

# Radicale

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[Radicale](#) is a simple [CalDAV](#) (calendar, to-do lists) and [CardDAV](#) (contacts) server that is easy to install and maintain, does not require a database, and can optionally use a git storage backend. Radicale does not implement the full specification, but a subset.

Radicale may not be the best choice for mixed environments.

The Radicale software stack layers are as follows:

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Layer	Part	Function	Provider	Protocol, Format
1	Daemon	Storage	Radicale	iCal/vCard
2	Daemon	Server	Radicale	CalDAV/CardDAV
(3)	Daemon	Server	nginx	socket/proxy
4	Transfer	Network	internet	http + TLS / https proxy

Layer	Part	Function	Provider	Protocol, Format
5	Client	Receiver	Evolution	CalDAV/CardDAV
6	Client	GUI	Evolution	Terminal, GTK, Web, ...

- Layer 3 is optional
- The provider of layer 3,4,5 and 6 can be changed
- Alternative to [nginx](#) is [apache2](#)

Radical uses different formats at different levels to allow flexibility and compatibility with different calendar clients.

At the storage layer, Radical uses the iCalendar format (ICS) as the primary format for storing calendar data. This is a standard format that is widely supported by many different calendar clients. However, Radical also supports other formats such as vCard.

At the transport layer, Radical uses various protocols to exchange calendar data with different clients and servers. For example, it supports the CalDAV protocol, which is a standard protocol for exchanging calendar data over the Web.

## 1 Radical Installation Methods

The [Radical](#) daemon can theoretically be built and installed via:

#	From	Via	Version	Result	Notes
01	tar	<a href="#">source</a>	3.0.6	NT	
02	tar	[packages]	2.1.11-6	OK	See below
03	git	<a href="#">pip</a>	3.0.6		Package not tried, install works, function not tested
04	git	debuild, dpkg	2.1.12	NT	
05	git	debuild, dpkg	3.0.6*	NG	tried with changed Debian dir from 2.1.12-1
06	git	<a href="#">stdeb</a>	3.0.6*	NG	tried latest
07	git	<a href="#">stdeb</a>	3.0.6*	NG	tried with modified setup.py and setup/cfg
08	tar	<a href="#">stdeb</a>	3.0.6	NG	tried
09	tar	<a href="#">stdeb</a>	3.0.6	NG	tried with modified setup.py and setup/cfg
10	deb	apt-get or aptitude	2.1.11-6	OK	works
11	deb	apt-get or aptitude	2.1.12-2	OK	works
12	deb	apt-get or aptitude	3.0.6-1	NA	

#	From	Via	Version	Result	Notes
13	deb	apt-get or aptitude	3.0.6-3	NT	TODO

- Debian package
  - Via Debian official [package](https://wiki.debian.org/Radicale) repository (only version 2.1.12-1 as of 2020-11-02 and 2.1.12-2 as of 2020-12-29 both in sid). The Debian wiki explains: <https://wiki.debian.org/Radicale>
  - Via a self built package

### Abbreviations:

	Explanation
NT	not tried
NG	not good (failed)
OK	good (passed)
NA	not available

## 2 Radicale Debian Packages

As of now (2020-12-29) only version `2.1.11-6` is available for Debian Buster and `2.1.12-2` for Debian Sid. There is no official Debian package for `3.0.x` in Debian Buster. The 3.0.x version comes with Debian Bullseye.

Debian	Version
Stretch	1.1.1+20160115-4
Buster	2.1.11-6
Bullseye	3.0.6-3

### 2.1 Build Dependencies

To the best of our knowledge, the following build dependencies should be met in order to build `radicale 2.1.11`

```
aptitude install help2man dh-buildinfo devscripts cdbs
↳ python3-atomicwrites \
python3-bcrypt python3-passlib python3-pytest python3-vobject quilt
↳ dh-python \
python3-setuptools
```

## 2.2 Building A Debian Package

For `Radicale 2.1.11`, the process is straightforward on Debian 10 Buster after installing the dependencies.

```
wget
↳ http://deb.debian.org/debian/pool/main/r/radicale/radicale_2.1.11.orig.tar.gz
wget http://deb.debian.org/debian/pool/main/r/radicale/radicale_2.1.11-
↳ 6.debian.tar.xz
tar xvzf radicale_2.1.11.orig.tar.gz
cd Radicale-2.1.11
tar xvJf ../radicale_2.1.11-6.debian.tar.xz
debuild -us -uc
```

This will create `radicale_2.1.11-6_all.deb`.

It is not possible (easy) to build Debian packages from the upstream git source repository, as it does not contain a `debian` directory. The `debian` directory for `2.1.11` does not work for `3.0.x`.

## 3 Clients

- Newer versions of Thunderbird already include a calendar, no plugin needed
- Thunderbird with Lightning plugin (deprecated) requires CalDAV (not iCalendar (ICS)).
- [Evolution](#)

## 4 Links

- [Apache2](#)
- [CalDAV](#)
- [CardDAV](#)
- [Evolution](#)
- [Nginx](#)

- [Radicale](#)

## 5 History

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Version	Date	Notes
0.1.5	2023-04-01	Improve writing, add content
0.1.4	2022-07-05	Shell->Bash
0.1.3	2022-05-09	Change level of section 'Links'
0.1.2	2020-12-29	Update front matter, links, Sid package version
0.1.1	2020-12-29	Update build process
0.1.0	2020-11-02	Initial release

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## 6 Disclaimer of Warranty

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