| - Arrest PROMO | |
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| OCCUPANTAL DESCRIPTION OF THE PARTY OF THE P | Ì |
| THE CONCENTRAL OF THE PARTY OF | |

<u> DECENTION DE LA COMPANION DE</u>

Ch. D INTRO

- Field Tech = repairs computers on site "in the field "good people skills"

 remote Tech = remotes into a system to perform repairs. "good people skills"
 - Bench teeh = preforms warranty type services at a central facility.

Ch 1. INTRO TO THE PC

- COMPUTER SYSTEM = HW & SW COMPONENTS
- "FORM FACTOR" = SIZE & SHAPE = MBOARDS, CASES, HARD PROVE, PWR SUP
- HW = PHYSICAL (YOU CAN TOUCH IT)
 - Sw = 1's + 0's = DATA.
 - PWR SUP = AL TO DC , 12 3.3 & 5V (- or + respectively)

PUR CONNECTORS = MOLEX = hard drives optical drives

BERG = floppy drive power

BLUE BLUE -12 V

YARN YELLOW + 12 V

WILL WHITE -5 V

ROT RED +5 V

OFF BOARDS ORANGE 3.3V

OV

BLACK

SATA = harddrives/optical drives

20/24 pin W/ 4 or 8 pin AUX = MBourd PWR

6/8 Pin PCle = for other internal components

P8 + P9 = older unknyed nolonger used

P IE EIR

por sup should have more than you need 25% RULE OF THUMB

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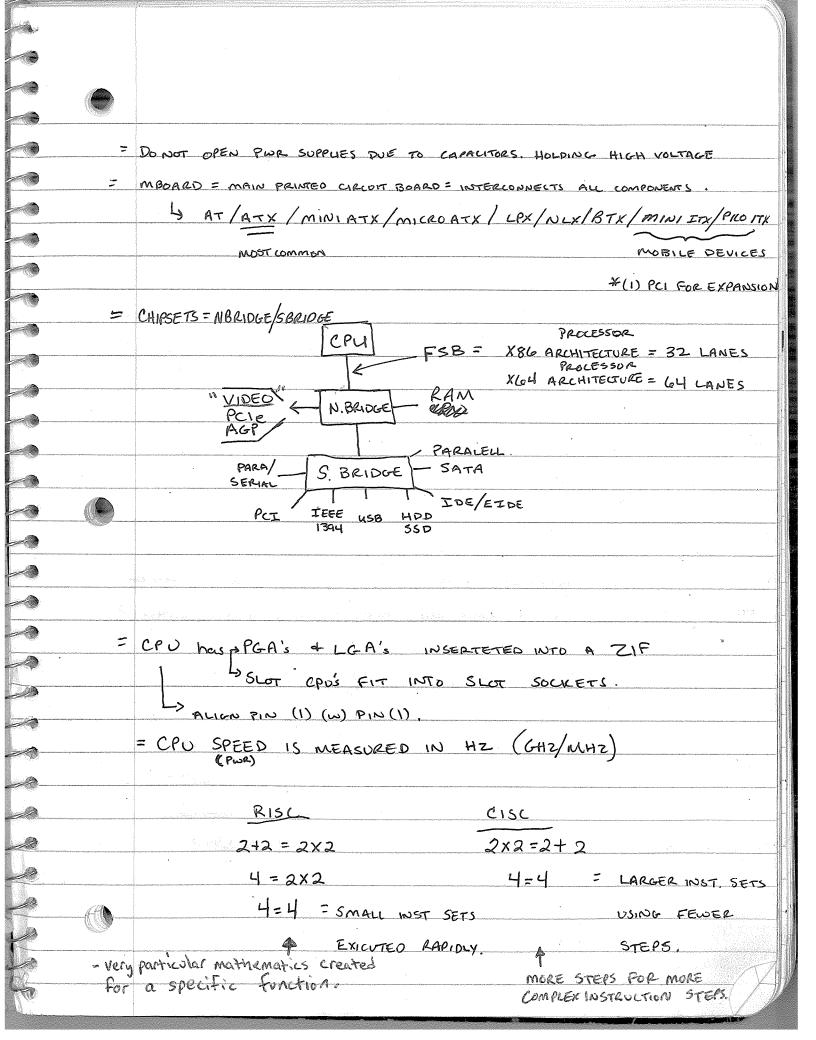
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P IE EIR

por sup should have more than you need 25% RULE OF THUMB



| ~ | | |
|----------|--|--|
| | | |
| | | HYPERTHREADING = MAKES PROCESSOR SEEM DOUBLE TO COMPUTER. |
| | | HYPER TRANSPORT = SPEEDS UP DATA BETWEEN NBRIDGE & CPU |
| | | L) BASICALLY INCREASES THE SPEED LIMIT ON THE 32 OR 64 LANE FSB. |
| | | |
| | = | OVERCLOCKING = MAKING CPU RUN FASTER THAN THE MANUFACTURER |
| | (MORE PW NOREA | R REQ, MORE HEAT) DESIGNED IT. (CAN CAN DEVIVER) SED WEAR/TEAR) DESIGNED IT. |
| | = | THROTTLING = MAKING CPU RUN SLOWER THAN ORIGINALLY |
| | LESS PU INCREAS | R REW, LESS HEAT) DESIGNED. (SOMETIMES USED IN LAPTORS) |
| | | |
| | _ | GPU = GRAPHICS PROCESSING UNIT = VIDEO CARD |
| | 3 | MMX = CREATED TO INPROVE MULTIMEDIA// REPLACED BY SSE = STREAMING |
| 1 | | SINGLE INSTRUCTION SET EXTENTIONS. |
| -0 | | |
| 4) | | FANS = PROVIDE COOLING FOR CASE PROCESSOR VIDEO CARDS |
| | = | WATER (LIQUID COOLED) SYSTEMS ARE MORE EFFICIENT® COOLING |
| * | | |
| 式 L | | ROM = BIOS IS STORED ON ROM (NONVOLITHE) |
| | | |
| | | - ROM = WRITTEN @ FACTORY / NO CHANGE |
| | | -PROM = YOU PROGRAM IT / NO CHANGE |
| | | - EPROM: YOU PROGRAM IT / CAN ERASE WY SPECIAL UN LIGHT |
| | | - EEPROM: YOU PROGRAM IT/ YOU CAN ERASE & REWRITE MANY TIMES. |
| | | |
| 12 | - Am | |
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| 4 | | |
| | | RAM = RANDOM ACCESS MEMORY = (VOLITILE) |
| | | WITH RANDOM RECESS MENDICY (VOLITIES) |
| | | D20.00 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 |
| | | DRAM = MAIN MEM = CONSTANT REFRESH. |
| | | SRAM = CACHE MEM = DOESN'T HAVE TO BE REFRESHED AS OFTEN |
| | | MORE EXPENSIVE THAN DRAM & MUCH FASTER |
| | | SDRAM - DRAM THAT IS IN SYNC W/ MEM BUS. |
| | | DDR SDRAM= - + XMTS 2CE PER CYCLE |
| | | DDR2 SDRAM = - + DECREASES NOISE + CROSSTACK. |
| * | | DDR3 SDRAM = - + XMTS 4 TIMES PER CYCLE 4 PRODUCES LESS HEAT THAN DORS |
| | | RDRAM = RAMBUS = RIMM = VERY HIGH RATES OF SPEED/MUST BE INSTALLED |
| | | IN PAIRS/ 800 MHZ/ NOT COMMONLY USED, (HIGH END SERVERS) |
| | | (must be installed in pairs is not the same as dual channel configuration) DDR |
| | **; | * NO DOR TECHNOLOGIES ARE BACKWARD FORWARD COMPATIBLE. |
| | 4 | |
| | a | MEMORY MODULES |
| | 4 | |
| | A = | DIP = AR DUAL INLINE PACKAGE |
| | | SIMM = TI TI TI = 30 OR 70 PIN CONFIGURATIONS. |
| | | DIMM = DIPS ON BOTH SIDES OF A MEMORY MOD * 168/184/240 PIN |
| | | RIMM = 72/100 PIN FOR 32 BIT / 144/200/204 PIN FOR 64 BIT |
| 7 | The second secon | SODIMM = LAPTOP RAM SAME PINOUT |
| * | | JUDIMIN - LAPTOP KAM JAME PINOUT |
| -0.0 | | |
| | | |
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| | | | | | | | , |
| | | | | | | | |
| | | | RAM | CONT. | | | |
| | | | | | | | |
| | | | PCV | DO | SDRAM | PC-100 | 100MHz |
| 2-3 | | | PC 1 | | SDRAM | | |
| | Basica | lly, of the | | | , | 2 | |
| | 1 . | + X8 OR +2 OR | DDR 3 | | PC 2700 | Z - g | |
| | | | | e e e e e e e e e e e e e e e e e e e | | | 166 MHz |
| 40 | W. | R - 8 the | DDR 4 | / × 8 | Pc 3200 | | 200 MHz |
| 1/3 | - | ers provided | · · | x y | | | |
| | they' | Il get the | · graph | F- X9 | · · · · · · · · · · · · · · · · · · · | | |
| | \ an | swer. | DORZ | 667 | PC2 530 | | 667 MHZ |
| | | | DOR 2 | 800 | PC2 640 | | 400 mHz |
| | , and the second | | | | | <u></u> | |
| | , ((1) | | | [| SAME | | |
| 10 | | | DOR 3 | 1333 | PC3 1060 |)O | 1333 MHz |
| | | | DORZ | 1600 | PC3 1280 | Ď0 | 1600 MHz |
| | | | DOR3 | 1866 | PC3 149 | 00 | 1867HZ |
| | | • 4 | ODR3 | 2133 | PC3 170 | 00 | 2133 MHZ |
| | | | | X8 | | | |
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| | | , Alexander and | | At a Red | 1988 - 1884 - 1886 - 1886 - 1886 - 1886 - 1886 - 1886 - 1886 - 1886 - 1886 - 1886 - 1886 - 1886 - 1886 - 1886 | e to A LEA | |

