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- 1) Clastering: linux can be configured to week in clusters so that muliple bysten can appear in one system to the outside world. Services can our back and forth between cluster nades. 2) Visitualisation: Can be operated by installing a vialual machine, depending
 - en backend system.

Specialised storage can be stored in network Storage interfaces like iscei fibre channels and intiband.

Real time computing: tineur can be Contigued as RTL, where high privily process can expect fact, predictable, home: défault location for users home directories.

bin: standard sub directory of scot directory. It contains the executables programs that must be available to attain minimal functionality for purpose of booking.

Use: contains seub dirs which contain other files that are sunarry (lib, do 1) and source code.

<u>lib</u>: containe files that the one used by an application or command for their proper esecution.

der: contains various partitions on the file.

mkdir NewProject

cd NewProject

touch house house 2 house 3 house 4 house 5

ls house [2.5]

- 3) mkdis Newforoject

 ed Newforoject

 touch house {2.5}

 ts house {2.5}

 Chmod 755 house {2.5}
 - 4). 99* finds att highlights letter 'g' in the file content
 - *: Zero or more occurances of preceding character or viegen.
 - * : xero or more occurence of any wings character.

- d) [^a-zA-z]: match all strings that contain a non-letter.
- (e) [Pqv]: matches any one set of character. \$ grep "New[pqv]". filenam - new pr New q, New v.
- f) 18: matches all empty line.
- 5) 8 features of linux Os are:
 - · Portability supports différent types of hardware.

and 490 patents ped plenoman.

- Application support: It has its own security orepositions from where users can download and install many applications
 - · File system: provider hierarchical files voystem in which files and directories are arranged.
- Supports oustonnised kuyboard. As obs obsed mosldwide hener supports diff language keyboard.

- · live CD/USB: Almost all linux distres provide live CD/USB so that users can hun/try it muthent installing.
- Elevistics and authorisation.
- · Multitashing: Variable functions can be performed commutaneously by dividing CPV time intelligently
- Open Source : (6) Source code for lines in fuely available to all and is community base der project.
- 6) a). In sed -e option courses the next string to be interpreted as an editing instauctions:

sed -e 1/19/d' Stilename.

All the standard was

-> operate on text contained in Filename

Donblow King

in confer your wi

Using I (newlner)

\$ seq 6/ sed 11d

3d,

b) sed /student/d'/student-lat

6 b)) sed-i /student/d' student.let

") sed -n '/student/!p' student.lst