

# Gentoo Linux Cheat Sheet

*Essential commands for Gentoo administrators*

## Repository Sync

```
{\textcolor{green} emaint} --auto sync
emaint -a sync
emerge-webrsync
eix-sync
```

## Package Listing

```
qlist -IRv
eix --world | less
equery list --duplicates '*'
equery y firefox
```

## Install & Emerge

```
emerge -pv www-client/firefox
emerge -av www-client/firefox
emerge --ask =www-client/firefox-96.0.1
emerge --noreplace firefox
emerge -al www-client/firefox
```

## Package Removal

```
emerge --deselect www-client/firefox
emerge --pretend --depclean
emerge --ask --depclean
emerge --ask --verbose --depclean www-client/firefox
```

## System Upgrade

```
emerge -avuDU --with-bdeps=y @world
emerge --quiet --update --changed-use --deep @world
```

## Troubleshooting

```
revdep-rebuild -v
equery b `which vim`
e-file vim
equery d www-client/firefox
```

## Rebuilds

```
emerge @module-rebuild
emerge @preserved-rebuild
```

## USE Flags

```
euse -i X
equery hasuse mysql
equery uses <package>
eix --installed-with-use mysql
echo 'dev-util/cmake -qt5' >> /etc/portage/package.use
```

## Important Files

```
/etc/portage/make.conf
/etc/portage/package.use
/etc/portage/package.mask
/etc/portage/package.license
/var/lib/portage/world
```

## OpenRC Services

```
rc-update add sshd default
rc-service sshd start
rc-service sshd status
```

## Systemd Services

```
systemctl enable sshd
systemctl start sshd
systemctl status sshd
```

## Logging & Build Times

```
genlop -l | tail -n 10
genlop -t libreoffice
emerge -pU @world | genlop --pretend
watch genlop -unc
```

## Overlay Management

```
eselect repository list
eselect repository list -i
```

## Tips & Cache

```
emerge --regen
emerge -s "%python%"
qcheck vim-core
```