

Quick Reference

Ubuntu Documentation

- Ubuntu Server Guide – <https://help.ubuntu.com/16.04/serverguide>
- Apache2 – <https://help.ubuntu.com/16.04/serverguide/httpd.html>
- MySQL – <https://help.ubuntu.com/16.04/serverguide/mysql.html>
- PHP – <https://help.ubuntu.com/16.04/serverguide/php.html>
- Ubuntu Community Help Wiki – <https://help.ubuntu.com/community>
- SSH – <https://help.ubuntu.com/community/SSH>
- Lost Password – <https://help.ubuntu.com/community/LostPassword>

Forwarded Ports

Name	Host Port	Guest Port
Apache	8080	80
MySQL	9306	3306
SSH	2222	22
MailCatcher	1080	1080

Hosts Files

- Mac – /etc/hosts
- Windows – %SystemRoot%\system32\drivers\etc\hosts

Commands

Files and Directories

- `cd directory` – change a directory
- `mkdir directory` – create a directory
- `rmdir directory` – remove a directory
- `touch file` – create an empty file or update an existing file's modification date
- `mv` – move a file
- `rm` – remove a file
- `cp` – copy a file

- `pwd` – show the name of the current working directory
- `ls` – list the directory contents
- `ls -la` – verbosely display the file and directory information
- `find directory` – search for files in a directory hierarchy
- `cat` – concatenate the files and display
- `head` – display the beginning of a file
- `tail` – display the end of a file
- `less` – page through the contents of a file
- `grep` – display lines matching a pattern
 - `grep -i text` – case insensitive search for text
 - `grep -Ri text directory` – recursively search directories for text
- `nano filename` – small text editor
 - `ctrl+g` – help
 - `ctrl+k` – cut line
 - `ctrl+u` – paste line
 - `ctrl+v` – next page
 - `ctrl+y` – previous page
 - `ctrl+w` – search
 - `ctrl+x` – exit
- `sudoedit filename` – edit a file as root

Users and Permissions

- `id` – display the user and group information
- `usermod -a -G groupname username` – add a user to a group
- `chown` – change the file owner and group
- `chmod` – change the permissions of a file
- `sudo command` – run programs with the privileges of another user
- `su` – use the shell of another user (substitute user identity)
 - exit to leave
- `adduser` – add the Linux user

Session and Shell

- `logout` – gracefully close the connection
- `exit` – terminate the current process
- `ssh` – OpenSSH SSH client for remote logins
 - `ssh -p2222 username@sandbox.dev` – connect to sandbox.dev as the username on port 2222
- `ssh-keygen -t rsa -C "user@example.com"` – generate the SSH public and private key

System

- `man command` – read the manual for a command
- `getent` – get entries from the name service switch libraries
 - `getent group groupname` – show the users in a group
- `ps aux` – report a snapshot of the currently running processes
- `apt-get` – APT package handling utility
 - `apt-get update` – resynchronize the package indexes
 - `apt-get upgrade` – install the newest versions of all installed packages
 - `apt-get install package` – install a particular package
 - `apt-get remove package` – remove a particular package
- `mount` – mount a file system
 - `mount /dev/cdrom /media/cdrom` – mount a CD-ROM drive to /media/cdrom
- `service servicename start/stop/restart/reload` – manage services, such as
 - `apache2`
 - `mysql`
 - `sshd`
 - `mailcatcher`
- `reboot` – reboot the computer
- `shutdown` – shut down the operating system
 - `shutdown -h now`

Apache

- `a2ensite/a2dissite` – enable/disable Apache2 sites
- `a2enmod/a2dismod` – enable/disable Apache2 modules

PHP

- `phpenmod/phpdismod` – enable/disable PHP modules
- `phpquery` – get information on PHP module configuration

MySQL

- `mysql -uUSER -pPASSWORD DATABASE` – connect to the MySQL database

Network

- `wget URL` – download a file
- `curl URL` – perform an HTTP request, including a download

Directories

- `/dev` – device files
- `/etc` – system configuration
 - `/etc/apache2`
 - `/etc/mysql`
 - `/etc/php/7.0`
 - `/etc/ssh`
- `/home` – user home directories
- `/media` – mount points
 - `/media/cdrom`
 - `/media/sf_sandbox`
- `/tmp` – temporary files
- `/var` – variable data
 - `/var/log` – log files