



# Getting Started with Redcan in Linux

How to install, monitor logs, manage the service, and uninstall.

## Overview

Redcan is installed and managed in Linux as a systemd service.

### Table of Contents

[Installation](#)

[Checking Service Status](#)

[Checking Service Logs](#)

[Starting and Stopping Service](#)

[Uninstallation](#)

[Common Questions](#)

## Steps

*Please note some commands will require superuser privilege.*

### Installation

1. Download the Debian package to the Linux server with this command at a working directory of your preference.

```
wget https://github.com/L-Francis/Redcan/raw/main/ubuntu_installation/redcan_1.1.deb
```

2. Install the package.

```
dpkg -i redcan_1.1.deb
```

### Checking Service Status

1. The status can be checked with the below systemctl command.

```
systemctl status redcan
```

```
lfranc@francis:~/redcanary$ systemctl status redcan
● redcan.service
   Loaded: loaded (/etc/systemd/system/redcan.service;
   Active: active (running) since Wed 2020-12-02 20:26
   Main PID: 14035 (tam-hw)
     Tasks: 4 (limit: 4587)
    Memory: 708.0K
    CGroup: /system.slice/redcan.service
            └─14035 /home/lfranc/redcanary/tam-hw -s
```

## Checking Service Logs

Redcan logs to /var/log/syslog and its logging can be checked in a few different ways.

1. The tail output of syslog shows Redcan is logging.

```
tail -f /var/log/syslog
```

2. Redcan's logging can be targeted for display with journalctl.

```
journalctl -u redcan -f
```

## Starting and Stopping Service

To manually start and stop Redcan, use the below commands.

1. Start Redcan.

```
systemctl start redcan
```

```
lfranc@francis:~/redcanary$ systemctl start redcan
==== AUTHENTICATING FOR org.freedesktop.systemd1.manage
Authentication is required to start 'redcan.service'.
Authenticating as: Francis (lfranc)
Password:
==== AUTHENTICATION COMPLETE ====
lfranc@francis:~/redcanary$ systemctl status redcan
• redcan.service
   Loaded: loaded (/etc/systemd/system/redcan.service; vendor preset: enabled)
   Active: active (running) since Wed 2020-12-02 20:53:55 UTC; 1min 1s ago
     Main PID: 15746 (tam-hw)
       Tasks: 4 (limit: 4587)
      Memory: 784.0K
        CGroup: /system.slice/redcan.service
                └─15746 /home/lfranc/redcanary/tam-hw -s

Dec 02 20:53:55 francis systemd[1]: Started redcan.service.
Dec 02 20:53:55 francis tam-hw[15746]: Running as a service.
Dec 02 20:53:56 francis tam-hw[15746]: Still waiting for the first connection.
```

## 2. Stop Redcan.

```
systemctl stop redcan
```

```
lfranc@francis:~/redcanary$ systemctl stop redcan
==== AUTHENTICATING FOR org.freedesktop.systemd1.manage
Authentication is required to stop 'redcan.service'.
Authenticating as: Francis (lfranc)
Password:
==== AUTHENTICATION COMPLETE ====
lfranc@francis:~/redcanary$ systemctl status redcan
• redcan.service
   Loaded: loaded (/etc/systemd/system/redcan.service; vendor preset: enabled)
   Active: inactive (dead)

Dec 02 20:51:34 francis tam-hw[14035]: Still waiting on:
Dec 02 20:51:35 francis tam-hw[14035]: Still waiting on:
Dec 02 20:51:36 francis tam-hw[14035]: Still waiting on:
Dec 02 20:51:37 francis tam-hw[14035]: Still waiting on:
Dec 02 20:51:38 francis tam-hw[14035]: Still waiting on:
Dec 02 20:51:39 francis tam-hw[14035]: Still waiting on:
Dec 02 20:51:40 francis tam-hw[14035]: Still waiting on:
Dec 02 20:51:40 francis systemd[1]: Stopping redcan.service:
Dec 02 20:51:40 francis systemd[1]: redcan.service: Succeeded.
Dec 02 20:51:40 francis systemd[1]: Stopped redcan.service.
```

## Uninstallation

1. Redcan comes with an uninstaller script installed under /usr/bin. You can view it as below.

```
ls -l /usr/bin/redcan-uninstall.sh
```

```
lfranc@francis:~/redcanary$ ls -l /usr/bin/redcan-uninstall.sh
-rwxr--r-- 1 root root 373 Dec  2 05:20 /usr/bin/redcan-uninstall.sh
```

2. Run the uninstaller script.

```
/usr/bin/redcan-uninstall.sh
```

```
lfranc@francis:~/redcanary$ sudo /usr/bin/redcan-uninstall.sh
Starting Redcan uninstallation...
Do you wish to proceed? y/n
y
Stopping service.
Disabling service.
Removing service files.
Resetting services.
Redcan uninstallation complete.
lfranc@francis:~/redcanary$ _
```

## Common Questions

### Why do I get the following error when trying to install Redcan?

```
dpkg: error: requested operation requires superuser privilege.
```

To use dpkg for installation, prepend the command with sudo or issue the dpkg command as the superuser.

```
sudo dpkg -i redcan_1.0.deb
```

### How can I transfer the Debian package from my local computer to a Linux server?

Depending on the protocols allowed in the Linux server (SSH, FTP, etc.) there are several different options.

1. Use a popular SCP client such as WinSCP or FileZilla.
  - a. Reference this [article](#) for further details.
2. Use a Windows utility like PSCP.
  - a. Reference this [tutorial](#) for further details.
3. Use FTP from Windows Command Prompt.
  - a. Reference this [documentation](#) for further details.

### Why isn't Redcan logging messages?

Redcan logs messages frequently while it is running. See section [Checking Service Status](#) to make sure the service is enabled.