Conan C/C++ package manager

CONCEPTS

Conan 2 reads a conanfile.txt or conanfile.py; a profile picks compiler and settings, generators feed your build system.

Recipe conanfile.py
↓ `conan create`
Local cache ~/.conan2
↓ `conan upload`
Remote conancenter, Artifactory

Settings, options and conf given on the command line override the profile; use -pr:b for the build machine and -pr:h for the target.

PROJECT SETUP

`conan profile detect`
Generate the default profile

`conan new cmake_lib -d name=`*`<n>`* **`-d version=`***`<v>`*
Scaffold a CMake library recipe

INSTALL & BUILD

`conan install .`
Install dependencies of this project

`conan install . --build=missing`
Build binaries that are not available

`conan build .`
Install deps and run the recipe's build()

`conan install . -of `*`<dir>`*
Write generated files to another folder

`conan install . -g CMakeDeps`
Add a generator

`conan install --requires=`*`<pkg>`***`/`***`<ver>`*
Install a package without a recipe

`conan install . -s build_type=Debug`
Override a setting

`conan install . -o `*`<pkg>`***`/*:shared=True`**
Set a package option

`conan install . -pr:b `*`<profile>`* **`-pr:h `***`<profile>`*
Cross-build with two profiles

CREATE PACKAGES

`conan create .`
Build the recipe and test it

`conan create . --build=missing`
Create, building missing deps

`conan test test_package `*`<pkg>`***`/`***`<ver>`*
Test an existing package

PROFILES

`conan profile list`
List profiles in the cache

`conan profile show`
Show the resolved default profile

`conan profile show -pr `*`<profile>`* **`-s build_type=Debug`**
Preview a profile plus overrides

REMOTES

`conan remote list`
List remotes

`conan remote add `*`<name> <url>`*
Add a remote

`conan remote login `*`<remote> <user>`*
Log in to a remote

SEARCH & LIST

`conan search "`*`<pkg>`***`*"`**
Search recipes in all remotes

`conan search "`*`<pkg>`***`*" -r `***`<remote>`*
Search one remote

`conan list "`*`<pkg>`***`/*"`**
List cached versions

`conan list "`*`<pkg>`***`/`***`<ver>`***`:*"`**
List cached binaries

`conan list "`*`<pkg>`***`/*" -r `***`<remote>`*
List versions on a remote

`conan graph info .`
Show the dependency graph

UPLOAD & CACHE

`conan upload "`*`<pkg>`***`/`***`<ver>`***`" -r `***`<remote>`*
Upload recipe and binaries

`conan remove "`*`<pkg>`***`/`***`<ver>`***`"`**
Delete from the local cache