

Filesystem and shell

Scripting and Computer Environment - Lecture 1

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Contents

- 1 Introduction to filesystem
 - About files / directories
 - Working with files / directories

- 2 Introduction to shell
 - Shell commands



About files / directories

- What is file?



About files / directories

- What is file?
- What is directory?



About files / directories

- What is file?
- What is directory?
- Windows Drives



About files / directories

- What is file?
- What is directory?
- Windows Drives
- Linux root



About files / directories

- What is file?
- What is directory?
- Windows Drives
- Linux root
- Path
 - Absolute path



About files / directories

- What is file?
- What is directory?
- Windows Drives
- Linux root
- Path
 - Absolute path
 - Relative path



Working with files / directories

- Creating / Editing / Deleting simple text files using GUI editor



Working with files / directories

- Creating / Editing / Deleting simple text files using GUI editor
- Cut / Copy / Paste text



Working with files / directories

- Creating / Editing / Deleting simple text files using GUI editor
- Cut / Copy / Paste text
- Creating / Deleting / Moving directories



Working with files / directories

- Creating / Editing / Deleting simple text files using GUI editor
- Cut / Copy / Paste text
- Creating / Deleting / Moving directories
- Information of file size / folder size



Working with files / directories

- Creating / Editing / Deleting simple text files using GUI editor
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- Creating / Deleting / Moving directories
- Information of file size / folder size
- Zipping files, Creating .zip, .tar, .tar.gz, .tar.bz2



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- Explain storage units like bits, bytes, nibble, KB, MB, GB



Working with files / directories

- Creating / Editing / Deleting simple text files using GUI editor
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- Explain storage units like bits, bytes, nibble, KB, MB, GB
- Data transfer units bits/sec and storage device specication units.



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Shell commands - 1

- `ls`, `ls -l`, `ls -a`



Shell commands - 1

- `ls`, `ls -l`, `ls -a`
- `mkdir`, `mkdir -p`



Shell commands - 1

- `ls, ls -l, ls -a`
- `mkdir, mkdir -p`
- `rmdir`



Shell commands - 1

- `ls`, `ls -l`, `ls -a`
- `mkdir`, `mkdir -p`
- `rmdir`
- `touch`



Shell commands - 1

- `ls`, `ls -l`, `ls -a`
- `mkdir`, `mkdir -p`
- `rmdir`
- `touch`
- `rm`, `rm -r`, `rm -f`



Shell commands - 1

- `ls`, `ls -l`, `ls -a`
- `mkdir`, `mkdir -p`
- `rmdir`
- `touch`
- `rm`, `rm -r`, `rm -f`
- `cd`



Shell commands - 1

- `ls, ls -l, ls -a`
- `mkdir, mkdir -p`
- `rmdir`
- `touch`
- `rm, rm -r, rm -f`
- `cd`
- `echo`



Shell commands - 1

- `ls`, `ls -l`, `ls -a`
- `mkdir`, `mkdir -p`
- `rmdir`
- `touch`
- `rm`, `rm -r`, `rm -f`
- `cd`
- `echo`
- `clear`



Shell commands - 2

- `gedit` (Not shell command, GUI editor)



Shell commands - 2

- `gedit` (Not shell command, GUI editor)
- `tree`



Shell commands - 2

- `gedit` (Not shell command, GUI editor)
- `tree`
- `mv`



Shell commands - 2

- `gedit` (Not shell command, GUI editor)
- `tree`
- `mv`
- `cp`, `cp -r`, `cp -u`, `cp -p`



Shell commands - 2

- gedit (Not shell command, GUI editor)
- tree
- mv
- cp, cp -r, cp -u, cp -p
- cat



Shell commands - 2

- gedit (Not shell command, GUI editor)
- tree
- mv
- cp, cp -r, cp -u, cp -p
- cat
- more



Shell commands - 2

- gedit (Not shell command, GUI editor)
- tree
- mv
- cp, cp -r, cp -u, cp -p
- cat
- more
- less



