

LACP 802.3ad

Link aggregation control protocol

→ used to group numerous physical ports to make one high bandwidth path. This will increase bandwidth and therefore throughput. LACP can also provide redundancy and load balancing.

BPDV (bridge protocol data) unit is used by STP (802.3d) to prevent bridge loop.

Agreements

- NDA - Non disclosure agreements
- AVP - Acceptable use policy
 - An acceptable use policy is a set of rules applied by the owner, creator, or administrator of a network, website or service that restrict how the network, website, or system may be used and sets guidelines as to how it should use.
- MOU (memorandum of understanding) non binding agreement between two or more organizations to detail what common action they intend to take.
- SLA - service level agreement.

→ Netflow analyzers - used to perform monitoring, troubleshooting, inspection, interpretation and synthesis of network traffic flow data.

→ IP scanner - used to monitor a network IP address space in real-time and identify any devices connected to the network.

surge protector - defends against possible voltage spikes that could damage your electronics, appliances, or equipment.

Data destruction

→ Data wiping - occurs by using software tool to overwrite the data on hard drive to destroy all electronic data on a hard disk or other media. It can be reused.

→ Degaussing - demagnetizing hard drive to erase data. It cannot be reused.

→ Purging - removing sensitive data from hard drive using the device's memory electronics or an off-site source such as deguster

→ Shredding - physical destruction cannot be reused.

to perform
action integrat
traffic

Antenn

Directional - In specific direction
e.g. Yagi

Omni directional - broadcast radio frequencies in all directions creating large sphere of coverage.

patch Antenna - with a low profile that can be mounted on a surface. A patch can be omni, uni, bi.

Tools | fusion splicer to repair cable

- > multimeter | measure voltage, resistance and amperage of a cable or conduit.
- > cable tester | use to verify the electrical connection in a twisted pair or coaxial cable.
- > cable certifier | use to test continuity of a cable and verify that cable meets its specifications such as bandwidth, frequency and length.
- > spectrum analyzer | measure the magnitude of an input signal's frequ

~~LDAP~~
nslookup → is a command to look up domain name system to obtain information about host address, mail exchange, name servers, and related information

- NAC → Network Access control is an approach to computer security that attempts to unify endpoint security technology, user or system authentication, and network security enforcement. It restricts access to only those devices that are authorized and compliant with security policies. It has security patches and anti-virus/malware software. When device connects to the network it is placed into a automated testing area.
- PSK (pre-shared key) is a shared channel before it needs to be used. A pre-shared key is used to encrypt data transferring over a WEP, WPA, or WPA2.
- DMZ → Demilitarized zone is a physical or logical subnetwork that contains and exposes an organization's external facing services to an untrusted usually larger network.

✓ LDAP → light weight directory access ?
Protocol uses 389. Is an open vendor
neutral, industry standard application protocol
for accessing distributed directory information
services over IP.

✓ LDAPS → over SSL (port 636)

✓ TACACS+ → IS an AAA (Accounting,
authorization, and authentication) protocol
to provide AAA services to access routers,
network access point, and other network
devices. It is an remote authentication
protocol which allow remote access
server to communicate with an authentication
server to validate user access on the
network.

✓ Network Access Control → is a means
of ensuring end point security by ensuring
that all devices connecting to the network
conforms to a health policy such as IEEE
802.1x, MAC filtering, firewall config,
and other factors.

* ISAKMP → is used for negotiating
establishing, modification, and deletion
of SAs and selected parameters in the IPsec protocol

SNMP (ports 161 and 162)

→ simple network management protocol is used for the management and monitoring of network-connected devices in internetworks.

A trap is an asynchronous notification from the agent to the manager. A trap is sent by the agent to notify the management of significant events that are occurring in real time such as alarming conditions.

→ verbose trap may contain all the information about a given alert or event as its payload. If contains more data than granular trap.

→ granular trap → containing object identified (OID) and value for OID.

→ OID (Object Identifier) identifies a variable that can be read or set using SNMP.

→ MIB (management information base) is configuration file that is used to describe the structure of the management data of a device subsystem using hierarchical name space, containing object identifiers.