

Package ‘opencpu’

June 1, 2026

Title Producing and Reproducing Results

Version 2.2.15

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Encoding UTF-8

URL <https://www.opencpu.org> <https://opencpu.r-universe.dev/opencpu>

BugReports <https://github.com/opencpu/opencpu/issues>

Depends R (>= 3.0.0)

Imports evaluate (>= 0.12), httpuv (>= 1.3), knitr (>= 1.6), jsonlite (>= 1.4), remotes (>= 2.0.2), sys (>= 2.1), webutils (>= 0.6), curl (>= 4.0), rappdirs, rlang, vctrs, methods, zip, mime, protolite, brew, openssl

Suggests arrow, unix (>= 1.5.3), haven, pander, svglite

SystemRequirements pandoc, apparmor (optional)

Description A system for embedded scientific computing and reproducible research with R as described in <[doi:10.48550/arXiv.1406.4806](https://doi.org/10.48550/arXiv.1406.4806)>.

The OpenCPU server exposes a simple but powerful HTTP api for RPC and data interchange with R. This provides a reliable and scalable foundation for statistical services or building R web applications. The OpenCPU server runs either as a single-user development server within the interactive R session, or as a multi-user Linux stack based on Apache2.

The entire system is fully open source and permissively licensed. The OpenCPU website has detailed documentation and example apps.

LazyData yes

RoxygenNote 7.3.2.9000

NeedsCompilation no

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Repository CRAN

Date/Publication 2026-06-01 05:10:22 UTC

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apps	<i>OpenCPU Application</i>
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Description

Manage installed OpenCPU applications. These applications can be started locally using [ocpu_start_app](#) or deployed online on [ocpu.io](#).

Usage

```
install_apps(repo, ...)
```

```
remove_apps(repo)
```

```
installed_apps()
```

```
available_apps()
```

```
update_apps(...)
```

Arguments

repo	a github repository such as user/repo, see remotes::install_github .
...	additional options for <code>install_github</code>

Details

OpenCPU apps are simply R packages. For regular users, apps get installed in a user-specific app library which is persistent between R sessions. This is used for locally running or developing web applications.

When running these functions as `opencpu` user on an OpenCPU cloud server, apps will be installed in the global `opencpu` server app library; the same library as used by the OpenCPU Github webhook.

See Also

Other ocpu: [ocpu-server](#)

Examples

```
## Not run:
# List available demo apps
available_apps()

# Run application from: https://github.com/rwebapps/nabel
ocpu_start_app("rwebapps/nabel")

# Run application from: https://github.com/rwebapps/markdownapp
ocpu_start_app("rwebapps/markdownapp")

# Run application from: https://github.com/rwebapps/stockapp
ocpu_start_app("rwebapps/stockapp")

# Run application from: https://github.com/rwebapps/appdemo
ocpu_start_app("rwebapps/appdemo")

# Show currently installed apps
installed_apps()

## End(Not run)
```

ocpu-server

OpenCPU Single-User Server

Description

Starts the OpenCPU single-user server for developing and running apps locally. To deploy your apps on a cloud server or ocpu.io, simply push them to github and install the opencpu webhook. Some example apps are available from [github::rwebapps/](https://github.com/rwebapps/).

Usage

```
ocpu_start_server(
  port = 5656,
  root = "/ocpu",
  workers = 2,
  preload = NULL,
  on_startup = NULL,
  no_cache = FALSE
)

ocpu_start_app(app, update = TRUE, ...)
```

Arguments

port	port number
root	base of the URL where to host the OpenCPU API

workers	number of worker processes
preload	character vector of packages to preload in the workers. This speeds up requests to those packages.
on_startup	function to call once server has started (e.g. <code>utils::browseURL</code>)
no_cache	sets <code>Cache-Control: no-cache</code> for all responses to disable browser caching. Useful for development when files change frequently. You might still need to manually flush the browser cache for resources cached previously. Try pressing CTRL+R or go incognito if your browser is showing old content.
app	either the name of a locally installed package, or a github remote (see <code>install_apps</code>)
update	checks if the app is up-to-date (if possible) before running
...	extra parameters passed to <code>ocpu_start_server</code>

See Also

Other ocpu: [apps](#)

Examples

```
## Not run:
# List available demo apps
available_apps()

# Run application from: https://github.com/rwebapps/nael
ocpu_start_app("rwebapps/nael")

# Run application from: https://github.com/rwebapps/markdownapp
ocpu_start_app("rwebapps/markdownapp")

# Run application from: https://github.com/rwebapps/stockapp
ocpu_start_app("rwebapps/stockapp")

# Run application from: https://github.com/rwebapps/appdemo
ocpu_start_app("rwebapps/appdemo")

# Show currently installed apps
installed_apps()

## End(Not run)
```

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