* CNR = COMMUNICATIONS & NETWORK RISER (OR RISER CARD) - USED FOR NETWORKING/ AUDIO EXPANSION CARDS MAINLY RISERS WERE USED IN SLIM LINE PC'S PCIX = 32 bit bus w/ higher bandwidth PCI EXPANSION SLOTS = PCIe Mini PCI = 32bit, Type 1, 11, 111 AGP STORAGE ORIVES = - FLOPPY DR: 720KB OR 1.44MB -HOD & SSD'S TAPE DRIVES = BACKING UP LARGE AMTS OF DATA. - CD = 700 MB - DVD = 4.76B OR 8.56B ON DUAL LAYER -BD = 256B OR 506B ON - EXTERNAL FLASH. DATA CABLES = (EIDE - 512MB HOD & LARGER) - IDE/EIDE = PATA = 40 OR 80 CONDUCTOR = 40 PIN = JUMPERS - SATA = 7 P.N - PS2 = Keyboard/Mouse. - eSATA = external SATA K 320 MBS -SCS1 = 7 OR 15 DEVICES / MUST BE TERMINATED /NARROW LUIDE / ALEY - FLOPPY DR PATA= 34 PIN W/a twist (DB9/DB25) - Serial - SLOW - Single bit of data a a time 50ft - USB = 127 devices = 1.1-110e12 Mbps = 2.0-480 Mbps = 3.0-56bps (100A) 3.26 - IEEE 13940 = 63 devices = IEEE 1394a = 400 Mbps // b = 800 Mbps // c= depending on media - PARALELL = IEEE 1284 = 15 At = PRINTERS (36 PM CENTRONIX)

| | - <u>F</u> | ITPC = HOME THEATER PC | | CAM= | COMPUTER AIDEU COMPUTER AIDED N as CA <u>x</u> | PESICN DRAFTING MANNEACTURING |
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| | | YOU CAN PURCHASE A | | / | | (02) |
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| | | | Tana | RORL | TSTRIPT | |
| | • | STRIPPING MIRRORING | STRIP | <u> Б</u> 5ТР. | MAROR MIRROR | STRIPPING WPARITY |
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| | | RAID 6 | RAI | 03 | FAID 4 | |
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| Í. | | W/ DOUBLE | BYTE L STRIP | | Block LEV | T I |
| f) | | PARITY 9NNY (2) | V/delia | ated | STRIPPING delicated | |
| | | ORPVES CAN BE LOST. | Parity | · | pan-ty | |
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| 18 | | EXTERNAL PORTS | | | ANALOG | " |
| - | | "DIGITAL" | | = D: | SPLAY PORT = 20 | OPINS ANDO VIDED |
| A) | = | DVI = DIGITAL VISUAL IM | EKFACE | = RC | A Z ANALOG GR | VIDED |
| A | | DVII = DIGITAL + ANA | 100 | | ROJOHURAES O | · · |
| _a | Territorio de la constancia de la consta | DVID = DIGITAL ONLY | | = Co. | MADSITE = ANALOG VIDEO = 4 PIN | AUDIO/VINEO |
| | | DVI A= ANALOG ONLY | | 1 | | |
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| | | HOMI = HIGH DEF DIG | -/ANALOG | | PONENT RGB = AN | 41.06 |
| | | | | = VG1 | 4 = ANALOG | |
| and the first control of the second section of the section of the second section of the | | | | | <u> </u> | |
| | saad V | · | | | | |

INPUT DEVICES KVM SWITCH OUTPUT DEVICES. LCD = Uses inverter (DC to AC) to PWR BACKLIGHT LED = USES DL BACKLICHS OLED = USES NO BACKUCHT (VERY EXPENSIVE) PLASMA = USES MOST PWR / CREATES MOST HEAT DLP = PROJECTORS (DIGITAL LICHT PROCESSING) DISPLAYS - PIXEL = DOTS ON YOUR SCREEN. - DUT PITCH = HOW MUCH SPACE IS IN BETWEEN EACH PIXEL. CONTRAST RATIO - difference in intensity between light. Refresh rate = how often an image is redrawn. - interlace/non interlace = ways an image is fed to screen. = ASPECT RATIO = 4:3 = FOR EVERY 4 inches across = 3 inches high. NATIVE RESOLUTION = what the screen was designed for. = VRM= voltage regulator module = integrated on MBoard to ensure correct V.