Shell commands - 2

- gedit (Not shell command, GUI editor)
- tree
- mv
- cp, cp -r, cp -u, cp -p
- cat
- more
- less
- head, head -<number>



Shell commands - 2

- gedit (Not shell command, GUI editor)
- tree
- mv
- cp, cp -r, cp -u, cp -p
- cat
- more
- less
- head, head -<number>
- tail, tail -<number>



Shell commands - 2

- gedit (Not shell command, GUI editor)
- tree
- mv
- cp, cp -r, cp -u, cp -p
- cat
- more
- less
- head, head -<number>
- tail, tail -<number>
- wc



Shell commands - 3

- `du`, `du -s`, `du -h`, `du -sh`



Shell commands - 3

- `du`, `du -s`, `du -h`, `du -sh`
- `tar cvf` `tar xvf`



Shell commands - 3

- `du`, `du -s`, `du -h`, `du -sh`
- `tar cvf` `tar xvf`
- `gzip`



Shell commands - 3

- `du`, `du -s`, `du -h`, `du -sh`
- `tar cvf` `tar xvf`
- `gzip`
- `gunzip`



Shell commands - 3

- `du`, `du -s`, `du -h`, `du -sh`
- `tar cvf` `tar xvf`
- `gzip`
- `gunzip`
- `bzip2`



Shell commands - 3

- `du`, `du -s`, `du -h`, `du -sh`
- `tar cvf` `tar xvf`
- `gzip`
- `gunzip`
- `bzip2`
- `bunzip2`



Shell commands - 3

- `du`, `du -s`, `du -h`, `du -sh`
- `tar cvf` `tar xvf`
- `gzip`
- `gunzip`
- `bzip2`
- `bunzip2`
- `zip`



Shell commands - 3

- `du`, `du -s`, `du -h`, `du -sh`
- `tar cvf` `tar xvf`
- `gzip`
- `gunzip`
- `bzip2`
- `bunzip2`
- `zip`
- `unzip`



Shell commands - 4

- `which`



Shell commands - 4

- which
- whereis



Shell commands - 4

- which
- whereis
- apropos



Shell commands - 4

- `which`
- `whereis`
- `apropos`
- `man`, `man -aK`



Shell commands - 4

- `which`
- `whereis`
- `apropos`
- `man`, `man -aK`
- `find`



Shell commands - 4

- `which`
- `whereis`
- `apropos`
- `man`, `man -aK`
- `find`
- `locate`



Shell commands - 4

- `which`
- `whereis`
- `apropos`
- `man`, `man -aK`
- `find`
- `locate`
- `grep`, `grep -v`, `grep -A<n>`, `grep -B<n>`



Shell commands - 4

- `which`
- `whereis`
- `apropos`
- `man`, `man -aK`
- `find`
- `locate`
- `grep`, `grep -v`, `grep -A<n>`, `grep -B<n>`
- `cut`



Shell commands - 5

• W



Shell commands - 5

- w
- who



Shell commands - 5

- w
- who
- whoami



Shell commands - 5

- `w`
- `who`
- `whoami`
- `/sbin/ifconfig`



Shell commands - 5

- `w`
- `who`
- `whoami`
- `/sbin/ifconfig`
- `ping`



Shell commands - 5

- `w`
- `who`
- `whoami`
- `/sbin/ifconfig`
- `ping`
- `ln, ln -s`



Shell commands - 5

- `w`
- `who`
- `whoami`
- `/sbin/ifconfig`
- `ping`
- `ln, ln -s`
- `free, free -m`



Shell commands - 5

- `w`
- `who`
- `whoami`
- `/sbin/ifconfig`
- `ping`
- `ln, ln -s`
- `free, free -m`
- `script`



Shell commands - 5

- `w`
- `who`
- `whoami`
- `/sbin/ifconfig`
- `ping`
- `ln, ln -s`
- `free, free -m`
- `script`
- `df, df -h`



Shell commands - 5

- `w`
- `who`
- `whoami`
- `/sbin/ifconfig`
- `ping`
- `ln, ln -s`
- `free, free -m`
- `script`
- `df, df -h`
- `chmod`

