Taylor Und 1.1 Menores Notrolk + Stay Guide 9/12/16 Connectory better personal dances usually Blutes the PAN: local Are Notrolk, Peries contad by a justy WLAW (widess LAN) LAN: Controller of Local Are Nohopky Wall of a wile Are Network. WAN: Consider of Ming WAN In a Metryolitan orta. MMV: UNK Setulla too or hope organizations. Internehurk: Internet: Luga public network of information accessible by all uses. Intravel: Information accessible within organization over for affect peralle Private Arailesily Only Extent: Allowed Ward USUS can acress organizations intention Nitro/Ks are and of of controls (roles/hosts), transmission medium (cables etc), retrain intrees, and propolis Netwes we wish cost becase of dilits to share reserves with an assairation. TITE BS: Topolog we all notes linked by a style able soiles connection 60 psy: Where all compators linked by a ring while all complets connected to one mother in a ding This certable connected nemack where data sont to party, then to make I Mesh: Redundant petrok where 50 notes need 50 net adjust. In will not so Noch is not presteal, but wirders is very practical as each dances parks (5) 13 851 Moral (1983): Stand Sizes returned Communications implementation. RICALITATION & Non-proprietary Isaks, Peckages sent and received travel from top to Tybottom, Har bottom to sop for senders and receives proceeding Dalatint Di All Pouple Seem Bo Need lake Docessing Botten 2 layers lader kink, Physical an physical bodiers, other 5 we soffed buged, Or: Top 3 are appertunition largers (ATP/PNS), Not Zat Tangert lagers, and bottom ? 416 orchstacture layers.

FLEP Straying 13 OSI CONTE. May frances protocols must and use OSI model. 7. Applications Ex. HTTP, GP, TFIP, and Salling Enables corners. Sometiment states 6. Presenter: Explax, energyton, conpiession, sse Energyton and date fromt 5. Sission Ex. Session IP. 4. Transport Fr. Segments files into peckets. TCP and VDP run here, Ports dosynder 3. Whork: Ex. Parking IP Address assigned, Pockets are created when fager IP of ages I all link: Ex. mac address Erec make alloss identifies network adopters Proposed on result.

1. Physical Ex. CAT 6 RJ45. Hubs. Mac ablager of Port #15 are assigned to series like Mail and web series so defines into the format layer know where to reduce to person of the OSI layer, SINUS/SOURCE RECIENT DES Knotten [Estates] sexuals GAPSTINDP -> PONTSPA GIBATE Prekat Profets: MACIMACIATADATA Bits: 010101010101 Partie Emple and OST node! TCP/PP and OSI model Application HAD be cated 1816 (enfetern) HTTP App Karron Patulink inchas Presentation NICS, Bridges, ASCIT transport Truckpaper SUSSION Sysstan ID (Whork Informer Physical Excluses Tons 2017 Port #'s (Veterak Totales) Parta Link Netrolkunse HUS & septembers, Route F Notwork includes (Haydons E) & Physical Pute Linke Si 1 Sultah Roctors, 1 Physical WAP

Network + Study bride Taylor Und 9/13/16 [14] Network Signaling [Part of Physical Layer I of OSI Model] Sandrate is . Digital and Analog Signals are types of signals. unders of modeling = Digital Stand has 1= on and Dorngative = off. per second i bully. Analog stope is use modulations through Requery and emplitude to howard und as bitath, duta. · Moderns modulate and demodulate signals LIEBRELESS . Munchester encoding USES rolus, pseul transisten hystens: use OFDM - Brandbund systems (use endos sygnals, only plan of broughth) unidectional, (Orthugoral) so 2 cases needed for up/dan Fragency distin Fish aptic cables also use mitiglaring to split up Regionary multiplaxing. -Basebard systems (USD distal signals, use where Landwilth), bi wachand, so only I will needed for up/dawn kgr. Line Gale: Peters to 200: Signal always hits 200 after Ment or men. Non Rehig to 200: Signal stays at max or min until a flep where it mass directly marcheter: Instead of musing max prin counts, this can't the number of flips. (15) Netwerk Potocols Key topies: · Protocol suite v. protocol · TCP and UDP differences, · TMAPY, POP 3517p · How 2065 SSH JAPPER from telact? Hundres ATTPS JAPAN From WITPS ATP: time sure How 2065 30 differ moin will, and protocol suffer. Most com Geross actions broup of intocols used together are called protocol suffer. TipiEP spreading TCP (harm's stan control protocol) is connection ortented. Needs ark prickets UDP (Ser detryren protocol) connectualess, girch bec no ack my sied 5): SSLORITES AHTTP (hypertext Tangler Protocol): Patocol that hadles up regests FTP use UPP FTP(FILTINGER Probable) touspers files beheen computers (sees TCP) SCP and SFTP both use 55h to securely transfer files across alterests

SMTP fords malls to other addresses, POP3 Junious trails to other. IMAP shows corner.

DHCP (Expanse host config protocol): automates addressing

DNS; uses restal number to mask ip addressing

Wetherk + Shoty Gible.

To conts. SNMP (sixte network management protocol allows for alets on status of network relationstated and incourse Unused by madern admins SH: secully access of manage remote downers ICMP: used to verify host actually, IGMP! Establishes muticost storp memberships on retrolk, Common Notick Senter, Fey Senices: Wes, FTP, PNS, DHCP, Directory Sentre S, SSH, MTH, SANSALFS Sener: Compter that provides service or a specific service for network on congetel. Aquela web sener used by 50-60% and IIS: 2 050 + by 30-35% FTP severs allow file transfers remotely. Hes used due to security DNS servers grapy donein name and returns IP address OHCP automatically configres IP addasses on all network soyetes. My AD, Mail prestury, & Open UPAP are all directory services that hip range No ves. SH dows deverstarted to ever complet asif sithing so front of st. MTA/MDA are rail services that allow May tensor Azents to send and rest enails SMB/CIFS provide short resources to Athrox Savices renotely. Exploring Metral Sontas, SAST allows way song for serves on Unix serves. On hindows se and to use off. Simply type for then open, then losin haxcounts you (1.6) Numberry Systems. Octol uses base 8. Declared or base 10 is most familton, Birry to used by complets For the charge. Max # of possibilities is 2" with a being number of sits. need 4 bits, Hexadecimal or buse 16 includes 0-9 and A-F 512 0-9:510 · Corverting Oce to Bin. Use consisten stid for 110/0/ 32/16/8/4/2/11