SQL Editor Installation Guide

SQream Technologies

Version 2.1.1

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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).