Bundler Docs Type to search... Team Blog



## Choose version

v2.6

## **General**

Release notes

**Primary Commands** 

bundle install

bundle cache

bundle exec

bundle update

bundle config bundle help

**Utilities** 

bundle

bundle add

bundle binstubs

bundle check

bundle clean

bundle console

bundle doctor

bundle fund

bundle info bundle init

bundle gem

bundle env

bundle inject bundle issue

bundle licenses bundle list

bundle lock bundle open

bundle outdated

bundle platform

bundle plugin bundle pristine

bundle remove

bundle show bundle version bundle viz

gemfile

bundle-install - Install the dependencies specified in your Gemfile

**V** 

bundle install

bundle install [--binstubs[=DIRECTORY]]

[--clean]

```
[--deployment]
[--frozen]
[--full-index]
[--gemfile=GEMFILE]
[--jobs=NUMBER]
[--local]
[--no-cache]
[--no-prune]
[--path PATH]
[--prefer-local]
[--quiet]
[--redownload]
[--retry=NUMBER]
[--shebang=SHEBANG]
[--standalone[=GROUP[ GROUP...]]]
[--system]
[--trust-policy=TRUST-POLICY]
[--target-rbconfig=TARGET-RBCONFIG]
[--with=GROUP[ GROUP...]]
[--without=GROUP[ GROUP...]]
```

Repository

Description

If a Gemfile.lock does exist, and you have updated your Gemfile(5), Bundler will use the dependencies in the Gemfile.lock for all gems that you did not update, but will re-resolve the dependencies of gems that you did update. You can find more information about this

Install the gems specified in your Gemfile(5). If this is the first time you run bundle install (and a Gemfile.lock does not exist), Bundler

Options

The --clean, --deployment, --frozen, --no-prune, --path, --shebang, --system, --without and --with options are deprecated because they only make sense if they are applied to every subsequent bundle install run automatically and that requires bundler to silently remember them. Since bundler will no longer remember CLI flags in future versions, bundle config

and puts it in bin/. This lets you link the binstub inside of an application to the exact gem version the application needs. Creates a directory (defaults to ~/bin when the option is used without a value, or to the given <BINSTUBS> directory otherwise) and places any executables from the gem there. These executables run in Bundler's context. If used, you might add this directory to your environment's PATH variable. For instance, if the rails gem comes with a rails executable, this flag will create a bin/rails executable that ensures that all referred dependencies will be resolved using the bundled gems.

On finishing the installation Bundler is going to remove any gems not present in the current Gemfile(5). Don't worry, gems currently in use will not be removed.

--deployment In deployment mode, Bundler will 'roll-out' the bundle for production or CI use. Please check carefully if you want to have this option enabled in your development environment.

Force download every gem, even if the required versions are already available locally.

--redownload, --force

--full-index Bundler will not call Rubygems' API endpoint (default) but download and cache a (currently big) index file of all gems. Performance can be

improved for large bundles that seldom change by enabling this option.

--gemfile=GEMFILE The location of the Gemfile(5) which Bundler should use. This defaults to a Gemfile(5) in the current working directory. In general, Bundler

to this location.

The maximum number of parallel download and install jobs. The default is the number of available processors. --local

will assume that the location of the Gemfile(5) is also the project's root and will try to find Gemfile.lock and vendor/cache relative

Force using locally installed gems, or gems already present in Rubygems' cache or in vendor/cache, when resolving, even if newer versions are available remotely. Only attempt to connect to rubygems.org for gems that are not present locally.

--prefer-local

--no-cache

--jobs=<number>, -j=<number>

Do not update the cache in vendor/cache with the newly bundled gems. This does not remove any gems in the cache but keeps the newly bundled gems from being cached during the install.

--path=PATH

The location to install the specified gems to. This defaults to Rubygems' setting. Bundler shares this location with Rubygems, gem install ... will have gem installed there, too. Therefore, gems installed without a --path ... setting will show up by calling gem **list**. Accordingly, gems installed to other locations will not get listed.

--retry=[<number>]

Retry failed network or git requests for *number* times. --shebang=SHEBANG Uses the specified ruby executable (usually ruby) to execute the scripts created with --binstubs. In addition, if you use -**binstubs** together with **--shebang jruby** these executables will be changed to execute **jruby** instead.

Makes a bundle that can work without depending on Rubygems or Bundler at runtime. A space separated list of groups to install can be

specified. Bundler creates a directory named bundle and installs the bundle there. It also generates a bundle/bundler/setup.rb

file to replace Bundler's own setup in the manner required. Using this option implicitly sets path, which is a [remembered option] [REMEMBERED OPTIONS].

