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# EXERCISE 1

**BASIC LINUX AND WINDOWS NETWORKING COMMANDS**

**AIM:**

To explore and practice basic linux and windows network command.

**LINUX COMMANDS:**

1. **ls** – list directory

**Synopsis:** ls [option]… [File]…

**Description:** Displays files and directories in the current working

directory, sorted alphabetically by default.

2. **touch –** change file / create empty file

**Synopsis:** touch [option]… [File]…

**Description:** Creates an empty file or updates the timestamp of an

existing file.

3. **cat –** concatenate and display file contents

**Synopsis:** cat [option]… [file]

**Description:** Prints the contents of one or more files to standard

output.

4. **ls -l** – long listing format

**Synopsis:** ls -l

**Description:** Shows detailed file information such as permissions,

owner, size, and modification time.

5. **chmod** – change file permissions

**Synopsis:** chmod [option]… mode file

**Description:** Changes file permissions using numeric or symbolic

notation.

6. **mkdir** – make directories

**Synopsis:** mkdir [option]… Directory

**Description:** Creates new directories. Use -p to create parent

directories as needed.

7. **ls -a –** list all files including hidden

**Synopsis:** ls -a

**Description:** Lists all files, including hidden files

8. **nano –** text editor

**Synopsis:** nano [file]

**Description:** Opens a simple, user-friendly terminal text editor.

9**. rm –** remove files

**Synopsis:** rm [option]… File…

**Description:** Deletes files or directories

10. **rmdir –** remove empty directories

**Synopsis:** rmdir (directory)

**Description:** Removes a directory only if it is empty.

11. **ps -e** – list all running processes

**Synopsis:** ps -e

**Description:** Displays all currently running processes on the system.

12. **grep** – search for text patterns inside files

**Synopsis:** grep &quot;word&quot; file.txt

**Description:** Searches for a given text pattern in files.

**WINDOWS COMMANDS:**

1. **dir –** list directory contents

**Synopsis:** dir [path] [options]

**Description:** Lists all files and directories in the specified path.

2. **cd** – change directory

**Synopsis:** cd [path]

**Description:** Changes the current working directory.

3. **cls** – clear screen

**Synopsis:** cls

**Description:** Clears all text and commands displayed in the terminal

window.

4. **echo** – display message

**Synopsis:** echo [message]

**Description:** Prints a message or variable value; often used in batch

scripts.

5. **del** – delete file

**Synopsis:** del [filename]

**Description:** Deletes one or more files from the file system.

6.**tasklist** – display all running processes

**Synopsis**: tasklist [options]

**Description**: Shows a list of active processes with details such as PID.

7.**find –** search for text within files

**Synopsis:** find &quot;string&quot; [filename]

**Description**: Searches for a specific string of text inside a file.

8. **systeminfo –** display system configuration

**Synopsis:** systeminfo

**Description:** Displays detailed configuration information about the

system, including OS version, memory, and network details.

9. **typeperf –** monitor performance counters

**Synopsis:** typeperf [counter...] [options]

**Description:** Displays or logs performance counter data to the

console or a log file.

10. **tracert** – trace network route

**Synopsis:** tracert [options] &lt;hostname or IP&gt;

**Description:** Shows the path taken by packets to reach a destination

host, listing all intermediate routers.

**RESULT:**

All Linux and Windows commands are practiced.