



SQL Editor Installation Guide

SQream Technologies

Version 2.1.1

Copyright © 2010-2019. All rights reserved.

This document is provided for information purposes only and the contents hereof are subject to change without notice. This document is not warranted to be error-free, nor subject to any other warranties or conditions, whether expressed orally or implied in law, including implied warranties and conditions of merchant- ability or fitness for a particular purpose.

We specifically disclaim any liability with respect to this document and no contractual obligations are formed either directly or indirectly by this document.

This document may not be reproduced in any form, for any purpose, without our prior written permission.

Table of Contents

Table of Contents	3
SQream SQL Editor Installation Guide	4
Overview	4
Prerequisites	5
Install Node.js 10.x	5
Centos 7.x	5
Option 1 - with Internet access	5
Option 2 - no Internet access	5
Verify Node 10.x is installed	5
Ubuntu 16.04	5
Install Node 10.x	5
Verify Node 10.x is installed	6
Install PM2 - Node Daemon Manager	6
Centos 7.x	6
Ubuntu 16.04	6
Disable the Firewall	6
Deployment Steps	7
Install the SQL Editor application	7
Copy the SQL Editor configuration file	7
Setup the SQL Editor configuration file	7
Test the installation	9
Start or stop the SQL Editor application as a service	10
Add the Node Daemon Manager (PM2) to the startup script after boot	11
Upgrade Instructions	12
Stop the SQL Editor application	12
Backup the current application folder	12
Extract the editor application tar file	12
Start the SQL Editor application	12
Test the SQL Editor application	12

SQream SQL Editor Installation Guide

Version 2.1.1

Overview

- This guide describes the installation steps for the SQream SQL Editor, for both initial installation and upgrade.
- SQream SQL Editor is a web-based database editor for the SQream database and currently supports the Chrome browser only.
- The SQream SQL Editor can be installed on any Linux machine, not necessarily on the same machine as the SQream DB.
- Operation System must be Centos 7.x or Ubuntu 16.04.

Prerequisites

Install Node.js 10.x

Node.js is an open source server framework. It allows you to run JavaScript on the server. To check whether you already have **Node.js** installed, run:

```
node --version
```

If you already have Node.js 10.x installed, you can skip this step.

Centos 7.x

If your PC has internet access you can install it directly from there (Option 1). If your PC doesn't have internet access you have to first download it and then install it (Option 2).

Option 1 - with Internet access

If your PC has internet access perform the following:

```
curl -sL https://rpm.nodesource.com/setup_10.x | sudo bash -  
sudo yum install -y nodejs
```

Option 2 - no Internet access

Download the latest version of node.js and then copy it onto the machine you want to install the Dashboard.

For example: <http://nodejs.org/dist/v10.14.1/node-v10.14.1.tar.gz>

Install:

```
tar xzvf node-v10.14.1.tar.gz && cd node-v10.14.1  
./configure  
make  
sudo make install
```

Verify Node 10.x is installed

```
node --version
```

In case you still have a lower version of node installed make sure to completely uninstall and install node 10.x.

Ubuntu 16.04

Install Node 10.x

```
cd ~
```

```
curl -sL https://deb.nodesource.com/setup_10.x -o nodesource_
setup.sh
sudo bash nodesource_setup.sh
sudo apt-get install -y nodejs
```

Verify Node 10.x is installed

```
node --version
```

In case you still have a lower version of node installed make sure to completely uninstall and install node 10.x.