| 3 | |
|----------|---|
| | |
| | CPU SOCKETS |
| | ARCHITECTURE SOCKOT EXAMPLES MANGRACTURER |
| | LGA = 775 = PENTIUM 1155 CELERON LITE |
| | 1156 CORE: INTEL |
| | 1366 Xeon |
| | LGA = F=AMD GALLED |
| | ARCHITECTURE SOCKET EXAMPLES) MANUFACTURE |
| | PGA 940 Athlon & AMD |
| | AMX Phenom) |
| | FM1 Sempron |
| | |
| | |
| | |
| | Thick Client = standard desktop computer |
| | Thin Client = designed to pull info/resources from server. |
| | 111-000/ |
| | CAX = CAD/CAM = SW often requires complex of robust HW, |
| | EX MAX CPU CORES, RAM, VIDEO CAPABILITIES. |
| 0.8 | |
| 2-3 | VIRTUALIZATION |
| | |
| <u> </u> | VDI = VIRTUAL DESXTOP INFRASTRUCTURE (SHARES YOUR RAN) (COU, MBOARD EXC.) |
| | VIRTUALIZATION = MANY COMPUTERS ON YOUR COMPUTER (COU, MEDARD etc.) |
| | VIRTUALIZATION SW = VMWARE, HYPER V, VIRTUAL BOX |
| Le . | |
| Le Ho- | HTPC = HOME THEATER PC |
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Ch. 2 SAFETY

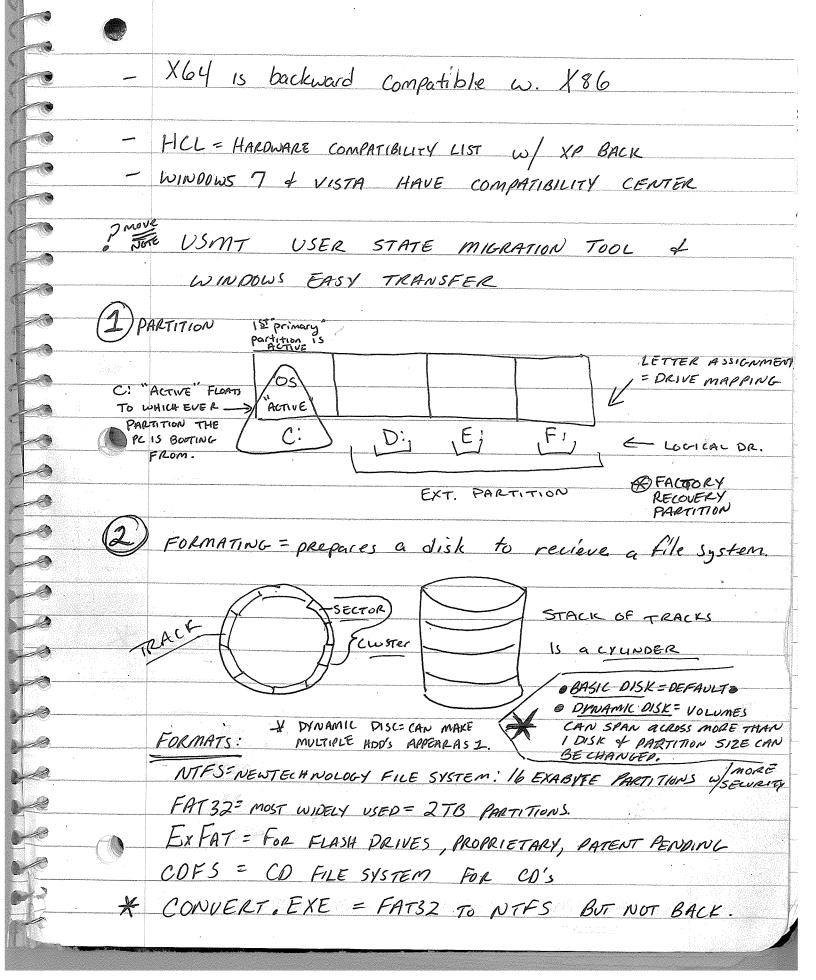
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| | - | and the second s | a mark and company and professional forms a considerable and commissional design and prompt alternatively on the first state of | P-POLL |
| | FIRE EXTINGUISHER = CLA | ss C for elect | LICAL | A-AIM 5-SQUEEZ |
| | | | | S-SWEEP |
| | ESD - E. E O | | | (SC-2) 444-16 - 2044-1 |
| | ESD = ELECTROSTATIC DISCH | | You Feel it | ESD MATS, BAGS |
| | Thumility = JESD = Twaterdamage | | V it horts | |
| • | heat = Vhumilito = 1 ESD = Por | erheat 50V c | ian pamage Pc | components. |
| | | | ent floring to the foreign control of the control o | notors |
| Wasan and a glassical discount for year | EMI = ELECTROMAGNETIC | INTERFERENCE = | PWR LINES, | Face Place in Control |
| | | | | • |
| _ | 0F1 = 0000 5000 | | | |
| | RFI = RADIO FRED INTERI | TRENCE. = FRE | RUENCY TOO | CLOSE TOGETHER |
| | | | | |
| _ | BLACKOUT = COMPLETE | LOSS OF AC. | . • | |
| ^ . | | | | |
| _ | BROWNOUT - REDUCED | AC . | | |
| - | NOISE = INTERFERENCE | E | | |
| liggeria (• | SPIKE - SUDDEN INCREA | SE THAT EXCENT | 1650 m/60 m | . 1.05 / |
| | DRAMATIC | SE I HALL EVICEDS | = NORTH | C LINE COAD |
| _ | PWR SURGE = INCREASE | ABOVE NORMA | L LINE LOAI | |
| 2003 | | | · · | ¥ · '″ |
| _ | SURGE SUPRESSOR | UPS | | \$ <i>₽</i> ≈\$ <i>₽™®≈</i> |
| | The state of the s | <i>U</i> 1 - | and the supply to your last the supply to th | 3 b 3 / - 0 / - |
| | UPS | AC FRATTI | -R | Land PC |
| , , <u>, , , , , , , , , , , , , , , , , </u> | SPS | | AC | BATT |
| . *** | CRITICE , | MOLÈ RELIABLE. | ٤ | BUITCH DEPENDANT. |
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| w | HAZMAT/MSDS/C | SHA/STATE | & LOCAL | GUIDELINES. |
| | | even | base has | regulations |
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| | firefr - Sazania | · | | |
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RECYCLE OLD LAPTOP BATTERIES AS IS, DO NOT TRY TO DISCHARGE * CAPACITORS CRT MONITORS PWR SUPS DANGER HIGH VOLTAGE PRINTERS TOOLS * PUNCHDOWN TOOL / MULTIMETER / LOOPBACK ADAPTR TOWER PROBE / EXTERNAL HARD DRIVE ENCLOSURE / CABLE TESTER / PWR SUP TESTER. New > DISKPART = creates or deletes partitions in XP FWD ... of by fdisk = creates or deletes partitions ... NOT ON XP, VISTA OR 7. - DISK MANAGEMENT = CREATES/DELETES/INITIALIZES/ DISK, format = CLI and to format. SCANDISK / ANTALMONSK CHKDISK = (SCAN DISK OLD) CHECKS DISK INTEGRITY / DISK SURFACE. PEFRAG = MAKES NON CONTIGUOUS FILES CONTIGUOUS. - DISK CLEANUP = SEARCHES FOR FILES THAT CAN BE DELETED TO FREE UP HOD SPACE ... Ex... TEMPFILES/CACHE etc... SYSTEM FILE CHECKER = SFC (SFC SCANNOW) SCANS "CRITICAL OS FILES" & REPLACES IF NEWESSARY, WINDOWS ACTION CENTER = WIN 7 = CHECKS IF THE ANTIVIRUS / SPYWARE / FIREWARL ARE ON, ALSO ENSURES AUTO UPDATES ARE INSTALLED AUTO MATICALLY FOR THE OS. > Chkdsk If Ic Ix Dr Watson = debugs

