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.

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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/installation/linux/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
   ```

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
    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.ser
Dec 02 20:51:40 francis systemd[1]: redcan.service: Suc
Dec 02 20:51:40 francis systemd[1]: Stopped redcan.serv
```

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.