**CMD COMMANDS**

N/B: Cmd is not case-sensitive

**CTRL + C** – Cancels/ Aborts the current command.

**Cls** – Clear Screen *(Erases all the data in the cmd terminal displayed previously)*

**Doskey/History** – Displays the history of commands you have used in the current session.

**Directory Management**

**Cd** – Change Directory *(*

*Cd.. – Moves Focus to Previous directory*

*Cd\ - – Moves Focus to Parent directory, i.e. Local Drive C: or D:*

*^ - Signals a white space, or a special character, before it is appended, e.g. Daniel^ Karongo, Movies^ ^&^ Series*

*D: … - Changes the Drive to Local drive D:\*

*/d – Appended after the cd command to switch the drive to local drive D:\,*

*e.g. cd /d “D:\Documents”*

*“” – Represents a Directory name as a string literal for easier transcription, e.g. cd “Movies & Series”)*

**Dir** – List all the files and Folders in a Directory

**Mkdir** – Make Directory *(Creates a New Folder in the current directory)*

**Ren** – Rename *(e.g.*

*ren JSS plab – changes the name of the folder named JSS to plab)*

**Xcopy/ Robocopy** – Copies *Folders (e.g.*

*xcopy "C:\Users\Daniel Karongo\Desktop\plab" "C:\Users\Daniel Karongo\Desktop\jss" – copies the “plab” folder and pastes it as another folder “Jss”)*

**Move** – Cuts folders *(e.g.*

*move "C:\Users\Daniel Karongo\Desktop\jss" "C:\Users\Daniel Karongo\Desktop\plab" – cuts the “jss” folder “plab” folder specified in the path)*

**Rmdir** – Deletes Empty Folders *(e.g.*

*/s – Used to delete non-empty folders*

*/s /q – Used to force delete a folder*

*Rmdir /s /q “C:\Users\Daniel Karongo\Desktop\jss”)*

**File Management**

**Type nul>** - Creates a file *(e.g. type nul> jss.pptx – creates a PowerPoint file named jss)*

**Ren** – Rename *(e.g.*

*ren jss.pptx plab.pptx – changes the name of the PowerPoint file named jss to plab)*

**Copy** – Copies Files *(e.g.*

*copy plab.pptx plab1.pptx – copies the plab.pptx files and pastes it in the same directory but renames the new file as plab1.pptx)*

**Move** – Cuts files *(e.g.*

*move XYZ.docx "C:\Users\Daniel Karongo\Desktop\jss" – cuts the XYZ.docx file from the current directory to the Jss folder specified in the path)*

**Del** – Deletes Files *(e.g.*

*/p – Requires the command be prompted before the file is deleted*

*/f – Forces the deletion of a read only file*

*del /p /f plab.pptx – deletes the “plab” PowerPoint file)*

**Task/Service Management**

**Tasklist** – Displays all the running tasks/ processes

**Start** – Opens a new program *(e.g. start winword.exe)*

**Taskkill** – Terminates a program *(e.g. taskkill /pid 7100)*

**Net Start** – Displays all the running services

* Starts a specific service *(e.g. net start “Windows Update”)*

**Net Stop** – Terminates a specific service *(e.g. net stop “Windows Time”)*

**Driverquery** – Displays all the installed drivers

**System & Program Information**

**Wmic *(Windows Management Instrumentation Console)*** – a command-line utility that allows users to perform WMI operations from a command prompt

**Output:** - Specifies the location to which the data queried should be exported *(e.g.*

*output:c:\sys.txt computersystem get model,name,manufacturer,systemtype)*

**Cpu** – Displays all the properties of the CPU

**Exit** – To leave any sub-console

**Diskpart** – A command-line utility that facilitates disk management

**List Disk** – List the Disk drives in the computer

**Select disk** – selects a specific disk *(e.g. select disk 0)*

**Detail Disk** – Displays all the details of the disk you have selected

**CHKDSK** – Check Disk

**Getmac** – Get the physical Mac Address of the Network interface Cards (NICs) in the device *(e.g. getmac /v /fo list – Details about all Ethernet Adapters, Wireless Adapters, and Tunnel Adapters will display)*

**ipconfig** – Displays the configuration information of the above devices

ipconfig/all – Displays even more/all configuration information

ipconfig/? - Displays a Help message.

ipconfig/allcompartments - Displays information for all compartments.

ipconfig/release - Releases the IPv4 address for the specified adapter.

ipconfig/release6 - Releases the IPv6 address for the specified adapter.

ipconfig/renew - Renews the IPv4 address for the specified adapter.

ipconfig/renew6 - Renews the IPv6 address for the specified adapter.

ipconfig/flushdns - Purges the DNS Resolver cache.

ipconfig/registerdns - Refreshes all DHCP leases and re-registers DNS names.

ipconfig/displaydns - Displays the contents of the DNS Resolver cache.

ipconfig/showclassid - Displays all the DHCP class IDs allowed for adapter.