HW confic DATA is saved to a memory chip called a complementary Metal Quide Semiconductor (CMOS) - protection configs are maintained by cmos bett of Batt dies, replace it of reconfig the BIOS. Ch. 3. * New computers and so use nonvolitile chips + cmos Batt only maintains date + time Signed drivers = tested by microsoft, EJECT A CD W/ NO PWR. (CUSE HOLE IN OPTICAL DR.) of a paper clip ASSEMBLING A DESKTOP SELECT COMPONENTS - RESEARCH - FORMFACTORS/COMPATIBILITY INSTALL THE MBOARD = (STANDOFFS) - INSTALL CPU (SOMETIMES EASIER PRIOR TO INSTALLING MISOARD (ESD)) THERMAL COMPOUND / HEAT SINK / FAN ASSEMBLY. INSTALL PUR SUP (USE ALL SCREWS) - INSTALL DRIVES (JUMPERS / SCSI ID) - INSTALL EXPANSION CARDS (PCI 6/8pin) - INSTALL RAM (INSTALL ORDER / Skeed must be = to or greater than what INSTALL DATA CABLES PWR CABLES - INSTALL FANS # CHECK BEHIND YOURSELF = PWR & DATA TO EVERYTHING - CLOSE CASE - PWR ON, LISTEN FOR POST BEEP. -> INSENT all periferal cables, RJ 45, PS2, etc... * MBOARD VO CONNECTOR PLATE (Students will see on cert) 54DE-3.2.1.2 pic#2 food to 3.3.1.1

| | Ch. 4 TROUBLESHOUTING. |
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| | |
| To the second se | I DENTIFY THE PROBLEM |
| ES7. | EAT (2) ESTABLISH THEORY OF PROB CAUSES |
| TEST | T-BONES (3) TEST THE THEORY |
| EXAMS | EVERY (1) EST. PLAN / IMPLEMENT SOLUTION |
| VICE | VALENTINES (5) VERIFY |
| DRINKING | |
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| era murranja menganan penganan penganan penganan penganan penganan penganan penganan penganan penganan pengana | Track manage |
| A Seminaria de la compansión de la compa | TASK MANAGER WILL SHOW YOU WHO IS LOGGED |
| and the second s | ON TO A COMPUTER UNDER THE "USERS" TAB. |
| | · · |
| | |
| | POST = POWER ON SELF TEST = CHECKS HW |
| | EMITTS PATTERN OF BEEPS FOR ERRORS DUE TO NO DISPLAY LOADED. |
| The state of the s | BIOS = BASIC INPUT OUTPUT SYSTEM = |
| | INSTRUCTION SET THAT TELLS YOUR HW WHERE OR HOW |
| | TO FIND THE OS of LOAP IT. (MBR) (ROM) |
| | Administry of the second of th |
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| | | $\Omega_1 \subset \Omega_2$ | |
| T | | Ch. 5 OS | |
| | | | |
| | | OS = CONTROL HW ACLESS, MANAGES FILEY FOLDERS, PROVIDES USER INTERFACE, | - |
| | | MANAGE APPS. | |
| | | DRIVER = SMALL PROGRAM ALLOWS OS TO COMM W/ HW. | · · |
| | | REUISTRY = INFO ABOUT APPS, USERS, HW, NETWORK SETTINGS, + FILE TYPES | _ |
| | | | |
| 200 | | CLI/GUI | |
| The state of the s | | MULTITHREADING = A PROGRAM IS BROKEN INTO SMALLER PARTS of LOADED AS NEEDED BY OS. | *** |
| and the second | | API = Application programming interface = guidelines for programmers | and Children Company (Company Company |
| | | • • | |
| | | - Open GL = crossplatform (nutiple os) MultiMedia graphics | |
| ER . | iconomica de la compania de la comp | - Direct X = Nymedia task for windows. | |
| | | - Windows API = Allows Aps From Old windows to operate in | • |
| | | - JAVA API = JAVA PROGRAMMING RULES. | - International |
| | - | | |
| | | [F8] STARTUP MODES | Port (March Control |
| | | - REAL MODE = 1 PROGRAM / I MB OF SYS MEM (DOS) | Postanderosposos (|
| | | - PROTECTED MODE = ALL PROGRAMS/ALL MEM - WILL NOT STARVE AN PROGRAMS | |
| | | VIRTUAL REAL MODE = RUNNING CLI OR DOS FROM YOUR GUI. | DECEMBER OF THE PARTY OF THE PA |
| Lo | | - COMPATIBILITY MODE = ALLOWS COMPATIBILITY W/ OLDER SW, | STREET, CONTRACTOR OF THE PARTY |
| | - | | Andrew September 1997 |
| | | VIRTUAL MEMORY = SWAP FILE = SPACE PLLOCATED ON 400 TO | Sumapagainment |
| | | IMULATE RAM. | NO CONTRACTOR OF THE PARTY OF T |
| | | | Particular and the second |
| | F | X86 X64 | appropriatelesis |
| | | 2 | Water Spinish School |
| | | 1/1/1/00-0 | Annual Control |
| | | 7 GB KHNI 128 GB RAM ENHANCED SEC FEATURES. | |
| | | DIVITATIONES. | |
| | | | |



Peak = Markes all transparent of you view deskter botton right. Snaf- resizes windows INSTALLATION REQS Jumplist = view list of & FEATURES task unique to the app. Pinned ap = pin to task bet Thombront preview WIN 7 CPU RAM HDD Features 1 68 For 32 bit JUMP LIST, PIN, SNAP, SHAKE 1 GHz +7 2 GB For 6461+ 16/20 HOMEGROUP VISTA CPU RAM 1 CHZ 41 16B UAC/AERO XΡ CPU RAM HOD FEATURES MHZ SMALL MB Range 1.5 GB Media center roaming profiles * BITLOCKER = 0 WIN 7 ULTIMATE feenterprise · Vista ULTIMATE UPGRADES 2000 XP VISTA 98 2000 XP X VISTA WINDOWS EASY TRANSFER MIGRATION)

Stake = minimize windows

| | FROM WIN 7 REPAIR: | |
|------------------------|---|---|
| | YOU CAN CHOOSE "OPEN CLI" of | |
| | INSTALLING USE: bootrec \fix mbr or fix | |
| | LOADING AN OS fixes rewn | itoc |
| | OPTIONS/ | |
| | - XP VISTA 7 | <u> </u> |
| | SETUP XP | |
| | OFFICE TO INSTALL | |
| | WHAT TO KNOW | ر د |
| | QUIT REPAIR | <u></u> |
| | INSTALLATION MEDIA = CD, DVD, BR, USB, NETWORK etc | |
| | - CLEAN INSTALL = WIPES ALL USER DATA | |
| | - REPAIR = DOES NOT WIPE USER DATA. | |
| | | • |
| | - NETWORK SETTINGS | *************************************** |
| | 4) HOME NETWORK = LEAST RESTRICTIVE. | |
| | HORK NETWORK | |
| | 4 PUBLIC NETWORK = MOST RESTRICTIVE | |
| 2 | RESTRICTIVE | |
| <i>→</i> - | OS VERIFICATION (and not | • |
| 4 | OS VERIFICATION (OR) REGISTRATION = TO GET UPDATE & PATCHES. | 5 |
| | | |
| 4 | DEVICE MANAGER = SNAPSHOT OF ALL HW. | |
| 1 | | |
| 29 <u>X</u> | (- DEKOGOODEROO) CREATE MUTER HALE) | |
| | | |
| | SYSPREP = PACKACES IMAGE (GENERALIZES DATE | |
| | D'CLONE = COPIES THE IMALE (30 PARTY SW) NOKTON CHOST. | |
| | -> USED WITH A BOOT DISK THAT HAS TO BE CREATED FOR | |
| Language of the second | THE ROVING COMPUTERS. ALL COMPUTERS MUST BE SET | |
| . | TO RLV THE PUSH. | 1 |
| | | 1 |
| | | |

