Home » Cheatsheet **Bash Cheat Sheet** Updated on 22 January 2024 by Huzaif Sayyed The command line interface, with its powerful and versatile features, is an essential tool for any developer, system administrator, or power user. Among the various command line interfaces available, Bash (Bourne Again SHell) stands out as one of the most widely used and powerful shells. Whether you're a beginner or an experienced user, having a Bash cheat sheet can help you navigate and leverage its capabilities effectively. In this blog post, we'll provide you with a handy Bash cheat sheet to enhance your bash command scripting. Hello World! Bash Program -Links — **Bash Official Doc** Create a hello.sh #!/bin/bash **Shell Scripting Cheatsheet** echo "Hello World" **Download Bash Cheat Sheet PDF** Run the bash file using ./hello.sh or sh hello.sh or bash hello.sh **★** Want More Cheatsheet Navigating the File System Change Directory — List Contents cd [directory] ls [options] [directory] Present Working Directory ————— Create Directory mkdir [directory] pwd Remove Directory (and its contents) ——— rm -r [directory] **File Operations** Create Empty File H3 Inside Cheatsheet Item touch [filename] Move/Rename File ———— cp [source] [destination] mv [oldname] [newname] Remove/Delete File ----rm [filename] **Text Processing** View File Page by Page ———— cat [filename] less [filename] Replace String in Files sed 's/old-text/new-text/' [filename] grep [pattern] [filename] File Permissions Change Ownership chown [user:group] [filename] chmod [permissions] [filename] **System Information** Display Disk Usage ———— df -h uname -a Display Memory Usage ———— free -m **Process Management** Kill Process kill [PID] ps aux command & Variables and Environment Display Variable ———— Set Variable —— variable_name=value echo \$variable_name Environment Variables export VARIABLE_NAME=value Shell Scripting Shebang (Script Header) ———— Conditional Statements ——— #!/bin/bash if [condition]; then # commands fi The shebang (#!) is a line at the beginning of a script specifying the interpreter to execute it. Looping (for loop)

for i in {1..5}; do # commands done File Archives and Compression Create Tar Archive Extract Tar Archive — tar -cvf archive.tar [files/directories] tar -xvf archive.tar Compress with gzip ———— Decompress gzip —— gzip [filename] gunzip [filename.gz] **Network Operations** Check Network Connectivity — Trace Route ping [hostname/IP] traceroute [hostname/IP]

Vim Editor (Advanced) ———

View System Logs ————

Bring Job to Foreground ————

Set Temporary Environment Variable ————

Repeat Last Command —————

Delete User —

sudo userdel [username]

Default Permissions -

Congratulations on reaching the end of this Bash Programming Language Cheatsheet! This resource is designed to make your coding experience easy and efficient. Feel free to bookmark this page or download the PDF for future reference. Happy Bash Programming

chmod [permissions] [filename]

Shell Scripting Cheat Sheet >

cat /var/log/syslog

fg [job ID]

VARNAME=value command

1.1

Useful commands within vim: :wq (Save and Quit), :q! (Quit

vim [filename]

without saving)

Transfer Files (SCP)

Nano Editor ————

Useful commands within nano: Ctrl + X (Exit), Ctrl + O

Suspend Job —

List All Environment Variables

Repeat Command by Number ————

Environment Variables

Command History

User Management

sudo adduser [username]

sudo passwd [username]

Change User Password —

File Permissions (Advanced)

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Access Control Lists (ACL)

setfacl -m u:[user]:rwx [filename]

Commanding!

Cheatsheet

JavaScript Cheat Sheet

Add User —

Text Editors

nano [filename]

(Save), Ctrl + W (Search)

System Logs

dmesg | tail

Job Control

jobs

Ctrl + Z

env

history

!123

scp [source] [user@destination]:[path]