Acronyms

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| CSMA/CD | Carrier Sense Multiple Access with Collision Detection |
| CAM | Content Addressable Memory |
| TCAM | Ternary CAM |
| ACL | Access Control List |
| ICMP | Internet Control Message Protocol |
| ASA | Cisco Adaptive Security Appliances (ASAs) |
| VPN | Virtual Private Network |
| IPS | Intrusion Prevention System |
| WAP | Wireless Access Points |
| WLC | Wireless LAN Controller |
| API | Application Program Interface |
| SDN | Software-Defined Access Network |
| AP | Access Point |
| LAP | Lightweight Access Point |
| LWAPP | Lightweight Access point Protocol |
| Cisco DNA | Digital Network Architecture |
| NAC | Network Admission Control |
| ATM | Asynchronous Transfer Mode |
| MPLS | Multiprotocol Label Switching |
| SaaS | Software as a Service |
| PaaS | Platform as a Service |
| IaaS | Infrastructure as a Service |

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| CSMA/CD | It stops computers from sending information on the same ethernet wire at the same time. |
| CAM | speeds up forwarding information base and routing table operations. |
| TCAM | Ternary content*-*addressable memory is a specialized type of high-speed memory that searches its entire contents in a single clock cycle. |
| ACL | Filesystem ACLs: (Access Control List) These work as filters, managing access to directories or files. A filesystem ACL gives the operating system instructions as to the users that are allowed to access the system, as well as the privileges they are entitled to once they are inside.  Networking ACLs: Networking ACLs manage access to a network. To do this, they provide instructions to switches and routers as to the kinds of traffic that are allowed to interface with the network. They also dictate what each user or device can do once they are inside. |
| ICMP | It is used by network devices, including routers, to send error messages and operational information indicating success or failure when communicating with another IP address. |
| ASA | is a security device that combines firewall, antivirus, intrusion prevention, and virtual private network (VPN) capabilities. It provides proactive threat defense that stops attacks before they spread through the network. |
| VPN | A VPN is created by establishing a virtual point-to-point connection through the use of tunneling protocols over existing networks. |
| IPS | identify any suspicious activity and either detect and allow (IDS) or prevent (IPS) the threat. The attempt is logged and reported to the network managers or Security Operations Center (SOC) staff. |
| WAP | Wireless Access Points. a networking device that allows wireless-capable devices to connect to a wired network. |
| WLC | Wireless LAN Controller manages access points in a wireless network. |
| API | Application Program Interface is a way for two or more computer programs or components to communicate with each other. |
| SDN | Software-Defined Access Network helps secure your organization and achieve regulatory compliance with end-to-end segmentation. Keep user, device, and application traffic separate without redesigning the network. |
| AP | Access Point a device that forms a wireless local area network (WLAN) which enables WiFi devices to connect. |
| LAP | Lightweight Access Point the name of a protocol that can control multiple Wi-Fi wireless access points at once. This can reduce the amount of time spent on configuring, monitoring or troubleshooting a large network. The system will also allow network administrators to closely analyze the network. |
| LWAPP | Lightweight Access point Protocol the name of a protocol that can control multiple Wi-Fi wireless access points at once. This can reduce the amount of time spent on configuring, monitoring or troubleshooting a large network. The system will also allow network administrators to closely analyze the network. |
| NAC | Network Admission Control is a Cisco feather that prevents hosts from accessing the network if they do not comply with organizational requirements. |
| ATM | Asynchronous Transfer Mode which provides point-to-multipoint connectivity. |
| SaaS | Software as a Service – applications that run in the cloud such as any web-based email, Microsoft 365, Google Drive, and iCloud. |
| PaaS | Platform as a Service |

PoE

Issue the “show power inline” command on Cisco switches to verify PoE

Issue the “show interfaces” command on Cisco switches to verify Noise and CRC. Collisions, and Late Collisions

Issue the “show interfaces status” for Duplex Mismatch