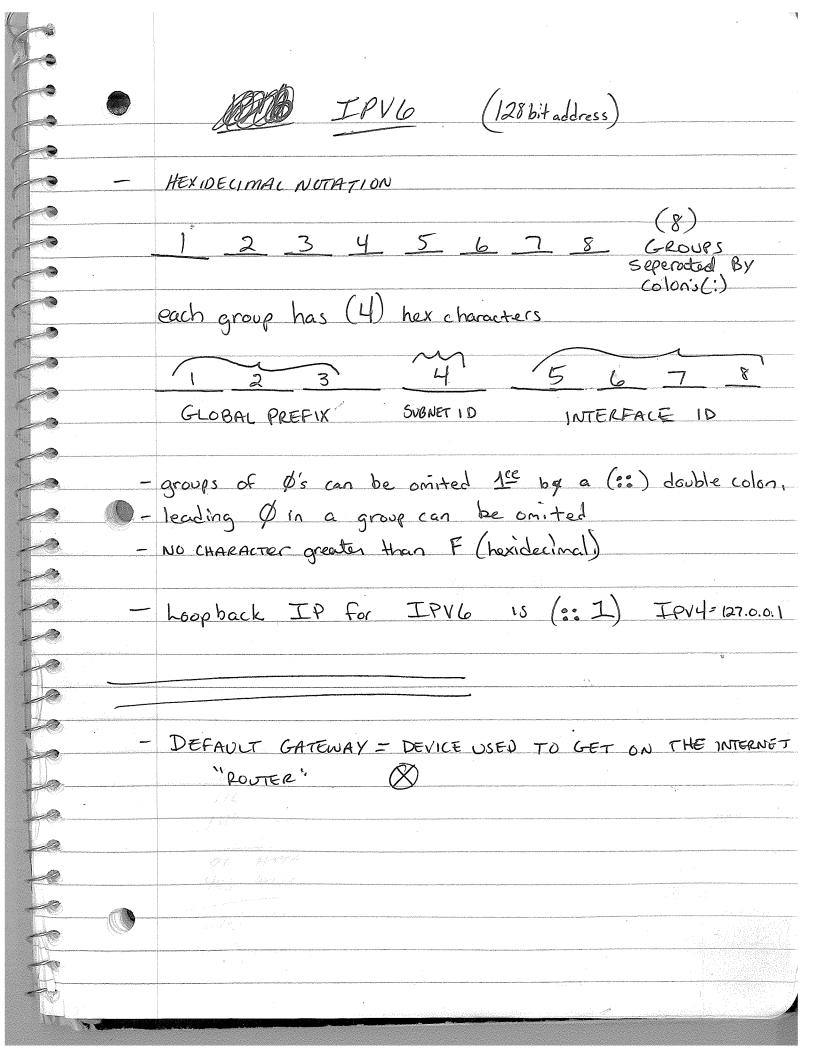
| - L- N | |
|---------------------------------------|--|
| | |
| | |
| | |
| | INSTALATION OPTIONS CONT. |
| 5.2 | 2.2.2 |
| | PXE = PRE INSTALLATION ENVIRONMENT = IN BIOS. (BIOS CONFIGURED) |
| | NETWORK INSTALLATION = REQUIRES A BOOT DISK & ALL SETUP FILES COPIED |
| | UNATTEND = USES UNATTEND. TYT OR AUTOUNATTEND, XML |
| | AS AN ANSWER FILE FOR LACTS, COMPUTER NAME, |
| | REMOTE INSTALLATION : CAN BE REQUESTED BY USER OR FURCED BY ADMIN. |
| | |
| | SYSTEM RELOVERY IS PART OF WINRE (WINDOWS RECOVERY CAUGOMENT) |
| | -ALLESS WINRE BY PRESSING F8 during POST. |
| | |
| * Allway | BOOT PROCESS bootree / fixmbr of \fixboot |
| | 71 7 |
| 05 | Pollest BOOT PROCESS bootree fixmbr or fixboot |
| 05 | XP VISTA / 7 . A |
| 20 sm. | XP VISTA/7 .A |
| M. M. W. W. S. 1.5. | |
| Mimpows with a size | NP VISTA/7 POST = Adaptr caids POST BIOS = MBR BIOS = MBR |
| IS USED WINDOWS WTBOOTOD: SYS. | NTLDR READS BOOT.NOI(6S) NTLDR CEADS BOOT.NOI(6S) NTLDR CEADS BOOT.NOI(6S) ONLY DR CEADS BOOT.NOICES |
| GSI IS USED WINDOWS ES NTBOOTOD. SYS. | NTLDR STARTS NTOEDECT. COM (HW) |
| GSI IS USED WINDOWS ES NTBOOTOD. SYS. | NTLDR STARTS NTOEDECT. COM (HW) |
| GSI IS USED WINDOWS ES NTBOOTOD. SYS. | NTLDR STARTS NTDEBECT. COM (HW) |
| 16.5651 15 USED WINDOWS | NTLDR READS BOOTMOR READS BOOTCONFIG DATA (OS) NTLDR STARTS NTDEBECT. COM (HW) BOOTMOR READS BOOTCONFIG DATA (OS) NTLDR LOADS NTOSKRALEKE & HALDLE NTLDR ROADS REMSTRY + DRIVERS BOOTMOR FEADS TEGISTY, loads drivers |
| 16.5651 15 USED WINDOWS | POST = Adaptic colds |
| 16.5651 15 USED WINDOWS | NTLDR READS REINSTRY + DRIVERS |
| 16.5651 15 USED WINDOWS | NTLDR READS REINSTEY + DRIVERS. NTOSKRNL, EXE STARTS WINLOGON. EXE NTOSKRNL, EXE |
| 16.5651 15 USED WINDOWS | NTLDR READS NOTOSKENLEXE & HALDLE NTLDR READS REISTRY & DRIVERS NTOSKRALEXE STARTS WINLOGON EXE DETECTS |
| 16.5651 15 USED WINDOWS | POST = Adaptr colds POST BIOS = MBR NTLDR READS BOOT. NOI (65) NTLDR STARTS NTDEBECT. COM (HW) NTLDR LOADS NTOSKRALEXE & HALDL NTLDR READS REINSTRY & DRIVERS NTLDR READS REINSTRY & DRIVERS NTLDR LOADS STARTS WINLOGOD. EXE NTOSKRALEXE STARTS WINLOGOD. EXE |

