General

lsb_release -a	Linux version
alias	Show aliases attached to shell

Locations

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

Files

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

File system

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

Permissions

```
chown -R root:www /var/www
```
Change ownership of /var/www to root user:www group

Networking

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

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

PHP

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

Weblish

CTRL A, Esc	Enter scroll mode (Esc to exit)

User

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

GIT

git remote --verbose	Show remotes for currently checked out repo
git branch	List local branches

Services

```
sudo service /etc/init.d/mysqld restart
```
Restart service (full path)

```
sudo service nginx restart
```
Restart service (short)

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 <packagename> <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_use_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