

Up and Running with Linux for PHP Developers

with Jon Peck

Quick Reference

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Forwarded Ports

Name	Host Port	Guest Port
Ajenti	8000	8000
HTTP	8080	80
MySQL	9306	3306
SSH	2222	22

Host Files

Mac - /etc/hosts

Windows - %SystemRoot%\system32\drivers\etc\hosts

Commands

Files and Directories

- `mkdir directory` - create directory
- `rmdir directory` - remove directory
- `touch file` - create empty file or update existing file's modification date
- `mv` - move file
- `rm` - remove file
- `cp` - copy file
- `pwd` - show name of current working directory
- `ls` - list directory contents
 - `ls -la` - verbosely display file and directory information
- `find directory` - search for files in a directory hierarchy
- `cat` - concatenate files and display
- `head` - display beginning of file
- `tail` - display end of file
- `less` - page through 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 file as root

Users and Permissions

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

Session and Shell

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

System

- `man command` - read manual for a command
- `getent` - get entries from name service switch libraries
- `getent group groupname` - show users in a group
- `ps aux` - report snapshot of currently running processes
- `apt-get` - APT package handling utility

- `apt-get update` - resynchronize package indexes
- `apt-get upgrade` - install 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 CD-ROM drive to /media/cdrom
- `service servicename start/stop/restart/reload` - manage service
- `reboot` - reboot the computer
- `shutdown` - shutdown the operating system
 - `shutdown -h now`

Apache

- `a2ensite` / `a2dissite` - enable / disable Apache 2 sites
- `a2enmod` / `a2dismod` - enable / disable Apache 2 modules

PHP

- `php5enmod` / `php5dismod` - enable / disable PHP modules
- `php5query` - get information on PHP module configuration

MySQL

- `mysql -uUSER -pPASSWORD DATABASE` - connect to MySQL database
- `mail USERNAME@DOMAIN` - send a simple email

Network

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

Git

- `git config --global user.name "First Last"` - set name in configuration
- `git config --global user.email username@example.com` - set email in configuration
- `git clone USERNAME@HOST:REPO.git` - clone repository
- `git diff` - show changes between commits
- `git status` - show working tree status
- `git add` - add file(s) to index

- `git commit` - record changes to repository
- `git push` - update remote refs
- `git log` - show commit logs
- `git reset --hard HEAD` - discard all changes, revert to last commit
- `etckeeper commit "MESSAGE"` - store configuration changes

Directories

- `/dev` - device files
- `/etc` - system configuration
 - `/etc/apache2`
 - `/etc/exim4`
 - `/etc/mysql`
 - `/etc/php5`
 - `/etc/phpmyadmin`
 - `/etc/ssh`
- `/home` - user home directories
- `/media` - mount points
 - `/media/cdrom`
 - `/media/sf_sandbox`
- `/tmp` - temporary files
- `/var` - variable data
 - `/var/log` - log files