BOOTMOR = YOU CAN SET THE TIMEUMIT YOU WANT TO SELECT BETWEEN (2) OS LOADED. SHRINK VOLUMN FEATURE IS USED TO SPLIT A PARTITION IN WIN 7. - , XP = ADD OR REMOVE PROGRAMS WINT = PROGRAMS & FEATURES ALT FY WILL CLOSE A POP-UP WINDOW PROUGE ANTIMENS VIRTUALIZATION - HYPERVISOR - ALLOWS YOU TO RUN VIRTUAL MALHINES ON YOUR PC BASE METAL TYPE I = (NATIVE) RUNS ON THE HOST of MANALES RESOURCES TO GUEST TYPE 2 = (HOSTED) HOSTED BY AN OS. 2 GUEST GR HOSTED OS'S ARE VIRTUALIZED ON THE NATIVE HAP MACHINE) VIRTUAL PC SYS REQUIREMENTS Ly PROCESSOR = 16Hz 32 OR 64 bit CPU HDISK SPACE = 15 GB. per vertual OS MEMORY = 26B SUPPORTED HOST OS = (NATIVES) 7 HOME BASIC, ENTERPRISE, ULTIMATE THOME PREM. PRO SUPPORTED GUEST OS'S = WINXP / VISTA /WIN 7 MM(= MICROSOFT MANAGEMENT CONSOLES.

| - | - REGISTRY (HIVES) |
|--|---|
| 3 | - DLL = DYNAMIC LINK LIBRARY .= MUST BE RESISTERED OR "DRIVER LOADED" |
| | & from cmo line use regsyr 32 filename. dll to |
| | register a dll |
| | |
| | |
| | - FILE ATTRIBUTES = R A SH (+) adds |
| | read Archive hidden (-) removes |
| | only. |
| , | |
| | |
| | - EASE OF ACCESS = HEARING A MOBILITY NEEDS |
| | |
| | - UA (= USER ACCOUNT CONTROL |
| | |
| | BACKUPS |
| | - NORMAL - ALL DATA/ Removes ARCHIVE BIT |
| | |
| | - DIFFERENTIAL - "" " " DOES NOT REMOVE BY - DAILY - ALL FILES CHANGED THAT DAY /" " " - COPY - ONLY SELECTED FILES WILL BE BOLL /" " " |
| | - Day Y - ALL GLES CHANGED THAT DAY / " " |
| | - COPY - ONLY SELECTED FILES WILL BE B/L / "" " |
| | |
| The Communication of the Commu | |
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| | | | Ch. Le |
| 9 | 9 | | |
| | | | LAN = LOCALAREA NETWORK = ALL DEVICES UNDER SAME ADMIN |
| | | | WLAN = WIRELESS LAN |
| 1 | | _ | PAN = PERSONAL AREA NETWORK = BLUETOUTH = IEEE 802.15.1 = AFH = 2.46Hz |
| Ż | -3 | | LY BLUETOUTH CLASS 1 2 3 |
| Ì | | | loom low lace |
| | -0 | | MAN = METROPOLITAN AREA NETWORK. |
| r | 契) | y garageta and a second se | |
| | 3 | | WAN = WIDE AREA NETWORK = CONNECTS LANS |
| | _ | | PZP = NO CENTRAL ADMIN, BEST FOR 10 ORLESS |
| 96 | | | CLIENT SERVERZ CLIENTS CONNECT TO SERVER "NETWORK ADMIN" |
| | | | 4 the server has an admin. |
| | | | |
| d | | | WORKGROUP = COLLECTION OF WORKSTATIONS/ SERVERS ON |
| | -3 | | A LAN |
| 4 | | | DOMAIN: GROUP OF COMPUTERS/DEVICES UNDER COMMON PROCEDURES. |
| | | | |
| | | | BANDWIDTH = AMOUNT OF DATA THAT CAN BE XMT IN A FIXED TIME. |
| de | | | |
| 4 | | | |
| 4 | | : The state of the | SIMPLEX = UNIDIRECTIONAL = CABLE TV. |
| ø | J-0- | | HALF DUPLEX = ONE DIRECTION AT A TIME = 2 WAY RADIO |
| | PO- | materiae phopor e sepone area area area area area area area ar | FULL DUPLES BOTH DIRECTION SAME TIME: PHONE CALL |
| | Ja_ | The control of the co | Delivers |
| | | intrinsia trinsia anno anno anno anno anno anno anno an | MAC ADDRESS = PHYSICAL ADDRESS = DOES NOT CHANGE Frames ON |
| | | - | 19 ADDRESS = CHANGES (LOGICAL) Transports frames outside LAN |
| | 12 | | 事 사람들은 사람들이 가득하다 하는 사람들이 되었다. 그 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 |
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| | 40 | - And the second | 100-01-0F-31-FF-2B |

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| 7-49 | | | | | | | | | | |
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| 3 | | 8 bits | 80113 | | 0014 | <u> </u> | × | B Di+5 | | September of the section of the sect |
| 13 | Access of the second se | | grano-kamuningskina a kepanana na anaka aya ana ana anaka aya aya ana ana anaka anaka anaka anaka anaka anaka a | | | | V | | | |
| Trademontal Assessment Control of the Assess | - (| 4) eight bit b | vtes. | 0 | | / | 0 | / / | 0 | |
| - | ~ | 1 BYTE = 8 b. | <i>t</i> s | 128 | 64 3 | 32 1 | 16 8 | 8 4 | 2 | / |
| | | 4) OCTETS | | | | V | | | | |
| | _ | 32 bit Addre | / | 64+ | 32+8+ | 441 | = /6 | 79 · | | |
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| | and consight to make the control of | 1287 | | | range | | CLAS | - | NM | |
| | | | | <i></i> | | | | 255.0 | | |
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| | | 1921 | 7 j | | 192 - | 223 | <u>C</u> | 255.2 | 55,25 | 5.0 |
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| | | 2243 | | | | | E e | sp. | _ | |
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| | Ne | twork HOST | | | 10, X.X | | | | 19 | |
| | Maryana Lawa 2000 | | | | 16. X.X -/ | | XB | | | |
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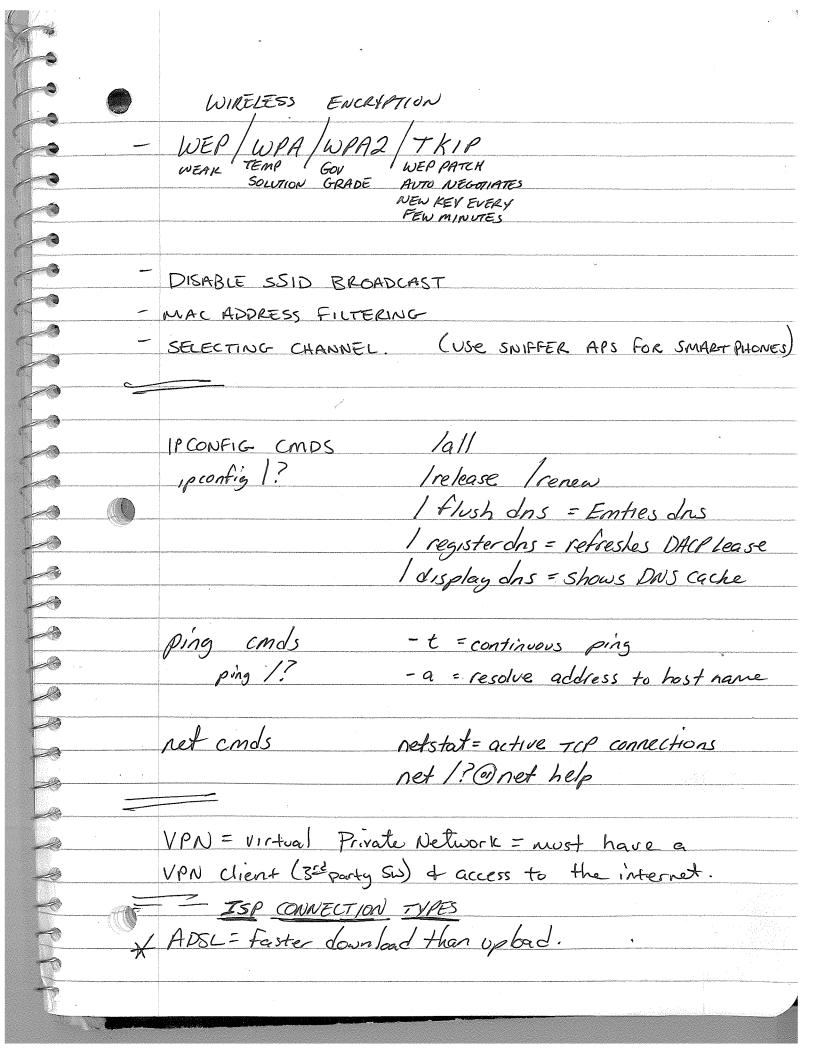




