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Understand modern network topology, protocols and network implementation infrastructure based on specific requirements Install and customize DNS and DHCP Monitor and analyze network traffic Understand IPv6 and IPv4 solutions, routing and switching Perform basic router/switch installation and configuration Explain the functions of the network device in cloud environments Effectively implement and troubleshoot WANs Set, set up, set up, Security and Troubleshooting Wireless Networks Apply patches/updates, as well as support for change/configuration management Describe the unified communication technology segment and optimize the network To identify risks/threats, comply with policies and physical security, set up firewalls, and access control Understand the basic concepts of network forensics Troubleshoot routers, switches, wiring, connectivity, and security Companion website website contains a powerful Pearson Test by setting out a full assessment of your knowledge to help you focus your research where it is needed most. 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Understanding Modern Network Topology, Protocols and Infrastructure Implementing Networks Based on Specific Requirements Installing and Setting DNS and DHCP Monitoring and Network Traffic Analysis Understanding addresses IPv6 and IPv4, routing and switching Perform basic router installation/switch and configuration Explain network device features in cloud environments Effective implementation and troubleshooting WANs Installation, setting up, security Support support Describe Unified Communication Technologies Segmentation and Network Optimization Identifying Risks/Threats, Providing Policy and Physical Security, Setting Firewalls, and Access Control Understanding Of Basic Network Forensic Concepts Websites Website TroubleShooting Routers, Switches, Wiring, Connection, and Security ⬜ Introduction Chapter 1: Introduction to Network Wired Technology and Wireless Network Topology Topology Ring Topology Wired Grid Topology Wireless Topology Hybrid Topology Hybrid Topology Topology Topology Topology Topology Topology Topology Topology LaNs WLANs MANs MANs PANs Io Technology -Wave Ant Bluetooth NFC IR RFID 802.11 Magic for 802.11n and 802.11ac Summary 802.11 Wireless Standards What's Next? Глава 2: Модели, порты, Протоколы и сетевые услуги Модель сети OSI OSI Семислойная модель Сравнение OSI с четырехслойной TCP / IP модель выявления OSI слове, на которых различные сетевые компоненты работают порты и протоколы подключения ориентированных протоколов по сравнению с беспрофиенными протоколами Интернет-протокол протокол управления передачей данных Протокол передачи файлов Протокол Безопасный протокол передачи файлов Trivial Протокол передачи файлов Простой протокол передачи почты Протокол Hypertext Протокол передачи Протокол Безопасный протокол передачи почтовых отделений Протокол 3/Internet Message Shell Internet Control Message Protocol Network Time Protocol Легкий протокол доступа каталога H.323 Простой протокол управления сетью Протокол инициации протокола удаленного рабочего стола Протокол Сервера Сообщение Блок Понимание портовых функций ARP и RARP Сетевые услуги Domain Name Service (DNS) DNS Namespace Типы DNS Записи DNS Записи DNS в практической реализации Динамический протокол конфигурации хоста DHCP процесс DHCP и DNS Suffixs DHCP Следующий? Chapter 3: Addressing, routing, and switching IP address IPv4 IP Address Classes Subnet Mask Appointment Subnefting Identifying differences between IPv4 public and private networks Classy Interclassic routing default gateways Virtual IP IPv4 Address Types IPv6 Addressing Comparison IPv4 and IPv6 Address destination IP addresses   The default Gateway Routing Tables Static Routing Techniques switching software-defined network dynamic routing network traffic routing metric of virtual local-regional networks Spanning Tree Protocol Interface configuration and Switch Control Trunking Port Mirror Port Authentication Power over Ethernet DM' MAC Address Control Switch Managed and Unmanageable Traffic Service Formation Access Control Lists What Next? Chapter 4: Network Components and Devices Shared Network Devices Firewall Router Hub Hub Hub Wireless Access Point Media Converter Wireless Range Extender VoIP End Network Devices Summary