## **Downtimed**

#### Christian Külker

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#### 1 Introduction

downtimed is a software tool designed for monitoring and recording operating system downtime, uptime, shutdowns, and crashes.

The downtimed daemon initiates at system startup, logging information about the operating system's last downtime to a log destination and a database. This data is accessible using the downtimes command.

Once initialized, downtimed operates in the background, periodically updating a time-stamp file on the disk. This time-stamp helps estimate the last active period of the system. During a proper system shutdown, downtimed records a separate time-stamp. These records are utilized for reporting in subsequent daemon starts.

downtimes is a command-line interface for reviewing downtime history stored in the database.

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The software is compatible with GNU/Linux, FreeBSD, NetBSD, OpenBSD, Mac OS X, and Solaris operating systems and can be adapted for other UNIX-like systems. downtimed is distributed under the Simplified BSD license.

### 2 Installation

To install downtimed, use the following command:

```
aptitude install downtimed
```

This command installs the following components:

- Documentation (changelogs, README files)
- System service configuration for systemd and init.d
- Database storage location
- · Executable and man page

The following files are part of the package:

```
1 /usr/share/doc/downtimed/changelog.gz
2 /lib/systemd/system/downtimed.service
3 /etc/init.d/downtimed
4 /etc/default/downtimed
5 /usr/share/doc/downtimed/README.Debian
6 /usr/share/doc/downtimed/README.md.gz
7 /var/lib/downtimed
8 /usr/sbin/downtimed
9 /usr/share/doc/downtimed/copyright
10 /usr/share/man/man8/downtimed.8.gz
11 /usr/share/doc/downtimed/changelog.Debian.gz
12 /usr/share/doc/downtimed/TODO
13 /usr/share/doc/downtimed
```

To check the status of the downtimed service, use:

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```
Main PID: 12850 (downtimed)
Tasks: 1 (limit: 9402)
Memory: 192.0K
CPU: 4ms
CGroup: /system.slice/downtimed.service
└─12850 /usr/sbin/downtimed
```

### 3 Usage

Initially, if the system has not experienced downtime, attempts to query downtime records using downtime or downtimes will result in error messages indicating the absence of the downtime database file.

After a reboot 31s of downtime can be seen.

```
downtime
down 2024-03-11 13:05:01 -> up 2024-03-11 13:05:32 = 00:00:31 (31 s)
```

Both commands have equal output. However after a second reboot downtime and downtimes differ.

```
downtime
down 2024-03-11 13:07:41 -> up 2024-03-11 13:08:11 = 00:00:30 (30 s)

downtimes
down 2024-03-11 13:05:01 -> up 2024-03-11 13:05:32 = 00:00:31 (31 s)
down 2024-03-11 13:07:41 -> up 2024-03-11 13:08:11 = 00:00:30 (30 s)
```

### 4 Links

- Official website: https://dist.epipe.com/downtimed/
- Source code repository: https://github.com/snabb/downtimed

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### 5 History

Version	Date	Notes
0.1.1	2024-03-11	Release to GitHub, add usage section
0.1.0	2021-02-16	Initial release

# 6 Disclaimer of Warranty

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