--standalone[=<list>]

Installs the gems specified in the bundle to the system's Rubygems location. This overrides any previous configuration of **--path**. This option is deprecated in favor of the **system** setting. --trust-policy=TRUST-POLICY

Apply the Rubygems security policy *policy*, where policy is one of **HighSecurity**, **MediumSecurity**, **LowSecurity**,

--with=<list> A space-separated list of groups referencing gems to install. If an optional group is given it is installed. If a group is given that is in the remembered list of groups given to --without, it is removed from that list.

--without=<list> A space-separated list of groups referencing gems to skip during installation. If a group is given that is in the remembered list of groups given to --with, it is removed from that list.

flag. Do not activate deployment mode on development machines, as it will cause an error when the Gemfile(5) is modified.

l. A **Gemfile.lock** is required. To ensure that the same versions of the gems you developed with and tested with are also used in deployments, a Gemfile.lock is required.

snapshot.

system.

separated list of groups.

that you have already developed and tested against.

For a simple illustration, consider the following Gemfile(5):

have Bundler switch to Rack 1.2 when the **production** group is used.

the gems specified in the Gemfile(5)) into a file called Gemfile.lock.

your application moves across machines.

source 'https://rubygems.org'

gem 'sinatra'

2. The **Gemfile.lock** must be up to date In development, you can modify your Gemfile(5) and re-run bundle install to conservatively update your Gemfile.lock

In development, it's convenient to share the gems used in your application with other applications and other scripts that run on the

In deployment, isolation is a more important default. In addition, the user deploying the application may not have permission to

By default, bundle install will install all gems in all groups in your Gemfile(5), except those declared for a different platform.

However, you can explicitly tell Bundler to skip installing certain groups with the --without option. This option takes a space-

install gems to the system, or the web server may not have permission to read them. As a result, **bundle install ——deployment** installs gems to the **vendor/bundle** directory in the application. This may be overridden using the **--path** option.

This is mainly to ensure that you remember to check your **Gemfile.lock** into version control.

In deployment, your **Gemfile.lock** should be up-to-date with changes made in your **Gemfile**(5).

3. Gems are installed to **vendor/bundle** not your default system location

While the --without option will skip *installing* the gems in the specified groups, it will still *download* those gems and use them to resolve the dependencies of every gem in your Gemfile(5). This is so that installing a different set of groups on another machine (such as a production server) will not change the gems and versions

group :production do gem 'rack-perftools-profiler' end

In this case, sinatra depends on any version of Rack (>= 1.0), while rack-perftools-profiler depends on l.x ( $\sim$ > 1.0).

When you run bundle install —without production in development, we look at the dependencies of rack—perftools—

This should not cause any problems in practice, because we do not attempt to install the gems in the excluded groups, and only

profiler as well. That way, you do not spend all your time developing against Rack 2.0, using new APIs unavailable in Rack l.x, only to

The Gemfile.lock When you run bundle install, Bundler will persist the full names and versions of all gems that you used (including dependencies of

contributors potentially unaware of the problem. Since **bundle install** is usually the first step towards a contribution, the pain of broken dependencies would discourage new contributors from contributing. As a result, we have revised our guidance for gem authors to now recommend checking in the lock for gems.

source 'https://rubygems.org' gem 'actionpack', '2.3.8' gem 'activemerchant'

rack ~> 1.1.0 not currently being used to satisfy another dependency Because you did not explicitly ask to update <a href="activemerchant">activemerchant</a>, you would not expect it to suddenly stop working after updating

in your Gemfile(5).

Next, you modify your Gemfile(5) to:

gem 'activemerchant'

dependencies.

treats gems in your Gemfile(5) that have not changed as an atomic unit together with their dependencies. In this case, the

activemerchant dependency is treated as activemerchant 1.7.1 + activesupport 2.3.8, so bundle install will report that it cannot update <a href="actionpack">actionpack</a>. To explicitly update <a href="actionpack">actionpack</a>, including its dependencies which other gems in the <a href="Gemfile(5">Gemfile(5)</a> still depend on, run <a href="bundle update">bundle update</a>

no other gem in the Gemfile(5) is impacted by the change. If that does not work, run bundle update(1).

About

Blog

See Also

actionpack (see bundle update(1)).

Edit this document on GitHub if you caught an error or noticed something was missing.