ipconfig/setclassid - Modifies the DHCP class ID*.*

**Systeminfo** – Displays the system’s information

**User Management**

**Lusrmgr.msc** – Opens the User Management feature on the Microsoft Management Console. Entered on “run”

**Net User** – Displays the list of Users in the device

* Used to Create User Accounts *(e.g. net user XYZ /add 12345678)*
* Used to Delete User Accounts *(e.g. net user /del XYZ)*
* Used to Activate User Accounts *(e.g. net user administrator /active:yes)*
* Used to Disable User Accounts *(e.g. net user administrator /active:no)*
* Used to Change the Password of User Accounts (e.g. net user “Administrator” \*)

**Encryption of Files**

**Attrib +H +R +S** – Hides all the files in a directory and makes them read-only *(e.g. attrib +h “abc.docx” – Hides the “abc” word document in the current directory)*

**Cipher /e** – Encrypts all the files in directory *(e.g. cipher /e “abc.docx” – encrypts the “abc” word document in the current directory)*

**Cipher /d** – Decrypts all the files in directory *(e.g. cipher /d “abc.docx” – decrypts the “abc” word document in the current directory)*

**Cipher /rekey** – Regenerates and updates the encryption key used for encryption of the files in a directory for example when a hacker has been able to decrypt the original key.

**Assoc** – Displays the meaning/association of a file extension *(e.g. assoc.txt – returns “.txt=txtfile”)*

**Exporting Files**

**A > b** - Exports the results of a into file, *(e.g. Tasklist > jss.txt – lists of the running tasks and exports them to a text file called “jss” overwriting all that was previously there)*

**Echo a > b** – Writes text a within file b, *(e.g. echo xyz123.com > jss.txt – Creates a text file called “jss” and writes “xyz123.com” within it.)*

**Copy Con** **…** - Similar to “echo” except it allows for multiple lines of text, (*e.g. copy con xyz.txt <Press Enter>*

*The quick fox jumped over the lazy dog*

*The quick fox jumped over the lazy dog*

*The quick fox jumped over the lazy dog*

*<Press Ctrl + Z> <Press Enter>)*

**Type <a>** - Displays the text within the text file “a” on the command-line interface (cli), *(e.g. type xyz.txt – Displays the text within the “xyz” text file)*

**Disk Management**

**Diskpart** – A command-line utility that facilitates disk management

**List Disk** – List the Disk drives in the computer

**Select disk** – selects a specific disk *(e.g. select disk 0)*

**Detail Disk** – Displays all the details of the disk you have selected

Formatting and Re-Partitioning

**CHKDSK** – Check Disk *(done outside diskpart) E.g. “CHKDSK /r F:”*

**Clean** – Erases the selected disk’s data and configuration information off the disk.

**Clean All** – Similar to Clean except the data erased is not recoverable *(All the data is zeroed)*.

**Create Partition Primary** – makes a disk usable by creating a usable partition on the disk.

**List Partition** – Lists all the partitions available on a disk.

**Select Partition …** - Selects a partition in a drive.

**Format fs=ntfs quick** – Formats the selected partition, i.e. assign a file organisational system on the partition, e.g. NTFS, FAT32 etc.

**Active** – Marks the now-formatted partition as active.

**Assign** – Activates the partition so that it can now be used, by assigning a drive letter

**Label <A>:** - Done outside Diskpart. Creates a Custom Name for a partition/drive, *(e.g. label D: <press enter> Xyz <press enter>. – Assigns the name/label “Xyz” to partition/drive “D:”)*

**Shutdown, History & Tree Commands**

**Tree** – Displays the hierarchy of files and folders from the same level as the current directory all the way to the leaves/lowest level.

**Date** – To change the date provided by the system.

**Time** - To change the time provided by the system.

**Shutdown** – Shuts down/ Restarts etc. the computer given some parameters:

-/a – aborts the shutdown command previously given.

-/s – Shuts down the computer

-/r -restart – restarts the computer.

-/r /fw – restarts in firmware mode.

-/r /0 – restarts the device into the advanced boot options.

-/L – signs out of the current session.

-/h – hibernates the computer

-/t – indicates the time, in seconds, after which the shutting down should happen.

-/p – shuts down without waiting nor warning.

-/f -force – forces the shutdown, forcing all apps to close.

/c – Displays a Custom message before shutting down..

/? – Gives the list of reasons for shutting down.

/d p:Major\_num:minor\_num – Specifies the reason for shutting down.

**reg add HKLM\Software\Microsoft\windows\CurrentVersion\Policies\system /v LocalAccountTokenFilterPolicy /t REG\_DWORD /d 1 /f <press Enter> reg add – Disables the User Accounts Control for Remote Executions.**

**reg add HKLM\Software\Microsoft\windows\CurrentVersion\Policies\system /v LocalAccountTokenFilterPolicy /t REG\_DWORD /d 0 /f. <press Enter> reg add - reverts the command above.**

**- net use \\<REMOTE-PC>\ipc$ - Connects to the IPC$ share of a remote device.**

**- shutdown /r /m \\<REMOTE-PC> /t <TIME> /c "<COMMENT>” /f – Shuts down a remote device.**

**- net use \* /delete – Disconnects from the remote device’s IPC$ share.**

*Checkpoint: 1:28:15*