Willian Frado 04/28/2025 Implementing Network TCP/IP model My MANA {pw/load 60 Application 4 Transportations TCP segment UDP datagram connection (Reliable) Flow Courted, oriented hand shake sequencing 5 4 3 2 1 -Ports HTTP80 FTP 21 DHCP Telnet 23
HTTPS 443 SMTP 28 DNS 53
IMAP POP 110 SSH 22 Port# 1024 - 99151 vser, Registered
49152 6535 Dynamic & Private ports
0-1023 system, well-known tube Ports - power certi Sundan > Session, Connection, Sockets & ephe meral ports. Socket is created u/ IP+++ Port++.

It address + Port number = socket. TCP - transmission Control Protocol without TCP the webspage will be out of orderas SYN Ack

SYN Ack

Ack

William Prado 2606 186140 UDP - User datagram protocol UDP is faster ruan tot TCP. SUNNY 3 Categories port numbers. Port # 16 bit valves. 1 Well-Known Port # 0-1003 2. Registered Port# 1024-49,151 3. Dynamic/Private Port# 49152-65535 14 well-known port # we need to know. 20 TCP - to ftp-data snmp= 000 [6] 21 TCP - SSH Ldap - 389 23 TCP - telnet Smb - 445 25 TCP - SM+P MySqL - 3306 sip - 5060 S3 TCP/UDP - DNS 67 TCP - 600th h.323-1720 DHCP Server DHCP Client 69 TCP-TFTP 80 TCP-HTTP 110 TCP-POP3 123 VDP-NTP source part - vap part of sending host Destination port - UDP port of destination host Mexage longth - Size of the UV packet Checksonn-Euswies validity of the pucket. 143 TCP - IMAPH 443 TCP - HTTPS Seg# ACK# SYN# SYN-ACK SYN seq# 9002 5002

William Prado DM/28/2025 UHCP Server > Netstat > netstat -n Display which program is used to make the connection. > netstat - b > netstat-f. > netstat -bf DHCP port#; > netstat -an 67-68. Netstat - t N L D a b f<sup>fgor</sup>

m s s l f

e e e e

h s m

Mark SHCP - assigns a competer an IP address, subnet,

defaut gateway, DNS server. OHCP Settings to "GODE"

Start (0.0.0.1 ) " Range-lease -> djust lease time.

End. 10.0.0.100 80 pm reservation = MAC euclusion 192.168.1.0/24 Find MAC address > ip config /all 192.168.1.0 192.168.3.0 Switch 5172.168, 2.0 TCP handshake Syn Ack Ack Broad cast DO NOT travel by network! ip helper enable. Cisco. youtube DHCP relay Agent. > ipconfig (allempartments /all

Willian Prado 04-28-2025 relayagent = 1 IPV6 = SLAAC IPV6 · HOW DHCP V6 works. APIPA-Note: remember port A. Intro Duta bases, on the side. 6,7,8 - quizzes, review x Lab by sunday... ox Sivdo nano letc/notwork/interfaces svdo systemati restart netwo