

# CALS SIM

## Server Specification

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ALBACORE

– CALS SIM – Controller Automated Logging System	Publication date	23/02/2016	– SPARCS – Software Product Architecture Resources Control System
	Project name	<b>CALS SIM</b>	
	Subject	SERVER Specification	
	Chapter name	<i>Objectives of this document</i>	

## Objectives of this document

The purpose of this document is to describe how the server can be accessed and his configuration. Moreover, this document define the function offered by the CALS API.

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Glossary and Terminology

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API: Application Programming Interface

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## Document Description

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## 1. Server

### 1.1. Server Access

Ssh access : ssh -l administrator 193.10.30.129

Username : administrator

Password : \*\*\*\*\*

### 1.2. Mysql Access

Username : root

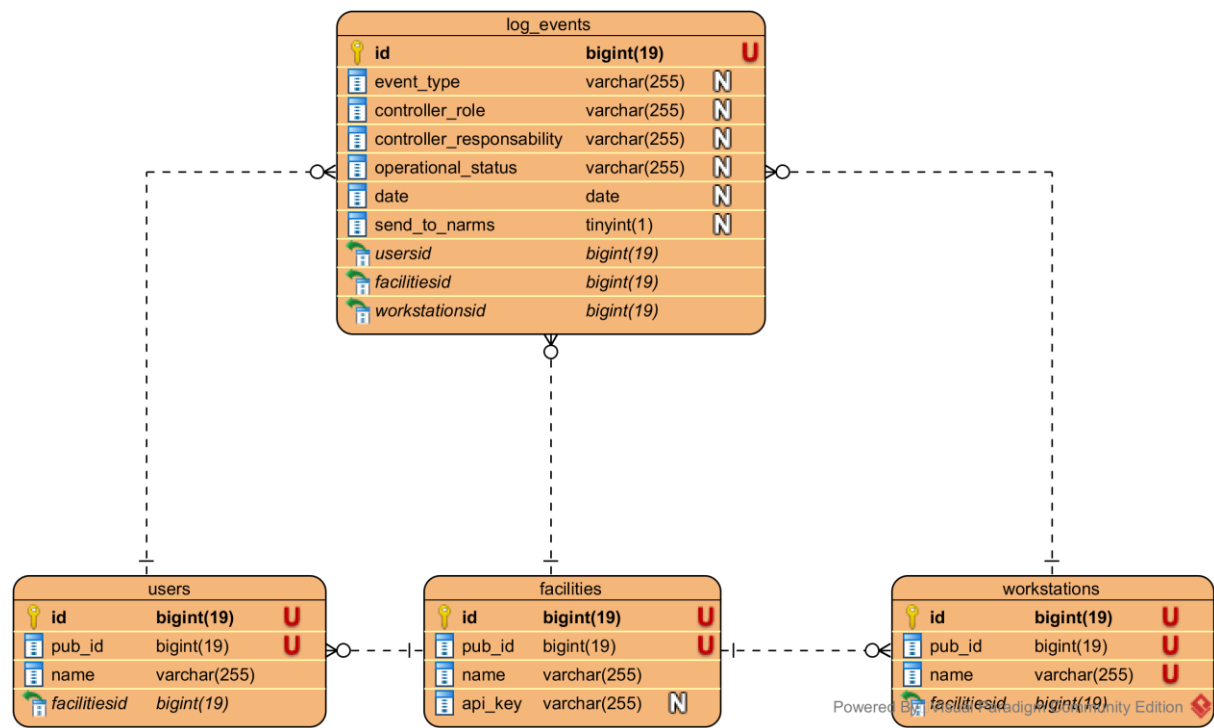
Password : \*\*\*\*\*

### 1.3. Server Configuration

- Python 3.4.2
- Mysql 5.5.47
- Nginx 1.6.2
- Falcon 0.3.0
- PyMySQL 0.7.1
- Gunicorn 19.4.5

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2. Database



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### 3. API

#### 3.1. Localisation

You need to connect to the server via ssh.

```

[arthur~>] ssh -l administrator 193.10.30.129
[administrator@193.10.30.129's password:

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
You have new mail.
Last login: Tue Feb 23 12:56:08 2016 from host106-94.junet.se
administrator@CALS-App:~$
```

Figure 1: ssh connection

Below, you can find the folder with the API code.

```

[administrator@CALS-App:~$ su
[Password:
[root~/home/administrator> cd ~/api
[root~/api> pwd
/root/api
[root~/api> ll
total 24K
drwxr-xr-x 2 root root 4.0K Feb 23 13:12 __pycache__
drwxr-xr-x 5 root root 4.0K Feb 21 15:32 api_venv
-rw-r--r-- 1 root root 195 Feb 23 13:11 cals_api.py
-rw-r--r-- 1 root root 378 Feb 22 15:36 cals_db_connection.py
-rw-r--r-- 1 root root 1.5K Feb 23 13:11 cals_routes.py
drwxr-xr-x 2 root root 4.0K Feb 21 15:33 my_api
[root~/api>
```

Figure 2: API code

There is 3 code files : cals\_api.py (the main file), cals\_db\_connection.py (allowing the connection to the database), and the cals\_routes.py (the post method with the insert on the database).

Command to start Gunicorn : `gunicorn -b 0.0.0.0:8080 cals_api:app &`