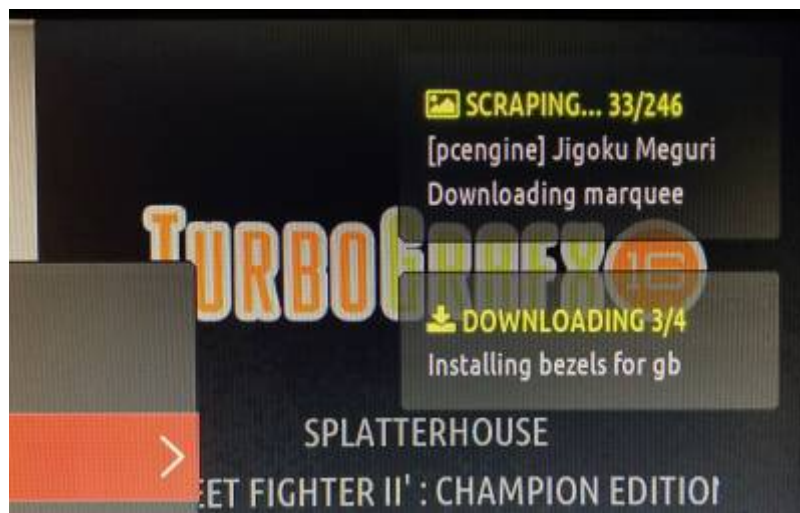


# Updates & Downloads

This menu allows you to download freely distributed content for Batocera and stay up to date! Perhaps you could use it to test games for certain systems? It can be accessed by pressing [START] from the system list or any game list in [EmulationStation](#) and navigating to **Updates & Downloads**. Here are its options:

- *Downloads*
- **Content Downloader** Starting with Batocera 5.27, you can have access to an online Batocera “store” where you can find freely distributed ROMs, bezels, music themes... and many other enhancements for your system - it relies on the powerful [pacman Package Manager](#) for easy upgrades and removals. You can update all installed content here as well!
- **Themes** In case you want to [change the look of EmulationStation](#) for your install.
- **The Bezel Project** So that you can select “The Bezel Project” in the list of [preset decorations and bezels](#).
- *Software Updates*
- **Check for Updates** Will display a pop-up window when an update becomes available for your update type (below).
- **Update Type** “Stable” for new major releases, “Beta” for the fearless; help us debug Batocera! More information on differences between stable and beta versions is [available on this page](#).
- **Start Update** Do an update right now (if available)!

When downloading new themes and bezels, or even when scraping your games, you can see a pop-up window usually on the upper right corner of your screen. You can see the progress of the download tasks: those tasks are processed in the background, which means that you can play your games while your downloads are processed in the background (there may be frame skips as files are processed)!



Although it is possible to queue multiple operations at once, it is not advised to do so as operations that may conflict with each other could cause issues. To be on the safe side, only download one thing at a time.

New major versions of Batocera are released semi-regularly, providing bug fixes, new features/systems and performance upgrades. You can choose to show a pop-up window when a new

version is available if you select **Check for Updates** in this menu.

This ends the basic introduction of updates & downloads. For those who are interested in the technical details, read on.

## Pacman

Underneath the surface, most things in updates & downloads are powered by [pacman](#), which if you've used Arch Linux before are probably familiar with. Using pacman, you can easily install/upgrade/remove your own packages, or packaged provided and hosted by the Batocera community. The exception to this is [Batocera's updater](#).



It is important to note that although this is pacman, and Arch Linux uses pacman to install *its* packages, it does not mean that you can install packages designed for Arch Linux inside of Batocera. It's the same tool, but the packages themselves must be made to be compatible with Batocera, not just Arch Linux/other distribution that uses pacman.

Obviously, packages hosted by Batocera **will never include copyrighted material** – only freeware or shareware ROMs, homebrews, free games, themes, free musical themes and so on. It's a way to easily customize your Batocera to fit better with your needs.

The advantages of using a package manager are:

- one package contains all the files needed: ROM, scraped metadata, update in the gamelist.xml...
- you can install packages directly from the Internet
- you can update them when a new release of the package is available
- you can easily remove packages that you don't want any longer
- dependencies are automatically resolved

Pacman was chosen because it is lightweight, very portable, and with Batocera's version, you can package your own pacman packages on your Batocera box **without a full dev environment**. Batocera provides its specific tools (slimmed down from ArchLinux's full pacman distribution).



From a technical perspective, a pacman package is simply a `tar.zstd` or `.tar.xz` archive - exact same format as Batocera's `boot.tar.xz`. Newer versions of the packages use `zstd` rather than `xz` as the compression algorithm, as it's much faster to decompress, especially for larger packages.

## Pacman via SSH

Batocera provides a full UI in EmulationStation to manage your pacman packages from **UPDATES & DOWNLOADS → CONTENT DOWNLOADER**. As an alternative to this, you can utilize the `batocera-store` command line tool. Here are its list of commands:

```
/usr/bin/batocera-store install <package>
/usr/bin/batocera-store remove <package>
/usr/bin/batocera-store list
/usr/bin/batocera-store list-repositories
/usr/bin/batocera-store clean
/usr/bin/batocera-store clean-all
/usr/bin/batocera-store refresh
/usr/bin/batocera-store update
```

The first two commands are self-explanatory; `list` lists all the packages you can install, and `list-repositories` lists all the repositories from where packages can be installed.

