Cheatography

| Bash Commands - ISM 4323 Cheat Sheet | |
|--|---|
| by uhndreams via cheatography.com/178879/cs/3726 | 9 |

| Bash | | |
|---|---|--|
| File system Root | / - top of file hierarchy | |
| Path | either absolute or relative | |
| pwd | present working directory | |
| cd | change directory | |
| ~ | indicates home directory | |
| | moving up to folder above current | |
| | current folder | |
| | | |
| ls | lists all | |
| ls -F | lists only folders | |
| ls -l | show details | |
| ls -a | show hidden files | |
| ls -al | show hidden files + details | |
| mkdir | creates folders | |
| rmdir | removes folders | |
| ср | сору | |
| mv | move; can also be used to rename a file | |
| rm | remove command | |
| -i | adds interactivity; warning if will delete an existing file | |
| UNIX file systems are CASE SENSITIVE Folders are directories Copying and Moving Files General syntax - <i><command/> <source/></i> <i><target></target></i> Examples - <i>cp hello.txt hello_world.txt</i> Notes on cp & mv 'cp' is only top level files, does not get what is in folders only folders on top 'mv' is always recursive 'cp -r' - copies a directory including all its content Invasive Commands 'cp', 'mv', and 'rm' - no recovery possible | | |
| | | |

File Permissions Is -al 10 charactesr; (1)file type + (9)file permissions rwx read, write, execute owner, order which permissions are

diaployed

~ ~ ~ . . .

| group, world | displayed |
|-----------------|-------------------------------------|
| r | 4 - indicates read permission |
| W | 2 - indicates write permission |
| Х | 1 - indicates execute permission |
| r-x | read and execute (5) |
| 755 | rwe-er-er |

Conditionals IF/THEN if [<condition>] then <commands> fi fi terminates IF/THEN if_[_<equation>_] is equal to (integer) -eq is not equal to (integer) -ne greater than (integer) -gt -lt less than (integer) greater than or equal to -ge (integer) less than or equal to (integer) -le is equal to (string) = != is not equal to (string) alternative to nested-if ELIF statements read reads user input bash <diremember to put variables at rectory> end if variables are needed <variablefor command s>

Shell Scripting

| grep <wo- rd></wo- | print lines matching a pattern |
|---------------------------------------|---|
| redirect operator | (>) send output to file instead of displaying on screen |
| append operator | (>>) appends data instead of displaying on screen |
| cut -d" " | cut empty columns |
| cut -d, - f1,2,4 | cuts out only columns 1,2,4 |
| sort | sorts alphabetically |
| sort -n | sorts numerically |
| uniq | removes duplicate lines from a text file; MUST BE SORTED FORT |
| tr "abc" "- xyz" | subsitute <v1> to <v2></v2></v1> |
| tr "[:lowe- r:]""[:uppe- r:]" | specify all lowercase letters to turn uppercase |
| new variable | supply variable name and its value; no spaces inbetween |
| variab- le1=2 | valid; no spaces between equals |
| \$((<equat- ion>))</equat- | arithmetic expansion |
| echo \$ <v- ariable></v- | prints <variable value=""></variable> |
| | does not affect use |
| | used literally, does not call variables |
| \$USER | lists current user |
| \$PWD | prints present working directory |
| \$HOME | home directory of current user |
| \$RANDOM | o and 32767 |
| sleep # | sleeps for # seconds |

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| find | |
|---|--|
| find | search for files |
| find [where to start searching from][exp- ression to fine][-op- tions][what to find] | takes 2 arguements where to search & what to find; wildcards can be used |
| find /home -user alice -empty | finds files in the home folder from alice which are empty |
| Wildcards & Examples | |

| Wildcards | |
|-----------------------------|--|
| ? | matches a single character |
| * | matches any zero or more characters |
| [xy] | matches a range of letters or numbers |
| Examples | |
| ls | lists all files + extensions |
| ls *.doc | lists only files with .doc extensions |
| re - r <target></target> | removes folders with content; be very careful |
| | |

While Loops

| while | run until a specific conditions is |
|--------|------------------------------------|
| | met |
| CTRL+C | to close script |

| vim - file editor | |
|---------------------|----------------------------|
| vim "filena- me" | starts up in command mode |
| i | insert mode - start typing |
| :w | write |
| :q | quit vim type |
| :wp | save and quit |
| :q! | quit w/o saving |

By uhndreams

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| vim | - file | editor | (cont) |
|-----|--------|--------|--------|
|-----|--------|--------|--------|

| /word | search towards end of file for first occurance of word | |
|---|--|---|
| ? word | search towards beginning of the file for the word | |
| n | search for next occurance | |
| Ν | search for previous occurance | |
| less | view fi time | le contents one screen at a |
| head | top of need | file to see if it is the one you |
| head -3 | show | the first three results |
| tail | bottom | n of file to see new log entries |
| -n | defaul | t output of ten line |
| -n# | changes number of lines outputed | |
| | to be used with head or tail | |
| -n & - n# | to be ι | used with head or tail |
| | to be u | used with head or tail |
| n# | yellow | used with head or tail dog updater modifier - ge modifier |
| n# YUM | yellow packa | dog updater modifier - ge modifier |
| n# YUM YUM | yellow packa | dog updater modifier - ge modifier |
| n# YUM YUM | yellow packa | dog updater modifier - ge modifier |
| n# YUM YUM | yellow packa | dog updater modifier - ge modifier |
| n# YUM YUM su chan | yellow packa | dog updater modifier - ge modifier > # updates permissions on files |
| n# YUM YUM su chan chmod | yellow packa | dog updater modifier - ge modifier > # updates permissions on files and folders |
| n# YUM YUM su chan chmod chmod su | yellow packa ges \$ - | dog updater modifier - ge modifier > # updates permissions on files and folders grants super user privileges |

| Encryption | |
|-----------------------------------|---|
| aescrypt | secret key encryption |
| -е | encrypt the file |
| -d | decrypt the file |
| -p <pa- ssword></pa- | password to use; if omitted, the command will prompt the user |
| -o <filen- ame></filen- | output file |
| md5sum | easy way to generate a checksum |
| #! /bin/bash | turns list of commands into one command // no need for bash |

For Loops for var in <item/dirhow to format for ectory> do <commaloops nds> done Sequences {#..#} #..# first # starting value .. second# ending value #1..#2..#3 #3 is increment between each number series

Published 22nd February, 2023. Last updated 3rd May, 2023. Page 2 of 2.

change group

to dave

sales_grp

changes owner of README

changes the group that can

access README to

chgrp

chgrp

chown dave

README

sales_grp

README

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