Install PM2 - Node Daemon Manager

Centos 7.x

Install the Node Daemon Manager for centos 7.x:

```
sudo yum update openssl
sudo npm install pm2 -g
```

Ubuntu 16.04

Install the Node Daemon Manager for ubuntu 16.04:

```
sudo apt-get upgrade openssl
sudo npm install pm2 -g
```

Disable the Firewall

If the SQream SQL Editor is installed on another machine than the SQream server, you must ensure that no firewall is configured. To check and disable the fireball configuration run:

```
sudo systemctl status firewalld
sudo systemctl stop firewalld
sudo systemctl disable firewalld
```

Deployment Steps

Install the SQL Editor application

From this step onward, use the **sqream** user on your system:

```
su - sqream  
cd ~
```

Copy the application tar file to the folder you would like to install the SQream SQL Editor to. Typically, this would be `/home/sqream`

Untar (extract) the package into the user home directory. This opens the application into the `sqream_editor` directory. Typically, this would be `/home/sqream/sqream_editor`

For Example:

```
tar -xvf sqream_editor_v2.1.0.tar.gz
```

Copy the SQL Editor configuration file

The editor configuration file is part of the installation package. Location: `~/sqream_editor/config/default/uiEditorConfig.json`

Copy the `uiEditorConfig.json` file into the `/etc/sqream` directory. This is the folder where typically all SQream related configuration files are stored.

For Example:

```
sudo cp ~/sqream_editor/config/default/uiEditorConfig.json  
/etc/sqream/
```

Setup the SQL Editor configuration file

Edit the `uiEditorConfig.json` and configure the following setting to match your local system:

- **disabledSetSessionTag** - If this flag is set to true, internal DB statements performed by the SQL Editor are not written to the statement log of the SQream server.
- **remoteLoginAvail** - Allows remote login of SQL Editor to SQream DB. If set to false, the SQL Editor can logon to a local SQream DB only (SQream DB and SQL Editor on same machine). If true, the SQL Editor performs logon to a dedicated SQream server (remote), using the host, port and cluster configuration parameters of the file.

- **treeCatalogDisplay** - possible values: "everybody" or "nobody". Allows to display or hide the System Views (sqream_catalog) from the left tree.

Test the installation

After the installation, test the SQL Editor application by starting it manually:

```
NODE_ENV=production node ~/sqream_editor/server.js
```

Using Chrome browse to:

```
http://{server_ip}:3000
```

Make sure the logon screen appears and you can log on to the editor application using user **sqream**, password **sqream** (this is the built-in user for the SQream DB).

Start or stop the SQL Editor application as a service

To start the node server as a service run the following command:

```
NODE_ENV=production pm2 start ~/sqream_editor/server.js --name  
sqream_editor
```

To stop the node server run the following command:

```
NODE_ENV=production pm2 stop ~/sqream_editor/server.js --name  
sqream_editor
```

Add the Node Daemon Manager (PM2) to the startup script after boot

To setup the startup script for the Node Daemon Manager, run the following command:

```
pm2 startup
```

Then copy the received command line and run it.

For Example:

```
sudo env PATH=$PATH:/usr/bin /usr/lib/node_modules/pm2/bin/pm2  
startup systemd -u sqream --hp /home/sqream
```

To remove from startup :

```
pm2 unstartup
```

Upgrade Instructions

Stop the SQL Editor application

If you upgrade the editor, stop the currently running editor application. For example:

```
# Stand-alone system:
NODE_ENV=production pm2 stop ~/sqream_editor/server.js --name
sqream_editor

# HA system with Pacemaker:
sudo pcs resource disable editor
```

Backup the current application folder

Rename the existing sqream_editor directory. For example:

```
# Stand-alone system:
mv /home/sqream/sqream_editor /home/sqream/sqream_editor_bkup

# HA system with Pacemaker:
mv /usr/local/sqream/sqream_editor /usr/local/sqream/sqream_editor_
bkup
```

Extract the editor application tar file

This opens the application into the sqream_editor directory. Typically, this would be /home/sqream/sqream_editor

For Example:

```
tar -xvf sqream_editor_v2.1.0.tar.gz
```

Start the SQL Editor application

To start the node server run the following command:

```
# Stand-alone system:
NODE_ENV=production pm2 start ~/sqream_editor/server.js --name
sqream_editor

# HA system with Pacemaker:
sudo pcs resource enable editor
```

Test the SQL Editor application

Using Chrome browse to:

http://{server_ip}:3000

Make sure you can log on to the editor application using user **sqream**, password **sqream** (this is the built-in user for the SQream DB).