Advanced Network Devices Multi-Layered Switch Wireless Load Load Load Counter IDS/IPS Proxy VPN Hub AAA/RADIUS Server UTM Appliances and NGFW/Layer 7 Firewalls VoIP PBX Chapter 5: WAN Technologies WAN Technologies Integrated Services Digital Network Leasing Fiber Lines, SONET, and OCx Levels Relay Relay Asynchronous Mode Transfer Copper vs. Fiber Other Technology WAN Internet Access Technology DSL Internet Access Cable Broadband Security Reasons Dial-Up Public Switched Phone Network Satellite Internet Wireless Internet Access Points What Next? Chapter 6: Cabling Solutions General Media Broadband Vs. Baseband Transmission Simplex, Half-Duplex, and full duplex data transfer modes Types Network Media Types Media Connectors Media Couplers/Converters 568A and 568B Standards of Wiring straight through compared to crossover Rollover Cables and Loopback Cables Cables Content Components Distribution Ethernet Standards Of Common Wired Issues Attenuation Delay Jitter Crosstalk EMI Open / Short Wrong Pin-Out Wrong Cable Types Bad Port Transceiver Mismatch TX /RX Reverse Duplex / Speed Mismatch Damaged Cables Bent Pins Bottlenecks VLAN Network Link Led Indicator Status What's Next? Chapter 7: Wireless Solutions Understanding Wireless Basics Of Wireless Channels and Frequency Cellular Access Speed, Distance, and Bandwidth Channel Communications MIMO /MU-MIMO /Unidirectional / Omnidirectional Site Surveys   Communication Between Wireless Devices Setting Wireless Connection Eliminating Wireless Problems Factors Affecting Wireless Trouble Signals AP Coverage What's Next? Chapter 8: Cloud Computing and Virtualization cloud software concepts as a service platform as a service infrastructure as a service service for other services Private cloud public cloud hybrid methods connect to cloud security effects and considerations Relationship between virtualization and storage areas of network virtualization of the network storage-area network What's next? Chapter 9: Network Operations Documentation Wiring Management and Port Location Physical and Logical Network Charts Basic Policies, Procedures, Configurations and Rules marking business continuity and emergency recovery back up best practices using continuous power sources Alternatives to UPS Hot, Warm, and Cold Sites High Availability and Recovery Concept Monitoring Network Performance Common Reasons for Monitoring Networks SNMP Monitors Package Sniffers Bandwidth Testing Port Scanners Vulnerability Scanners Vulnerability Network, Load, and Stress-Testing Event Tracking Logs Remote Access Remote Access to VPNs site files to site and customer to site https/management URL due to-Band Office Chapter 10: Network Security Essential and Multifactor Authentication Secured Vs. Unprotected Protocols Supplemental Device Reupulent Authentication and Access Control Mandatory Access Control Discretionary Access Control Control based on Role Access Management RADIUS and TACACS' Kerberos Authentication Local authentication WPA2 , TKIP-RC4, and CCMP-AES Wireless Authentication and Authorization Common, Pre-Sharing, and Open Keys Common Network Attacks Denial of Service and Distributed Denial of Service Attacks Other Common Attack Vulnerabilities and Methods preventing signature control device management techniques, proactive change of native VLAN switch and port protection Demilitarized zone (perimeter) VLAN Network Segment   and Honeynets Infiltration Testing What's Next? Chapter 11: Network TroubleShooting Steps and Procedures Identify the Problem Set a Theory of Probable Cause Test Theory to Determine the Reason to Set An Action Plan to implement a solution or escalate to check the full functionality of the system document the findings, actions and results of the hardware and software distemper tools of the Crimpers wire, strippers, and Snips Ton Generator and Probes Loopback Adapter Protocol Analyzer Smith /Cable Testers TDR and OTDR Multimeter Spector Package Sniffers Port Scanner Wi-Fi Analyzer Speed Tester and Looking Glasses Environmental Monitor Command-Line Distemper Tools Trace Route Route Utility (tracert/traceroute) ping ARP Netstat Command ipconfig ifconfig nslookup dig tcpdump team route utility nmap Eliminating problems of common network problems Common problems to be aware of hardware failure What's next? 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