Whenever a package is downloaded and installed, pacman keeps a local cache of the package into `/userdata/system/pacman/pkg/`. The command `clean` will clean up this repository and keep only the last version installed, while `clean-all` will remove all files from the cache.

Finally `refresh` will refresh the packages available from all the repositories, and `update` will update all your installed packages to their latest version.

## How can I use pacman as a user?

Users usually need only batocera-store commands. But here are some details on how it works under the hood.

The first thing to do is to synchronize your local pacman DB with Batocera's repository (kind of an “app store” for packages).

```
# pacman -Sy
:: Synchronizing package databases...
batocera              768.0   B  0.00   B/s 00:00 [-----]
-----] 100%
```

Then you can search for all packages available

```
# pacman -Ss
batocera/bezels-default-glazed 1.0.0-1
    Batocera bezels with a CRT effect
batocera/nes-alter-ego 1.0.0-1
    NES freeware puzzle game - manual provided as a pdf
batocera/ports-quake-shareware 1.0.0-1
    Quake game files (shareware version)
```

You can search from string, like `pacman -Ss bezels`.

In order to install/upgrade a package you can type:

```
# pacman -S nes-alter-ego
resolving dependencies...
looking for conflicting packages...
Packages (1) nes-alter-ego-1.0.0-1
Total Download Size:   0.40 MiB
Total Installed Size:  0.49 MiB
:: Proceed with installation? [Y/n]
(1/1) checking keys in keyring [-----]
-----] 100%
(1/1) checking package integrity [-----]
-----] 100%
(1/1) loading package files [-----]
-----] 100%
(1/1) checking for file conflicts [-----]
-----] 100%
(1/1) checking available disk space [-----]
-----] 100%
(1/1) reinstalling nes-alter-ego [-----]
-----] 100%
:: Running post-transaction hooks...
(1/1) batocera-install.hook
Entry for Alter_Ego.nes added in /userdata/roms/nes/gamelist.xml
```

You game will be added to EmulationStation, and you can play this newly installed game!

To remove a package:

```
# pacman -R nes-alter-ego
checking dependencies...
Packages (1) nes-alter-ego-1.0.0-1
Total Removed Size: 0.47 MiB
:: Do you want to remove these packages? [Y/n]
:: Processing package changes...
(1/1) removing nes-alter-ego [-----]
-----] 100%
```

## Install, remove and manage packages

The easiest is to install a package from a repository. For example, to install `nes-alter-ego` from the Batocera repository, just enter:

```
pacman -S nes-alter-ego
```

It is not necessary to setup a repository to test your own packages (see below about setting up your own repositories). You can simply install or upgrade a local package in `.tar.xz` format by typing:

```
pacman -U mypackage-1.0.0-1.tar.xz
```

To remove a package, whether it's been installed from a repository or from an individual package, you need to use the `-R` switch, without providing the version of the package that is intalled. For example:

```
pacman -R mypackage
```

A list of all currently installed packages can be seen with the following:

```
pacman -Q
```

Also, you can see that every package that gets installed (whether from an individual package or from a repository) is copied locally to `/userdata/system/pacman/pkg/` on your Batocera system. This local cache directory of packages can be cleaned up, i.e. remove all the package files, by entering:

```
pacman -Scc
```

## Manage your own repository

You can use `pacman` to manage your own library of packages (if you want to add your own ROMs to the free ones distributed by the Batocera game store for example).

In order to do so, you can create a local repository by adding a new section in `/userdata/system/pacman/pacman.conf`:

```
[private_repo]
Server          = file:///userdata/local_repo/
```

Server can be a local directory like /userdata/local\_repo/ or you can host that on your own web server.

To add a package to your local repository, copy your new package mypackage-1.0.0-1.tar.xz to where your local repository stands and type:

```
# repo-add /userdata/local_repo/private_repo.db.tar.gz mypackage-1.0.0-1-
any.pkg.tar.xz
==> Extracting private_repo.db.tar.gz to a temporary location...
==> Extracting private_repo.files.tar.gz to a temporary location...
==> Adding package 'mypackage-1.0.0-1-any.pkg.tar.xz'
    -> Computing checksums...
    -> Creating 'desc' db entry...
    -> Creating 'files' db entry...
==> Creating updated database file
'/userdata/local_repo/private_repo.db.tar.gz'
```

Once the package is added to your repo, synchronize your pacman with the latest information by typing pacman -Sy and you can now install your package from your repository.

To remove a package from your repository, you can use repo-remove /userdata/local\_repo/private\_repo.db.tar.gz mypackage (it's the name of the package, not the file name with the version).

## Make your own package

For that, refer to the ["Create your own pacman package" developer page](#) about it.

## Troubleshooting

### Nothing is loading in the content downloader/themes menu

It is possible that the current date and time is set incorrectly. These can be adjusted from



, or by running date -s in [the terminal](#).

If also booting Windows on the same machine, you may also need to [fix the way Windows interacts with the RTC](#).

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