Team

If a Gemfile.lock does exist, and you have not updated your Gemfile(5), Bundler will fetch all remote sources, but use the dependencies specified in the **Gemfile.lock** instead of resolving dependencies.

will fetch all remote sources, resolve dependencies and install all needed gems.

update process below under CONSERVATIVE UPDATING.

(see bundle-config(l)) should be used to apply them permanently. --binstubs[=BINSTUBS]

Binstubs are scripts that wrap around executables. Bundler creates a small Ruby file (a binstub) that loads Bundler, runs the command,

--clean

This option is deprecated in favor of the clean setting. This option is deprecated in favor of the deployment setting.

--frozen Do not allow the Gemfile.lock to be updated after this install. Exits non-zero if there are going to be changes to the Gemfile.lock. This option is deprecated in favor of the frozen setting.

Do not attempt to connect to rubygems.org . Instead, Bundler will use the gems already present in Rubygems' cache or in vendor/cache. Note that if an appropriate platform-specific gem exists on rubygems.org it will not be found.

--no-prune Don't remove stale gems from the cache when the installation finishes. This option is deprecated in favor of the no\_prune setting.

This option is deprecated in favor of the path setting. --quiet Do not print progress information to the standard output.

--system

This option is deprecated in favor of the **shebang** setting.

AlmostNoSecurity, or NoSecurity. For more details, please see the Rubygems signing documentation linked below in SEE ALSO. --target-rbconfig=TARGET-RBCONFIG Path to rbconfig.rb for the deployment target platform.

Deployment Mode Bundler's defaults are optimized for development. To switch to defaults optimized for deployment and for CI, use the --deployment

This option is deprecated in favor of the without setting.

This option is deprecated in favor of the with setting.

Installing Groups

testing is also the third-party code you are running in production. You can choose to exclude some of that code in different environments, but you will never be caught flat-footed by different versions of third-party code being used in different environments.

Bundler offers a rock-solid guarantee that the third-party code you are running in development and

evaluate as part of the dependency resolution process. This also means that you cannot include different versions of the same gem in different groups, because doing so would result in different sets of dependencies used in development and production. Because of the vagaries of the dependency resolution process, this usually affects more than the gems you list in your Gemfile(5), and can (surprisingly) radically change the gems you are using.

Bundler uses this file in all subsequent calls to **bundle install**, which guarantees that you always use the same exact code, even as

As a result, you SHOULD check your Gemfile.lock into version control, in both applications and gems. If you do not, every machine

that checks out your repository (including your production server) will resolve all dependencies again, which will result in different

When Bundler first shipped, the Gemfile.lock was included in the .gitignore file included with generated gems. Over time,

however, it became clear that this practice forces the pain of broken dependencies onto new contributors, while leaving existing

versions of third-party code being used if any of the gems in the Gemfile(5) or any of their dependencies have been updated.

Because of the way dependency resolution works, even a seemingly small change (for instance, an update to a point-release of a

dependency of a gem in your Gemfile(5)) can result in radically different gems being needed to satisfy all dependencies.

Conservative Updating

In other words, if a gem that you did not modify worked before you called bundle install, it will continue to use the exact same

When you make a change to the Gemfile(5) and then run bundle install, Bundler will update only the gems that you modified.

activesupport 2.3.8 and rack ~> 1.1.0, while the activemerchant gem depends on activesupport >= 2.3.2,

When the dependencies are first resolved, Bundler will select active support 2.3.8, which satisfies the requirements of both gems

In this case, both <a href="https://actionpack.com/activemerchant">activemerchant</a> depend on <a href="https://actionpack.com/actionpack.co

The actionpack 3.0.0.rc gem has a number of new dependencies, and updates the active support dependency to =

actionpack. However, satisfying the new active support 3.0.0.rc dependency of actionpack requires updating one of its

Summary: In general, after making a change to the Gemfile(5), you should first try to run bundle install, which will guarantee that

Repository

source 'https://rubygems.org' gem 'actionpack', '3.0.0.rc'

versions of all dependencies as it used before the update.

braintree  $\geq 2.0.0$ , and builder  $\geq 2.0.0$ .

3.0.0.rc and the rack dependency to ~> 1.2.1.

Let's take a look at an example. Here's your original Gemfile(5):

When you run bundle install, Bundler notices that you changed the actionpack gem, but not the activemerchant gem. It evaluates the gems currently being used to satisfy its requirements: activesupport 2.3.8

also used to satisfy a dependency in activemerchant, which is not being updated

Even though activemerchant declares a very loose dependency that theoretically matches activesupport 3.0.0.rc, Bundler

 Gem install docs • Rubygems signing docs

Docs