

| Expansion                       | su / sudo (cont)                                | Alt commands (cont)                          |
|---------------------------------|-------------------------------------------------|----------------------------------------------|
| ls \$(which cp)                 | Command -ll                                     | fdisk -l                                     |
| ls `which cp`                   | expansion Which commands I'm allowed to execute | List partition tables                        |
| mkdir {2017...2 020 }-{ 01-12}  | Brace visudo                                    | dd bs=4M if=inp ut.iso of=/dev/sd            |
| echo text ~/.txt {a,b} \$USER   | expansion Edit /etc/sudoers file. Example       | sync                                         |
| echo "text ~/.txt {a,b} \$USER" | Variable teralco ALL=(root) NOPASSWD: /etc/i    | burniso in device                            |
| echo 'text ~/.txt {a,b} \$USER' | expansion ss                                    |                                              |
|                                 | expansion " teralco ALL=(j boss) NOPASSWD: /bin | Searches                                     |
|                                 | expansion ' UFW                                 | find path -name *.log -type f -mti           |
|                                 | expansion ufw status [verbose numbered]         | Find and delete files older than 5 days      |
|                                 | (NONE)                                          | find path -type f -printf " %s \t%           |
|                                 | Show status and rules                           | 10                                           |
|                                 | ufw default deny incoming                       | Find the 10 biggest files                    |
|                                 | ufw default allow outgoing                      | grep -rfile 'pattern' path                   |
|                                 | Deny all incoming traffic by default            | Find files with pattern content              |
|                                 | Allow all outgoing traffic by default           | du -cks path/*   sort -rn   head -           |
|                                 | ufw [allow deny] from IP to [any i nte          | Find biggest dirs                            |
|                                 | ORT                                             | du -sh path                                  |
|                                 | Full allow/deny rule                            | Dir size                                     |
|                                 | ufw [allow deny] servic e_name                  |                                              |
|                                 | Allow/deny a service (ssh www ftp ...)          | Permissions                                  |
|                                 | ufw [enable disable]                            | chmod [u g o ] [+ -  =] [rwx] dir_f          |
|                                 | ufw delete [rule number]                        | ile                                          |
|                                 |                                                 | Change permissions                           |
|                                 | Alt commands                                    | chmod u[+ -]s file                           |
|                                 | /var/log/ messages & /var/log/ syslog           | Set uid. File is always exec as owner user   |
|                                 | System log files                                | chmod g[+ -]s dir                            |
|                                 | script file                                     | Set gid. New files in folder are always      |
|                                 | Record session commands in file                 | owned by folder owner                        |
|                                 | nohup command &                                 | chmod [+ -]t dir                             |
|                                 | Keep command running even after close session   | Sticky Bit. Files in dir can only be renamed |
|                                 | tar -Jxvf file.tar.xz [-C dest_f older          | or removed by owner or root                  |
|                                 | Extract xz (higher compress ratio)              | umask xxxx                                   |
|                                 | zip -FF x.zip --out Y.zip && unzip Y.z          | Set default permissions to dirs              |
|                                 | Merge zip files (x.zip, x.z01, x.z02)           |                                              |
|                                 | ps aux --sort -rss                              |                                              |
|                                 | Higher memory consumption processes             |                                              |

### Enviroment

|                                                     |                                                  |
|-----------------------------------------------------|--------------------------------------------------|
| <code>/etc/profile</code>                           | Global env config files                          |
| <code>/etc/bash.bashrc</code>                       |                                                  |
| <code>./bashrc</code>                               | User env config file                             |
| <code>./profile</code>                              |                                                  |
| <code>printenv</code>                               | Print defined env vars                           |
| <code>alias</code>                                  | Show defined aliases                             |
| <code>export VAR</code>                             | Make a VAR available to child process            |
| <code>source script</code><br><code>. script</code> | Load a file into current script or shell session |

### Network

|                                                   |                                                    |
|---------------------------------------------------|----------------------------------------------------|
| <code>ip addr</code>                              | Show ips                                           |
| <code>ifup ifdown interface _name</code>          | Up or down an interface                            |
| <code>/etc/network/interfaces</code>              | File interfaces are defined                        |
| <code>hostnamectl [set-h ostname hostname]</code> | Manage hostname (/etc/hostname) without restarting |
| <code>netstat -tuln</code>                        | All tcp and udp listening ports                    |
| <code>ss -tuln</code>                             | All tcp and udp listening ports                    |
| <code>nc -vz host port</code>                     | Scan port in host                                  |

### SSH

|                                                                       |                                                                                                                               |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <code>ssh-keygen [-f /etc/ssh/ssh_host_rsa_key] -t rsa -b 4096</code> | Generate ssh rsa key. By default <code>~/.ssh/id_rsa</code>                                                                   |
| <code>ssh-copy-id [-i ~/.ssh/mykey] user@host</code>                  | Copy ssh key in remote host ( <code>~/.ssh/authorized_keys</code> ). By default <code>~/.ssh/id_rsa</code> .                  |
| <code>ssh user@host command</code>                                    | Exec command in host                                                                                                          |
| <code>ssh -J hostA hostB</code>                                       | Connect to hostB through hostA (Jumping). Identification in localhost. Can use <b>ProxyJump</b> in <code>~/.ssh/config</code> |
| <code>ssh -D port -fCqN user@host</code>                              | Proxy socket (HTTP and HTTPS traffic) through port.                                                                           |
| <code>ssh -nNT -L 9000:remote_server:80 user@host</code>              | Tunneling (Local port forwarding). Map <code>remote_server:80</code> into <code>localhost:9000</code> through host            |
| <code>ssh -nNT -R 9000:localhost:3000 user@host</code>                | Tunneling (Remote port forwarding). Map <code>localhost:3000</code> into <code>host:9000</code>                               |

