

OS/Network Services



• Under Unix (Linux)

- /etc/services

• Internet services list

- Mapping of port number from Internet Assigned Numbers Authority (IANA)
- Numbers < 1024 bound by root only
  - Connecting clients can trust service on those ports

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Common Services

• ftp

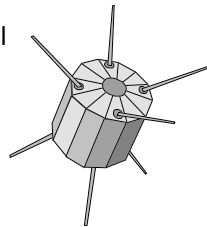
- File Transfer Protocol

• telnet

• whois

- NIC domain name

• finger




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DHCP

• Dynamic Host Configuration Protocol

• IP addresses

- Allocated on demand (e.g., client boot)
- assigned from range

• Allocation options

- Truly dynamic
- Always same IP - "static" (MAC addr?)

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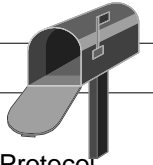
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Mail/News/Web Services



- **Mail services**
  - smtp - Simple Mail Transport Protocol
  - X400 (ISO), pop, imap
- **nntp**
  - Network News Transfer Protocol
- **irc - Internet Relay Chat**
- **http - web pages, etc.**

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Network File Services



- **nfs - network file system**
  - Mount remote file system locally
- **smb - server message block**
  - Server (SAMBA) runs on UNIX/Linux
  - Looks like NT file server
  - New versions work with NT domain controllers

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Miscellaneous Services

- **bootp - client and server**
- **gopher - old**
- **ntp - time server**
  - Master/slave servers
  - Reference - atomic clock?
- **exec - BSD rexecd**
- **snmp**
  - Simple Network Management Protocol

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