LINUX FILE SYSTEM PERMISSIONS		
DESCRIPTION	COMMANDS / OPTIONS	
Shows detailed information about permissions and ownership	Is [options] location -I Long list -a hidden files and directories in the listingt Sort files and directories by their last modification time, displaying the most recently modified ones firstr known as reverse order -S Sort files and directories by their sizes -R List files and directories recursively -i known as inode -g known as group -h Print file sizes in human-readable format -d List directories themselves, rather than their contents.	
Type of files in linux	Type of files in linux -i inode number - is a regular file d is a directory l is a symbolic link c is a character device file b is a block device file p is a named pipe file s is a local socket file	
changes file and directory permissions	chmod [mode] [permission] [File_name] u user g group o other a all Symbolic permission r Read w Write x Execute X Special Permission Numberic permission 4 Read 2 Write 1 Execute + add permission - remove permission = set - R Recurcivly	

DESCRIPTION	COMMANDS / OPTIONS
Special permission	Set & remove Special Permissions
	Set-user-ID (SUID)
	chmod u+s FileName
	s
	S
	remove SUID
	chmod u-s FileName
	Set-group-ID bit
	chmod g+s FileName remove SGID
	chmod g-s FileName
	The Sticky Bit
	chmod +t FileName
	t
	Т
	remove Sticky Bit
	chmod -t FileName
	chown [options] new_owner[:new_group] file
	-c To report when a file change is made
	-v enhances the verbosity of the `chown` -f to suppress most error messages and forcefully or
Change file Directory ownership	silently change ownership
	Sherity change ownership
	To File Ownership in Linux
	chown owner name file name
	To change the group ownership of a file
	chown :group1 file1.txt
	umask[options]
	=max permission - UMASK
	file = 777 - 111 = 666
	effective =666-022= 644
To set default permissions for files or	DIR = 777-022= 755
directories	The default permissions config file
	/userHome/bashrc
	/etc/login.defs
	/etc/profile.d/
	source .bashrc
To change the group ownership of a file or directory	chgrp [OPTION] GROUP FILE
	-R To recursively change the group ownership
	-c The action for each File whose group actually changes
	-f To suppress error messages

DESCRIPTION	COMMANDS / OPTIONS
ACCESS CONTROL LIST (ACL)	To get details about permission getfacl[file/dir] To set permission setfacl[options][ugo]:Name : [Permission]File/Dir -m (modify) -x (remove) -d (defaults) -b To remove all entries
Attributes of a file in a directory	To list the attributes of files or directories sattr [options] [files/directories] -a: Lists all files and directories, including hidden -d: If the argument is a directory, list the attributes of the directory itself rather than its contents. -R: Recursively lists the attributes of directories and their contents. To changing the attributes of a file in a directory chattr [-RVf] [-v version] [mode] files -R: It is used to display the list attributes of directories and their contents recursively. -V: It will display the version of the program. -a: Used to list all the files of a directory which also includes the whose name starts with a Period('.'). -d: This option will list the directories as regular files instead of listing their contents. -v: Used to display the file's version/generation number etc.
operators	'+': Adding selected attributes to the existing attributes of the files. '-': Causes selected attributes to be removed. '=': Causes selected attributes to be the only attributes that the files have.