

MAN page

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|---------|--|
| man -a | useradd command in all sections |
| man -k | searching passwd keyword in passwd man page from section 8 |
| grep 8 | |
| man 8 | showing useradd command from section 8 |
| useradd | |
| man man | showing man command help |

Hard links, soft links, finding files

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|---|--|
| ln /etc/hosts | create hard links myhosts |
| ln -s /etc/hosts/ | create symbolic links myhosts |
| find /etc -name hosts | Find in /etc files with exact name "hosts" |
| find /etc -name "hosts" | Find in /etc files with "hosts" in its name |
| find /etc -name "hosts" -exec cp {} /etc/test/ \; | Find in /etc file with "hosts" in name and copy it to /etc/test |
| find /etc -size +100K 2>/dev/null | File in /etc files over 100Kb and send error to /dev/null |
| grep student | Find in /etc files with "student" in content |
| grep -l student | List only the directories /etc/* 2>/dev/null |
| find /etc -exec grep -l student {} \; | Find all directories and sub with files containing student in content and copy the result to /find/content |

Administrative Tasks

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|---------|--|
| visudo | Edit <i>sudo</i> configuration file |
| chvt t | Change virtual terminal 5 |
| /etc/s- | Secure console file, delete 1 will no longer have access to that console |
| ecu- | |
| retty | |

Input Output Redirection

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|--------------|-----------------------------|
| > | overwrite |
| < | send into command |
| >> | append |
| << | append into command or file |
| 2> /dev/null | redirect error to null file |

Text Processing Utilities

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|---|--|
| cut -d : -f 3 /etc/passwd | Display third column using ":" delimiter in /etc/passwd |
| cut -d : -f 1 /etc/passwd sort tr [:lowercase:] [:uppercase:] | Display all username in /etc/passwd and translate all lowercase to uppercase |
| awk -F : '{ print \$1 }' /etc/passwd | Display first column using ":" field delimiter (-F) |
| sed -i -e '10d' grepfile1 | Delete (10d) interactively (-i) using edit option(-e) the tenth line |

Archive, Backup, Compress, Uncompress

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|---|---|
| tar cvf name.tar /dir | Create name.tar file from /dir |
| tar -xvzf archive.tar.gzip -C /target/dir | Extract archive.tar.gzip to /target/dir |

Create, Delete, Copy, Move

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|---------------------------|---|
| ls -al /etc | list all files (-a) with all info (-l) in /etc |
| ls -r | list sub-directories (-r) |
| cp -R /etc/hosts ~/files/ | copy all (-R) in hosts to home/files/ |
| mkdir -p /etc/photos | make directory etc and sub-directory photos |
| mv /tmp/test ~ | move test to home directory |
| rm -rf | remove recursively and ignore non existent file |

head, tail,

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|---------------------------|--------------------------------------|
| head -n 5 /etc/passwd | Display first 5 lines in /etc/passwd |
| tail -f /var/log/messages | Display the recent system messages |

Regular expressions

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|-------------|---|----------|-------------------------------|
| <i>note</i> | Use with sed, vim, awk, grep | | |
| ^ | Start of a string | ^abc | abc, abcdef, abc123 |
| \$ | End of a string | abc\$ | abc,123abc,c,fdabc |
| | Alteration | 1 8 | 1,8 |
| {...} | Exact quantity | ab{2}c | abbc |
| [...] | Explicit set of character to match | a[bB]c | abc,aBc |
| * | Null or more of the preceding character | ab*c | ac,abc,abb,bbc |
| (...) | Group of character | (123){3} | 123123123 |
| + | One or more of preceding character | ab+c | abc,abbbbc |
| ? | Null or 1 of the preceding character | ab?c | abc, ac |
| . | Any single character | | |
| \s | Whitespaces | * | Zero or more of any character |

