

| Basic Networking Fundamentals | OSI Model                            | TCP/IP Command Line Tools (Windows)          | Wireless Networking                                   |
|-------------------------------|--------------------------------------|----------------------------------------------|-------------------------------------------------------|
| Types of Networks             | Communication Standards              | IPCONFIG / ARP / ROUTE                       | Benefits of Wireless Networking                       |
| Connections                   |                                      | PING / TRACERT / PATHPING                    | Wireless Access Point                                 |
| Protocols                     | <b>TCP/IP Communication</b>          | NETSTAT / NBSTAT / NSLOOKUP                  | Components of Wireless Access Point                   |
| IP Addressing                 | TCP/IP Protocol Suite                | TELNET / FTP / NETSH                         | Access Point Placement                                |
|                               | TCP/IP (DARPA) Model                 |                                              | Wireless Networking Standards                         |
|                               | Transport Layer Protocols - TCP      |                                              | Wireless Network Securing                             |
| <b>Wired Network Media</b>    | Three-Way Handshake                  |                                              |                                                       |
| Twisted Pair                  | Internet Layer Protocols             | <b>Name Resolution</b>                       | <b>Network Security</b>                               |
| Coaxial                       | Communication Types                  | Host Names                                   | Firewalls                                             |
| Fiber Optic                   | Access Methods                       | NetBIOS Names                                | Security Devices                                      |
| Plenum-Grade Cables           | CSMA/CD                              | Name to IP Address Resolution                | Network Access Security                               |
| Connectors                    |                                      | Name Resolution Process                      | User Authentication                                   |
| Wire Standards                | <b>IP Addressing</b>                 |                                              | Device Security                                       |
| Ethernet                      | IP Addressing Scheme Planning        | <b>DHCP</b>                                  | Common Security Threats                               |
| Standard Ethernet             | IP Addressing Rules                  | DORA (Discover, Offer, Request, Acknowledge) |                                                       |
| Fast Ethernet                 | Classful IP Addressing               | DHCP in a Routed Network                     |                                                       |
| Gigabit Ethernet              | Private IP Addressing                |                                              | <b>IPv6 Fundamentals</b>                              |
|                               | Public IP Addressing                 | <b>Routing</b>                               | Disadvantage of IPv4                                  |
| <b>Network Topologies</b>     | NAT (Network Address Translation)    | Routing Tables                               | IPv6 Solutions                                        |
| Physical Network Topologies   | Binary IP Addresses                  | Static Routing                               | Types of IPv6 Addresses (Unicast, Multicast, Anycast) |
| Bus Topology                  | Inter-Networking                     | Dynamic Routing                              | IPv4/IPv6 Compatibility                               |
| Star Topology                 | Default Gateway                      | Routing Protocols                            |                                                       |
| Ring Topology                 | Subnetting                           | Convergence                                  |                                                       |
| Mesh Topology                 | Classless Interdomain Routing (CIDR) | <b>Remote Desktop Services (RDS)</b>         |                                                       |
| Hybrid Topology               |                                      | RDS Role Services                            |                                                       |
| WAN Technologies              |                                      |                                              |                                                       |
| VPNs                          |                                      |                                              |                                                       |
| VLANs                         |                                      |                                              |                                                       |



By aaAldinaaa

Not published yet.  
Last updated 8th May, 2016.  
Page 1 of 1.

Sponsored by **CrosswordCheats.com**  
Learn to solve cryptic crosswords!  
<http://crosswordcheats.com>

[cheatography.com/aaaldinaaa/](http://cheatography.com/aaaldinaaa/)