

Networking



Networking


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Quiz

- ASP
- bridge
- extranet
- firewall
- gateway
- hub
- Internet
- intranet
- ISP
- packet
- router
- sneakernet
- switch
- VPN


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Types

- Broadcast
- Point-to-point
- Switched

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LAN

- Ethernet
- Segment
- Duplex
- Hub
- Switch
- Router

- WiFi

- WAN
- MAN

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Firewall

- Computer with several network cards
- "A small box with two ports"
- Software

- IP-Cop
- ...


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Protocols


- IP
- TCP
- UDP
- PPP
- Xremote / LBX

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Host address

- Classes
- Static/ dynamic IP
- Subnet
- CIDR

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Name resolving

- /etc/hosts
- IP, FQDN, nick
- NIS
- DNS

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IPv6


- Larger address space
- Traffic separation

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Toolbox

- hostname
- finger
- sending mail
- mailing lists
- (Trusted hosts)
- telnet !!! Change port.
- ftp
- ping
- traceroute
- host
- dig
- whois


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Distributed computing

- Fileservers
- ...
- PTP


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Mail



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Basics

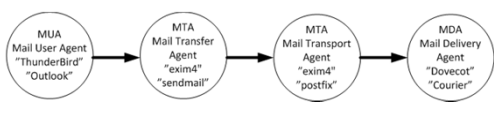
- MUA
- MTA
- MDA

• Could be avoided. Ask yourself if it is needed.

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MUA-MTA-MDA



```
graph LR; MUA["MUA  
Mail User Agent  
\"ThunderBird\"  
\"Outlook\""] --> MTA1["MTA  
Mail Transfer Agent  
\"exim4\"  
\"sendmail\""]; MTA1 --> MTA2["MTA  
Mail Transport Agent  
\"exim4\"  
\"postfix\""]; MTA2 --> MDA["MDA  
Mail Delivery Agent  
\"Dovecot\"  
\"Courier\""]
```

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