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| TCP/IP – Main protocol for modern network  -Providing IP addressing scheme  -Route Network  -Deliver Packet  -Connection-oriented protocol  -Creating handshake (3-way handshake)   * SYN * FIN * ACK (acknowledge) | UDP – lightweight, not using 3 way handshake |
| OSI MODEL  7. Physical Layer  6. Data link  5. Network Layer  4. Transport Layer  3. Session Layer  2. Presentation Layer  1. Application Layer | |
| IP Address  192.169.1.1/25  Why the range 0-255  NAT – Network Address Translation  Subnetting  IPv4 (32 bits)  IPv6 (128 bits)   * Static - Assigned network IP ADDRESS * DHCP - | **PORT**   * 16 bit binary number port |
| ICMP – Internet control Message Protocol – is the housekeeping protocol of the internet.   * Ping command * Traceroute (traceroute -I erertech.com) |  |
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