

Networking Acronyms and Terminology

This is a list of basic computer networking acronyms and terminology.
It is a first draft and I will continue to update it and add more information and terms.

- LAN- Local Area Network usually a single building or campus
- WAN- Connects lans up to global in scale (internet)
- MAN- Metro area network City Wide Network
- SAN Data storage network
- PAN Devices around a persons work area, PDA Keybord mouse.
- NIC- Network interface card
- NOS- Network operating system- windows server, linux, unix netware
- Terminator- resistive load at the end of the network cable that blocks reflection and reduces noise
- Repeater- network amplifier repeats all incoming packets as broadcast to all connections
- Bridge- connects two similar networks
- Gateway- connects two dissimilar networks
- Router- same as gateway but only for routeable protocols can also direct network traffic.
- B router- router only able to support a single protocol
- Hub- network splitter, broadcasts all incoming packets to all ports
- Passive- no active componenets splits signal to all ports, only one per segment, terminate unused ports
- Active- powered hub amplifies signal while broadcasting to all ports.
- Switch Splits network and provides and provides direction to network packets
- Node device that connects to network
- NAS Network attached storage

- Collision Detecion and Avoidance
- CSMA/CA
- Carrier Sense Multiple Access/Collision Avoidance
- Node checks network for other broadcasts before transmitting
- CSMA/CD
- Carrier Sense Multiple Access/Collision Detection
- Node broadcasts and waits for reply or time out

- Token passing
- Only the node with an empty token can broadcast
- Every node handles every token
- Time sharing ensures every node gets equal time

- MAU -Multistation Access Unit, Allows devices to attach to token ring network
- Network Administrator -Responsible for maintaining network hardware, software, and users.
- IPX- Internet Packet eXchange
- ISP-Internet Service Provider
- UNC -Universal Naming Convention
- POTS -Plain Old Telephone Service
- TCP/IP-Transmission Control Protocol/Internet Protocol
- SLIP-Serial Line Internet Protocol
- PPP-Point-to-Point Protocol
- DUN- Dial Up Network
- UTP -Unshielded Twisted Pair
- STP- Shielded Twisted Pair or Spanning Tree Protocol
- Protocol -Set of rules telling devices on network how to communicate
- Topology- Physical and logical layout of network
- VLAN- virtual local area network
- DHCP – Dynamic Host Configuration Protocol
- VPN – virtual private network
- SSL – secure sockets layer

File Operations

- | | |
|--------------|---|
| pwd | Print Name Of Current/Working Directory |
| cd | Changing The Working Directory |
| cp | Copy Files Or Directory |
| rm | Remove Files And Directory |
| ls | List Of Directory Contents |
| mkdir | Make Directory |
| cat | Concatenate Files And Print On Standard Output |
| mv | Move Files |
| chmod | Change Files Permissions |

Know Your System

- | | |
|--------------------------|---|
| uname | Print System Information |
| who | Show Who Is Logged On |
| cal | Displays Calculator |
| date | Print System Date And Time |
| df | Report File System Disk Space Usage |
| du | Estimate File Space Usage |
| ps | Displays Information Of Current Active Processes |
| kill | Allows To Kills Process |
| clear | Clear The Terminal Screen |
| cat /proc/cpuinfo | Cpuinfo Display CPU Information |
| cat /proc/meminfo | Display Memory Information |

Compression

- | | |
|-------------|--|
| tar | To Store And Extract Files From An Archive File Known As Tar File |
| gzip | Compress Or Decompress Named Files |

Network

- | | |
|-----------------|--|
| ifconfig | To Config Network Interface |
| ping | Check The Other System Are Reachable From The Host System |
| wget | Download Files From Network |
| ssh | Remote Login Program |
| ftp | Download/Upload Files From/To Remote System |
| last | Displays List Of Last Logged In User |
| telnet | Used To Communicate With Another Host Using THE Telnet Protocol |

Searching Files

- | | |
|---------------|--|
| grep | Search Files(s) For Specific Text |
| find | Search For Files In A Directory Hierarchy |
| locate | Find Files By Name |