| | | | DNS |
|------------|--|--|---|
| -6 | | | RIP |
| -3 | | | (ARP ON! |
| -3 | | • | |
| | | DHCP = DYNAMIC HOST | CONFIG PROTOCOL = AUTO ASSIGNS IP'S |
| = | | = LEASES IP'S | |
| | | CAN'T COMM W/ DHO | P = APIPA 169.254.X.X |
| 3 | | LA CAN ONLY COMM | n W DEVICES IN SAME RANCE. |
| -3 | | | |
| | | DNS = IP TO THE | ANE HOSTNAME - (OR) URL TO IP |
| | an eliteria anni d'unin i en me construe de construe d | | |
| | | ALTERNATE IP CONF | 16 |
| | and the second s | | |
| · | anning a marawala di di partira di di si Arizanda di di si Arizanda di di si Arizanda di di si Arizanda di di s | PING = USED TO VERIFY | LINK. |
| | | IPCONFIG & IPCONF | 6 all = verify 18/SNM/Default Gateway |
| ~) | | | 1 / Sister / Saleway |
| 2 | | TCP = CONNECTION = | EMAIL |
| . | | | = VOICE STREAMING VIDEO |
| 4) | | | финальный при |
| | (a. ±1. 7. % | NOT SELVE, Sin | |
| 2 | 255 | 115 ŠFTP | ROP = 3389 (LOAP = 389 = access into directority |
| | | 20/21 FTP | SNOT IMPORTANT |
| | an planting and a second and a | | July Information |
| | | 23 TELNET | 445 = shared access |
| | 450 | 25 SMTP | |
| * | The sale | 110 100 | (61 = SNMP = manages/monitors |
| <u> </u> | | 143 IMAP | devices on a network |
| 2 | | . go HTTP | |
| | | 443 HTTPS | |
| 2 | AF (Inc.) | All property of the second | |
| 4 | | pr\$ 53 | |
| | | DHCP 67 | |
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| | |
| | NETWORK DEVICES |
| 3 | - HUBS - brandcast out all ports |
| | - SWITCHES - USE MAC address |
| | - Routers - use Paddresses |
| | |
| 3 | - POE = Power over ethernet = small amount of pur up |
| | |
| | to 100 m |
| | |
| | - wireless access point= provides wireless |
| | - sode |
| | - multipurpose device = router/switch/access point |
| | |
| | - NAS = Network attached Storage. |
| | |
| | - firewall = keeps date out or in. |
| -0 | Thewar Ray S Same So, or 170, |
| 10 | 6422 NETUNRE MET |
| | 642.2 NETWORK MEDIUM (HOW 1+'S connected) |
| | F- Senies Cons |
| 20 | - COAX = THICKNET/THINNET/ RG 6 4 RC59 -> CABLETY. BNC MILSPEC COMP (40) |
| | STP/UTP= CAT3 @ IOMBPS CATSE @ 1000 BNDPS or 16bps |
| - | = ETTERNET 100M MAX = AATS @ 100Mbps CAT 6+6e 1Chps |
| | Ly crossover My strait trough. TIPS = RJ11 4RJ45 |
| | T568A-T568B T568A-T568A |
| | LIKE DEVICE UNLIKE DEVICE |
| | CONNECTION CONNECTIONS |
| - 10 | = FIBER = MULTIMODE NOT AS FAR AS SINGLEMODE < ST |
| | The state of the s |
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| The state of the s | | |
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| | | |
| | | |
| | | MESH= most redundant topology |
| | | STANDARDS |
| | _ | TFFF = IFFF 13911 - a Dillocation to growther a D 1 |
| 3 | | Paralell - IEEE 1284 /2.4/5/2.4/2.5/5 (A) 36 p. centroux= 1284 /2.4/5/9/5/9 AD PLAY (A) |
| 1000 | | TEEE 802.11 = BUETOUTH = 2.4 GHZ= AFH=PA |
| | | IEEE 802.3 = ETHERNET = CSMA/CO = 100 |
| | | A \$ 1 |
| | en e | TCP/IP OSI level Application 7 |
| | | Application Presentation 5 |
| | en sempro no primo no sempro se se construir de la construir de la construir de la construir de la construir d | Transport PORT Transport 4 |
| | | Internet IP Network 3 |
| | literatur balan mengapakan mengabikan mengabikan kengapakan sebagai kengapakan sebagai kengapakan sebagai keng | Network access MAC Datalink 2 Physical 1 |
| | | |
| | | |
| in i | | CONFIGURE NIC = IP ALTERNATE |
| 10 | | SUBNET MASK DHCP. JEP SETTINGS. |
| 100 | The second secon | DEFAULT GATEWAY |
| | | |
| | | |
| | | LINK LIGHTS / APIPA / HOME-WORK-PUBLIC |
| | | 17 - 10 014 - 10 |
| | | STORCE A DACP POR LEASE |
| | | IP CONFIG Release |
| A A | (2) | IP CONFIL RENEW |
| | | WIRELESS |
| -8 | | CONFIGURE ROUTER - USE DEFAULT GATEWAY IP |
| | | -LOG ON, CHANGE DEFAULT PASSWORDS |
| | 7 | NAT = NETWORK APPRESS XLATION = PRIVATE IP TO PUBLIC |
| | B | 1011 1000000 TIPPRESS ALTERION - PRIVATE IP TO PUBLIC |
| 100 | A 100 Marie 1 | |



ISP CONNECTION TYPES (CONT.) WiMAX = IP BOSED 46 technology & internet for mobile devices = IEEE 802.16e SUPPORTS MAN SIZED ... Network. Fixed Willax = Point to Point Mobile Willax = Mobile. like Wifi w/ higher speeds of longer range Coddal edidore Cellular Technologies 16 = Analog 26 = Digital Voice 2.56 = Digital voice, text, pics 36= Digital voice, text, video 3.56= Faster 46 = Fasterer W/ 1PV6 User can loganto the local network but cannot access the internet? WRONG DEFAULT GATEWAY - if not, tracert to see where signel Stops:

LAPTOP DESKTOP

| Component | LAPTOP | PESKTOP |
|----------------|------------|--------------------|
| MBOARD | PROPRIEMRY | AT/ATX/NLX/BTX/LPX |
| EXPANSION SLOT | MIN) PCI | PCI PCIE 15A AGP |
| RAM | SODIMM | SIMM DIMM LIMM |
| | | * |

what can you do w/ a dual purpose keyboard on a laptop? Numcock etc...

