

04/06/2025 – INTERN

HARDWARE TROUBLESHOOTING

- ❖ A monitor connects to the SU through cables: VGA, HDMI or D cable
- ❖ A cable that connects power is called a power cord
- ❖ Ram has specifications like PC3 PC4 and this is the processing power. The bigger the RAM the better
- ❖ A motherboard has several ports that can be replaced and scaled vertically
- ❖ It has two bridges ie northern and southern bridge. Northern bridge is for memory allocation and the Southern is for peripheral management
- ❖ The processor has a processor fan made of aluminium basically for conduction purposes and a conduction layer.

TROUBLESHOOTING ISSUES

- ❖ One PC has 8GB and i3 but its relatively very fast and holds windows 11, boots faster
- ❖ Others have 2GB and i3 and are very slow, and boot slowly
- ❖ One has 4GB, i3 windows 7 and is relatively fast

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SOFTWARE INSTALLATION AND COMPUTER MAINTANANCE

Qualities to consider

- ❖ Architecture
- ❖ O.S
- ❖ Size of the S.W
- ❖ RAM size
- ❖ Hardware compatibility
- ❖ Security
- ❖ SW License

CHECKING FOR PC SPECIFICATION

- ❖ DxDiag,,, and all other means

STEPS OF OS INSTALLATION

- Must have a license
- Create a bootable drive – for installing O.S
- **USING RUFUS**
 - Choose the windows image
 - The PC automatically sets other options

- GPT for UEFI, then MBR for legacy and the trade off is in how the partitions in the drive will be created. GPT allows for more than 4 partitions unlike MBR which allows for a maximum of 4 partitions
- USSD, Flutter wave,

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- ❖ System restore helps to restore computer back to normal in case a malicious software has been installed
- ❖ Workgroup is the domain for windows that enables interaction among all users
- ❖ Search for workgroup and add new domain, configure new domain with the windows server, having installed the active directory
- ❖ Dual boot windows and ubuntu
- ❖ Installation. Pilot (Just a try, u can maybe try the software in one of the labs), Parallel (Involving getting a duplicate and install exactly what's required in another, can make both run concurrently and then eventually turn one off
- ❖ VM ware can allow for installation of multiple O.S. You can install one O.S then u install the VMware on it, then u install other O.S in the VM
- ❖ The DHCP is used to configure IP automatically to multiple PCs

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MAKING A BOOTABLE FLASH

- ✓ Open CMD as admin or powershell
- ✓ Run command `diskpart`. Its where all the disks are, then run `list disk`, then select disk 1, then if you run `list disk` again it must have a star on the selected disk
- ✓ Run `create partition primary`, you can first clean it with `clean` command
- ✓ Run the `format fs =ntfs quick` command. Quick is for it to work out faster faster
- ✓ Run `assign` to assign a letter to your drive
- ✓ Run `active` to activate the bootable flash
- ✓ Then exit diskpart and cmd.

This is convenient and alternative to Rufus, convenient to copyrighted flash disks.

- ✓ Then we extract files from windows image using WinRAR