. CompTIA Server+ Certification All-in-One Exam Guide 294 *. Insufficient permissions to access a network resource • Too many permissions granted beyond what is required • Incorrectly assigned share, NTFS, or Linux file system permissions • Group Policy setting applying too little or too much security • Linux users not using the sudo command prefix to run elevated commands • Unnecessary installed software • Unneeded running services • Incorrect configured network firewall ACLs • Mismatched cryptography ciphers • Inability to decrypt transmissions or files Performance Optimization Performance optimization can result from replaced components, changed configurations, and ongoing monitoring of resource use. Six disk partitions are required for varying file storage uses. Glossary 407 Universal Serial Bus (USB) A standard serial bus that is used as a connector between computer peripherals and computers. Geofencing is another great way to control where mobile device apps can be used. Actually, it is used even if you manually configure IPv6 on a host. CompTIA Server+ Certification All-in-One Exam Guide 310 Then there's the issue of data. Aside from OEM hardware and server technologies, server vendors provide monitoring tools are available, such as Spiceworks and Microsoft System Center Operations Manager, to name a few. Chapter 6: Security 231 Figure 6-14 PKI hierarchy Certificate authority (CA) Subordinate CA 1 Issued PKI certificates Subordinate CA 1 Issued PKI certificates You can install your own CA within your organization, which can then issue selfsigned PKI certificates as you see fit. Either way, servers need to be secured and the effectiveness of security controls continuously evaluated. 440v/460v/480v • Wattage • Consumption • Redundancy • 1-phase vs. Total amount of CPU computing power C. TCP 80 B. 3G Third-generation wireless telecommunications network. CompTIA Server+ Certification All-in-One Exam Guide 388 CAT3 Category 3 copper-wire network cabling that is designed to support up to 10 Mbps. • Run antimalware scans. Encrypt the hard drive B. This encryption thus consists of two items, they both fall under a single category (something you know), so we want to connect external components such as a DVD drive. Chapter 6: Security 231 Figure 6-14 PKI hierarchy Certificate authority (CA) Subordinate CA 1 Issued PKI certificates Subordinate CA 1 Issued PKI certificates You can install your own CA within your organization, which can then issue selfsigned PKI certificates as you see fit. Either way, servers need to be secured and the effectiveness of security controls continuously evaluated. 440v/460v/480v • Wattage • Consumption • Redundancy • 1-phase vs. Total amount of CPU computing power C. TCP 80 B. 3G Third-generation wireless telecommunications network. CompTIA Server+ Certification All-in-One Exam Guide 388 CAT3 Category 3 copper-wire network cabling that is designed to support up to 10 Mbps.

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