

# Migration Guide from VMware image to Ubuntu

Real Time Location System

## 1 System Requirements

- Ubuntu 14.04 64bit operation system
- Processor Intel Core i3 or higher
- At least 4GB RAM memory

# 2 Apache, PHP, MySQL installation

## In Ubuntu console type following lines:

## 1) install apache

```
sudo apt-get update
sudo apt-get install apache2
```

### 2) install mysql, use password "sensmap"

```
sudo apt-get install mysql-server-5.6 php5-mysql
sudo mysql_install_db
```

## 3) install php5

sudo apt-get install php5 libapache2-mod-php5 php5-mcrypt

#### 4) Install phpmyadmin, use password "sensmap"

sudo apt-get install phpmyadmin

## 5) Edit apache.conf

sudo vim /etc/apache2/apache2.conf

Then add the following line:

```
Include /etc/phpmyadmin/apache.conf
```

Modify the Apache configuration file and change AllowOverride None to AllowOverride All for the document root:

Locate the section that looks like the following:

```
<Directory /var/www/>
Options Indexes FollowSymLinks
AllowOverride None
Require all granted
</Directory>
```

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Change it to the following and save the file:

```
<Directory /var/www/>
Options Indexes FollowSymLinks
AllowOverride All
Require all granted
</Directory>
```

To use mod\_rewrite from within .htaccess files, edit the default VirtualHost with

sudo vim /etc/apache2/sites-available/000-default.conf

Search for "DocumentRoot /var/www/html" and add the following lines directly below:

```
<Directory "/var/www/html">
AllowOverride All
</Directory>
```

6) Setting mode rewrite for Apache sudo a2enmod rewrite

sudo service apache2 restart

 Go to <u>http://YOUR\_IP/phpmyadmin/index.php</u> Create database with name "sensmapserver"



8) Import database schema sensmapserver\_default.sql from RTLSKit\_vmware.zip.



Datasheet

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9)	Install Glib			
3)				
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	apt-get install libgtk2.0-dev			
10)	Download and uppack liberaceket library			
10)	Download and unpack nowed source indialy			
	http://git.iibwebs0ckets.org/tgi-bin/tgit/iibwebs0ckets/shapshot/iibwebs0ckets-i.4-thiome45-iife10k-55			
	apt-get-install cmake			
	apt-get-install zlibc			
	apt-get-install zliblg-dev			
	ape get install zlivig dev			
	sudo cmake -DLWS_WITH_SSL=0			
	sudo make			
	sudo make install			
	sudo la -s /usr/local/lib/libwebsockets so 5			
	/usr/llb/llbwebsockets.so.5			
11)	Copy Rtls Server to your host			
•••				
	Source Location /home/rtlsserver			
	Change IP in config.ini to your host.			
12)	Convision Server to your best your directory			
12)	Copy Sensinap Server to your host www directory			
	Source Location: /var/www/html/sensmapserver			
13)	Conv Sensman Visualization to your host www.directory			
10)				
	Source Location: /var/www/html/sensmap			
	Change sensmap/config/config.js file_upload_ip and rest_ip to your IP host address.			
4 4 \	Channe neuminaian fer un un files as fellours			
14)	Unange permission for www files as follows			
	(change <your_account_name> to your actual account name):</your_account_name>			
	sudo adduser <vour account="" name=""> www-data</vour>			
	audo abaum _D unu-data unu-data /uam/uuru			
	Suuo chown - K www-uala: www-uala / Var/ WWW			
	sudo chmod -R g+rwX /var/www			
15)	Convision service services for Seneman Senver and PTLS service to your best Ubuntu			

15) Copy service scripts for Sensmap Server and RTLS server to your host Ubuntu Source Location: /etc/init/rtlsserver.conf Source Location: /etc/init/sensmapsocketserver.conf



Services should be started in the following order: Apache -> SensmapSocketServer -> Rtls Server

16) Edit /etc/init.d/apache2 Add to line 175 initctl emit apache2-started

# # Function that	starts the daemon/service
t lo_start() /	
r # Retur # 0 i # 1 i # 2 i	n f daemon has been started f daemon was already running f daemon could not be started
if pido	fproc -p \$PIDFILE "\$DAEMON" > /dev/null 2>&1 ; then
fi	
if apac	he_conftest ; then \$APACHE2CTL start apache_wait_start \$? initctl emit apache2-started return \$?
else	APACHE2_INIT_MESSAGE="The apache2\$DIR_SUFFIX configtest failed." return 2
fi	

- 17) Reboot machine sudo reboot
- 18) Check whether RTLS Server and SensmapSocketServer are running



# 3 FAQ3.1 Changing DB password

If you change password to database you need to also adjust getConnection() in Sensmap Server script located at the end of /sensmapserver/api/index.php

function	n getConnection() {
	<pre>\$dbhost="127.0.0.1"; \$dbuser="root"; \$dbpass="sensmap"; \$dbname="sensmapserver"; \$dbh = new PD0("mysql:host=\$dbhost;dbname=\$dbname", \$dbuser, \$dbpass); \$dbh-&gt;setAttribute(PD0::ATTR_ERRMODE, PD0::ERRMODE_EXCEPTION);</pre>
}	return \$dbh;

Do not forget re-apply appropriate privileges, step 14.

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## 3.2 How to change Websocket port

Please edit following lines:

## Sensmap Visualization:

/var/www/html/sensmap/xively.js, line 28

f	(!socket && SocketProvider) {
	if (window.SockJS) {
	<pre>socketPort = protocol() === "https:" ? 8093 : 8082;</pre>
	// TODO: double-check these ports are right
	<pre>socketEndpoint = protocol() + "//" + apiHost + ":" + socketPort</pre>
	} else {
	socketPort = protocol() === "https:" ? 8094 : 8080;

## Sensmap Server:

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/var/www/html/sensmapserver/api/index.php, line 3024

	<pre>} } SWebSocketClient = new WebsocketClient('127.0.0.1', B080); echo \$WebSocketClient-&gt;sendData(json_encode(\$dataToSend)); unset(\$WebSocketClient);</pre>
} catch( }	<pre>PDOException \$e) {    echo ' ("error":{"text":'. \$e-&gt;getMessage() .'});</pre>

/var/www/html/sensmapserver/socket/bin/websocket-server.php, line 20



## **RTLS Server:**

/home/rtlsserver/config.ini, line 6





## 3.3 How to modify IP of RTLS server

## **Sensmap Visualization**

/var/www/html/sensmap/config/config.js, lines 10 and 13

uar sensmapconfig = {
(old ip)
rest in: "192.168.225.134".

## **RTLS Server:**

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/home/rtlsserver/config.ini, line 3

Sensmap J
ACTIVE=1
IP=192.168.225.134
PORT= <mark>80</mark>
JEBSOCKET_ACTIVE=1
JEBSOCKET_PORT= <mark>8080</mark>
API_KEY=17254faec6a60f58458308763
JRL=/sensmapserver/api/feeds/
JSER_NAME=rtlsuser
LOG_TO_FILE=0
STORE_TO_DB=0

[Rt1sServer] JDP\_PORT=5000 ?ILTER=1