

General

<code>lsb_release -a</code>	Linux version
<code>alias</code>	Show aliases attached to shell

Locations

<code>/var/www</code>	Server www sites / pointers to
<code>/var/log</code>	System / auth / php etc. logs
<code>/var/log/nginx/</code>	NGINX access / error logs
<code>~/.ssh</code>	SSH config
<code>/etc/php</code>	PHP version installed

Files

<code>echo "xyz" > /somewhere/file.log</code>	Write xyz to given file
<code>touch myfile.txt</code>	Create a file
<code>nano myfile.txt</code>	Edit myfile.txt with Nano
<code>rm -rf /node_modules</code>	Remove node_modules recursively
<code>grep -r 'string to search' directory/to/search</code>	Search for string in files

File system

<code>ls -al -S</code>	Directory list in file size order
<code>ls -alt</code>	directory list in time order
<code>lsblk</code>	Display volumes / partitions
<code>df -i</code>	inode usage
<code>df -hT</code>	File system memory usage
<code>find / -size +20M</code>	Find large files
<code>find / -type d -name 'htdocs'</code>	Find folder
<code>find / -name 'filename.html'</code>	Find file
<code>file -s /dev/xvd*</code>	File system / partition types
<code>growpart /dev/xvda 1</code>	Grow partition to newly added space
<code>resize2fs /dev/xvda1</code>	Resize partition to new allocated size

Permissions

<code>chown -R root:www /var/www</code>	Change ownership of /var/www to root user:www group
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Networking

<code>ping -c 4 8.8.8.8</code>	Ping (Google) 4 times
<code>ip addr</code>	Network interfaces enabled?
<code>sudo nano /etc/network/interfaces</code>	Network config
<code>route -n</code>	Show kernel IP routing table
<code>sudo ifdown --force eth0</code>	Network interface off (force optional)
<code>sudo ifup --force eth0</code>	Network interface on (force optional)

<https://upcloud.com/community/tutorials/troubleshoot-network-connectivity-linux-server/>

PHP

<code>php -m</code>	List installed modules / extensions
<code>php --version</code>	PHP version on CLI

Weblish

<code>CTRL A, Esc</code>	Enter scroll mode (Esc to exit)
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User

<code>whoami</code>	Output current user context to CLI
<code>groups</code>	Show which groups user belongs to
<code>adduser ubuntu www-data</code>	Add user ubuntu to group www-data

GIT

<code>git remote --verbose</code>	Show remotes for currently checked out repo
<code>git branch</code>	List local branches

Services

<code>sudo service /etc/init.d/mysqld restart</code>	Restart service (full path)
<code>sudo service nginx restart</code>	Restart service (short)



By **jrcoughton**
cheatography.com/jrcoughton/

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Services (cont)

```
sudo service --status-all
```

Service status + running / - stopped / ? services without status
command

```
sudo netstat -tulpn
```

Display port attachments

```
sudo fuser -k 80/tcp
```

Kill everything on given port (i.e. release 80 for NGINX restart)

Process and jobs

jobs List of background jobs

jobs -l List with PID

fg Bring most recent to front

fg %2 Switch to specific job in list

If you ctrl-z out of a command line program, such as man, it may leave a running process in the background

[3]+ Stopped man

3 = Number of stopped jobs in background
man = program that was stopped

Find and kill it

Package management

sudo apt-get autoremove Delete unused packages

sudo apt-get purge php7.* Remove package

apt list --installed | grep your-package-name List installed packages

apt-get install your-package-name Install package

apt-get update Update packages info about package from repo

apt-get upgrade Update all packages

apt-get install --only-upgrade <package-name> <anotherpackagename> Update specific package

add-apt-repository name-of-your-repo-here Add apt repo

apt-cache search package-name-here Search for packages

apt-get = older version of apt

MYSQL

```
apt-get install mysql-server
```

Install mysql

```
mysql_secure_installation
```

Secure installation

```
mysql -u your-username -p
```

Connect on CLI

```
CREATE DATABASE database_name_cant_use_hyphens_us-
e_underscores CHARACTER SET utf8mb4 COLLATE
utf8mb4_unicode_ci;
```

Create DB

```
SHOW TABLE STATUS;
```

Show collation of tables

```
ALTER TABLE <some_table> convert to CHARACTER SET
utf8mb4 COLLATE utf8mb4_unicode_ci;
```

Alter table collation

```
CREATE USER 'newuser'@'localhost' IDENTIFIED BY
'a_password_here';
```

Create user

```
GRANT ALL PRIVILEGES ON db_name_here . * TO
'newuser'@'localhost';
```

Grant priviledges

```
FLUSH PRIVILEGES;
```

Reload priviledges

Follow <https://stackoverflow.com/a/42742610> Option 1 during mysql_secure_installation if required

