Comman d	Description(s)	Example(s)
Connection	ns	
Solaris	sf3.comp.nus.edu.sg	
	sunfire.comp.nus.edu.sg	
	sunfire-r.comp.nus.edu.sg [from home without	: VPN]
Linux	tembusu2.comp.nus.edu.sg	
Useful Con	nmands	
clear	Clear the screen	
history	Display a list of index and commands	!682
	previously used.	!ls
	!cd - execute the last cd command	!gcc
General Help		
man	Find and display reference manual	man signal
	man [OPTIONS] [name]	man -a signal
	OPTIONS:	
	-a : All manual page matching name	
	 -I: List all manual pages found matching name 	
whatis	Gives a short description of the command	whatis Is
help	Give syntax of command	duhelp
	[command]help	
help	Gives a list of commands	help
Пеір	Gives extra information of the command	help pwd
General/Sy	stem Commands	
su	Become super user or another user	su
	su [-] [username [arg]]	
date	Shows the server date/time	date
df	Display the disk space in file system	df -k CS2106
	df [OPTION] [FILE]	
du	Summarise disk usage by user	du
	du [OPTION] [FILE]	
uname	Print system information	uname -a

Comman d	Description(s)	Example(s)
exit	Terminate the session	exit
File Syster	n Commands	
mount	Connect filesystem	mount /mnt/thumb
	mount [-fnrvw] [-t vfstype] [-o options] device dir	
umount	Disconnect filesystem	umount /mnt/thum b
Is	List files and directories	ls –al
	ls -1RaAdCxmnlogrtucpFbqisfL [files]	ls –l
	Options:	ls –l ~/cs1101
	- a Show all files include '.' Starters	
	-I long format	
	d Show directories	
cd	Change directory	cd cs1101
		cd ~
pwd	Print work directory	
rm	Delete a file	rm –R foldername
	rm [OPTION] FILE	rm –v index.txt
	Options:	
	-f never prompt	
	-v verbose mode	
	- R recursive removal of folders / files	
mv	Move/ Rename files	mv a.txt b.txt
	mv [-f] [-i] f1 fn d1	mv a.txt cs1101
ср	Copy files and directories	cp a.txt ~
	cp [-f] [-i] [-p] f1 fn d1	
	Options:	
	 -R recursive copy of folders 	
	-f remove existing dest files	

Comman d	Description(s)	Example(s)
	v verbose	
mkdir	Create directory	mkdir folder1
rmdir	Remove directory	rmdir folder1
Permissio	ns Settings	
chmod	Change the access permission of file/directory.	chmod 755 cs1101
	Type One	
	3 types of users: owner, group, others Full Access: 7(Owner)7(Group)7(Others) execute permission = 1	
	write permission = 2	
	write and execute (1+2) = 3	
	read permission = 4	
	read and execute (4+1) = 5	
	read and write (4+2) = 6	
	read, write and execute (4+2+1) = 7	
	Type Two u = owner, g = group, a = others r = read, w = write, x = execute	chmod a+rx cs1101
groups	Shows what group user belongs to	groups username
groups	groups [user]	groups ascinaine
id	Shows user identity (uid, gid etc) id [-ap] [user]	id username
Create/Edi	Create/Edit/View Files	
pico	PICO editor	pico mytext.txt
emacs	EMACS editor	emacs newlist.txt
vi	VI text editor	vi name.bat
	(when inside vi)	
	- using 'i' inserts	
	- pressing 'escape' and then ':' goes back to	

Comman d	Description(s)	Example(s)
	command mode.	
	- '/searchstring' searchs for 'searchstring' using regular expressions.	
	- ':' followed by 'w' writes	
	- ':' followed by 'wq' writes then quits	
	- ':' followed by 'q' quits.	
	- ':' followed by 'q!' quits regardless of whether changes are made.	
	- ':' followed by 'z' undos.	
cat	Concatenate and display content of file	cat manual.txt
	cat [-usvtebn] [- file]	cat manual.txt more
more	Show one screen of content	More manual.txt
less	Similar to more	
head	Show the first 10 lines of content	
tail	Show the last 10 lines of content	
Compress	ing/tarring Commands	
gzip	Compress or decompress a file	gzip -v bbs.exe
	gzip [-cdfhlLnNrtvV19] [-S suffix] [file]	gzip -d bbs.exe.gz
Search Co	mmands	
locate	Search the system using an indexed	locate tmp
	database of files.	locate tmp sort
	locate [-d path] [database=path] [help] pattern	
whereis	Locate an application	whereis bash
	whereis [-sbmu] [-SBM dirf] name	
find	Search the system without the used of	find tmp
	database, slower	find /dev –atime
Duint 1141141	Find [path-list] [predicate-list]	+30 -print
	es Command	F
pusage	Check the printer quota	pusage
lpq	Check the printer queue	lpq –Ppst815

Comman d	Description(s)	Example(s)	
	lpq [-l] [-Pprinter] [user] [job]		
lpr	Send a Document to print queue	Ipr -Ppst815 tmp.txt	
	lpr [-Pprinter] [file]	·	
lprm	Remove print request from print queue	lprm –Ppst815	
	Lprm [-] [-Pprinter] [[job #] [user]]	yourunixid	
Network C	ommands		
whois	Internet user name directory service		
	Whois [-h host] identifier		
finger	Display information about local and remote users.	finger username	
	finger [-bfhilmpqsw] [-t l h l,h] [name1 [name2]]		
Mail Comn	Mail Commands		
pine	Internet Mail and News		
message s	Display number of messages in INBOX		
Search for	Search for staff members		
staff	Provide search for a staff member's email	staff	
Stati	address, room number, tel number.	staff username	

Metacharacter	Description
*	A wild card character that matches any group of characters of any length, allowing a user to specify a large group of items with a short string. For example, to specify all the files that start with 'abc', you use abc*.
?	A wild card character that matches any single character. Thus Is ??? lists files in the current directory whose names are only three characters long, while Is ???.* lists those files with a three letter main name and any extension.
[]	A set of characters that can be matched. Thus Is [a-c]*.???

Metacharacter	Description
	lists all files that begin with a, b, or c and have a three letter extension and lpr [ad]* prints all files that begin with a or d.
\$	Indicates that the following text is the name of a shell (environment) variable whose value is to be used.
I	Separates commands to form a pipe.
<	Redirect the standard input.
>	Redirect the standard output, replace current contents.
>>	Redirect the standard output, appends to current contents.
>&	Redirect the standard output and standard error, replace current contents.
>>&	Redirect the standard output an standard error, appends to current contents.
%	Introduces a job name.
&	Place a process into the background.
()	Encloses a sequence of commands or pipes to be executed as a single command.
!	Precedes a history substitution (see "man history")
;	Separates sequences of commands (or pipes) that are on one line.
&&	Separates two sequences of commands or pipes the second of which is executed only if the first succeeds.
II	Separates two sequences of commands or pipes the second of which is executed only if the first fails.
\	Used to "quote" the following metacharacter so it it treated as a plain character, as in *.

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