LAPTOP DISPLAYS

- LCP = inverter (DC to AC For backlight) (CCFL technology = Floresent lamp)
- LED = Uses DC backlight.
- OLED = No backlight/expensive
- PLASMA = More pur / neat

* ACPI replaced APM but may need to be enabled in Blos.

50= All ON

SI = CPU RAM ON

S2 = RAMON = St

53 = RAM Slow = sleep / suspend

SY = All off - data saved to HDD = hypernate

S5 = All OFF - NO SAVE

PCMCIA CARDS thickness. Sire TYPE 1 = 85,6 mm X54 3.3 mm 11 = 85,6 am X54 5mm 111 = 85.6mm X54 10.5 mm Express card34 75 \$34mm Express card 54 75 x 54 mm CRU'S FRU'S CUSTOMER / FIELD REPLACABLE UNITS. BATTERY MBOARD RAM DISPLAY L CELY LAPTOP HOD = 1.8 OR 2.5,N BEFORE DOING MAINT REMOVE AC & DC PWR - DATA OR SW MAINT = DO BACKUPS.

Ch. 8 MOBILE DEVICES replacable mobile device components = Battery/Mem Card/sin Capacitive touch screen = body changes the electrical field - resistive touch screen = 2 layers = pressure changes - slide/swipe = move between screens - double touch = zoom in of out - long touch = to select Items. - scroll = scroll items that are too large for the screen - Pinch to zoom - Android (google) = apps from Google play /Amozon/I Mobile etc... 45 Open source = Free as development/contribution/mod - ; OS = (Apple) Apps from AppleStore (NOT OFEN SOURCE) Side loading = gotting apps from a source other than the internet (1001, sailbreak, blue tooth)

wifi = uses less pur & passes more data than cellular - accelerometer = changes view between portrait of landscape automatically by reading censors. 26=GSM=CDMA=; Den = PDC SMS = text 3G=COMA ZOOO=EV-DO=TD=SCOMA=FOMA 46 = MOBILE W: MAX = LTE (4GLTE) MMS = VIDEO PACKET SWITCHING = accessing INTERNET mim = allows me to have text/pics/docs in MY SMTP SSL = allows me to xfer it securely - You can crossplatform sync. For example itunes is an apple app that can be sync on android. Android = google drive > storage of data calendar mail are - iOS = iCloud YOU MUST BE CONNECTED TO CELLULAR WIFI TO REMOTE WIPE OR REMOTE LOCK AN iPhone. You can't schedule a virus scan on an ifhore but you can on Android. - Mobile Lence appr run in a "sandbox" to protect the

Rooting or Jail breaking = like changing the BIOS ANDROID = Pout 105 = Jail breaker

Ch. 9 Printers Processing = PS/PCL converted to bitmap/stored on memory 1 Printers -Charge-Charging = Pri Corona (-6000) removes latent mage Exposing = laser writes (-100V) creatily latent image Extra-During -Developing = toner applied to new latent image Transfering = to ner 15 applied to charged paper The toner pressed & melted to paper excess toner removed from down. Cleaning-Developing toner applied (transfer 6) IMPACT = DOT MATRIX = DAISY WHEEL = NLQ PRINTHEAD 9/24 PIN = CUrbon COPY INKJET = PIEZOEIECTRIC = thermal = Inkwet when fresh = nozzles clog SOLID INK = ink must be melted / Slow warm up / Vibrant alor images THERMAL = chemically treated paper DYE SUBLIMATION = photo printer / photo paper solid sheets clear overcoat. Of ink that change to gas (Sublimating)

Ch. 10 sewrity INTERNAL THREAT EXTERNAL THREATS PHYSICAL & DATA SECURITY VIRUS= PROGRAM WRITTEN W/ MALICIOUS INTENT WORM = SELF REPULATION - TROJAN = HIDDEN IN SW/ pretends to do one thing / does another phishing = pretends to represent legit org. - adware = unwanted ads - spyware= monitors / reports grayware = tries to get you to unknowingly give out PII - DOS = Denial of service 1) Ping of Death = series of repeated pings designed to crash recvins duce Is enail bomb = large ary of bulk enail designed to crash server - DDOS = distributed DOS = uses many infected computers zombies - SPAM= unsolicited enall social engeneer = tries to gain access by tricking - TCP/IP ATTACKS - SYN FIOOD = RANDOMLY OPENS TUP PORTS - Spoofing = gains access by acting like trusted computer - Man in middle = inserts false trafic into data between host. - replay 9 Hack = gets username powerds to be used later - ONS poisoning = changes PNS Records. on a machine

| | 2 |
|--|--|
| | - ROOTKIT = gains full access to a system t can hide from antivirus |
| | from antivirus |
| | |
| | - permission propagation = everything in a folder gets the |
| | permissions assigned to the folder. |
| | |
| A. | - TOM 1 107 111 |
| | - TPM = Trusted platform module = chip on MBoard used to |
| - 10 Sept (10 to the following 10 Sept or 10 to the september of the 10 to the september of the 10 to the | encrypt your HDD. TPM is required to use Bitlocker t |
| | 15 specific to a computer. |
| | |
| | - HASH ENCODING = SHA, MDS, DES = Protects data during |
| | transmission using an HASH Algorythm. |
| | |
| | - DMZ = Safe zone for apps/accts etc (outside network) |
| <u>.</u> | Lo also can use port fund rules inside my network |
| - | - lusrmgr.msc=local user manager = guest acct/employer |
| 4 | acot termination |
| 2 | Cacci Siring Ariors |
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| A security and the second control of the sec | |
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801 Simulation list - List Motherboard components - Pick components for a gaming / HTPC / Thickdient/virtual - Match video connectors to their name. - secure a wireless router - matching wireless securities 802 sim 1/st - schedule 2 files to print from windows task scheduler at different times. (study) * VISHING = Voice phishing create partition in disk most will not boot -> bootrec /fix boot ee bootrec /fixmbr

Steps to correct Malware attack O Quarantine (get it off the network) @ Disable Restore (possibly delete old Pestore) B) Remediate (fix or Lemove malware) @ Enable Restore (5) Create a new Restore Point 6) Educate user - ROOT KIT VRS ANTIVIRUS = ROOT KIT CAN HIDE FROM ANTIVIRUS SW. TROUBLESHOOTING STEPS (MATCHING) - Setup an ALTERNATE IP CONFIGURATION FOR A CUSTOMER, (ALL INFO IS GIVEN) 4 X SET UP EMAIL ON A SMART PHONE = BEWARE = THE COMPANY POLICY ON THIS SIMULATION STRICTLY FORBIDS PERSONAL DEVICES ON THE COMPANY NETWORK. = DISABLE THE WIFE 4 EDUCATE USER ONLY VERY TRICKY ALL INFO IS GIVEN for setup, read fine print.