

OnTime Beacon User Manual

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Software License: ['GENI Project License \(GPL\)'](#)

1. Getting Started

This document describes the installation, configuration and usage of OnTimeMeasure OnTimeBeacon(also known as the web portal), which is a prototype measurement service for the GENI facility users. The measurement service can be used to perform centralized and distributed orchestration and provisioning of active measurements within experiment slices for purposes such as:

- Network paths monitoring
- Network weather forecasting
- Network performance anomaly detection
- Network-bottleneck fault-location diagnosis

The ['OnTimeMeasure researcher web-portal'](#) enables ProtoGENI/Emulab and PlanetLab users to register, create and monitor experiment slices on geographically distributed resources in their facility.

Before proceeding further, we highly recommend reading the [OnTimeMeasure Tutorial](#).

2. Requirements

The OnTimeMeasure OnTimeBeacon software package has the following requirements:

- A. *Operating System:* Ubuntu (Preferred), Fedora
- B. *Software Environment:* Apache, PHP, MySQL
- C. *Software Libraries:* sendmail, curl, php-mail, php-curl

3. Installation

1. Set up standard LAMP server

For Fedora, please refer: <http://fedorasolved.org/server-solutions/lamp-stack>

For Ubuntu, please refer: <http://www.unixmen.com/linux-tutorials/570-install-lamp-with-1-command-in-ubuntu-910>

2. Install prerequisite software

For Fedora

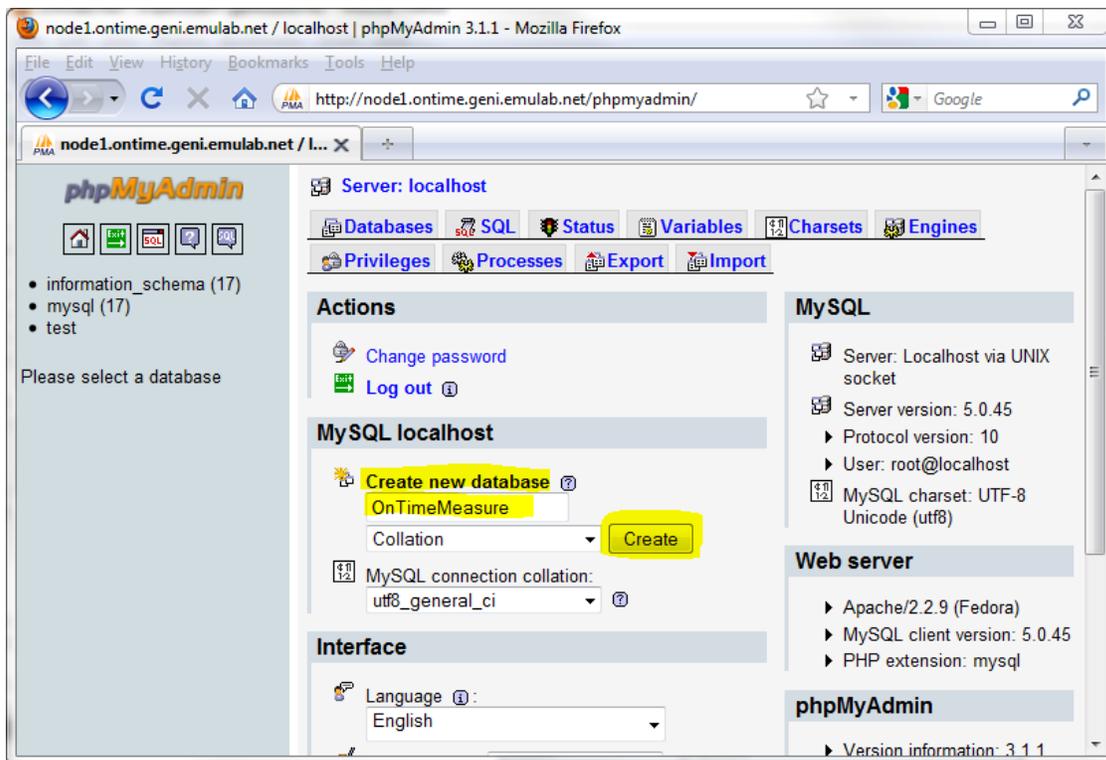
```
sudo yum install sendmail curl phpMyAdmin
```

For Ubuntu

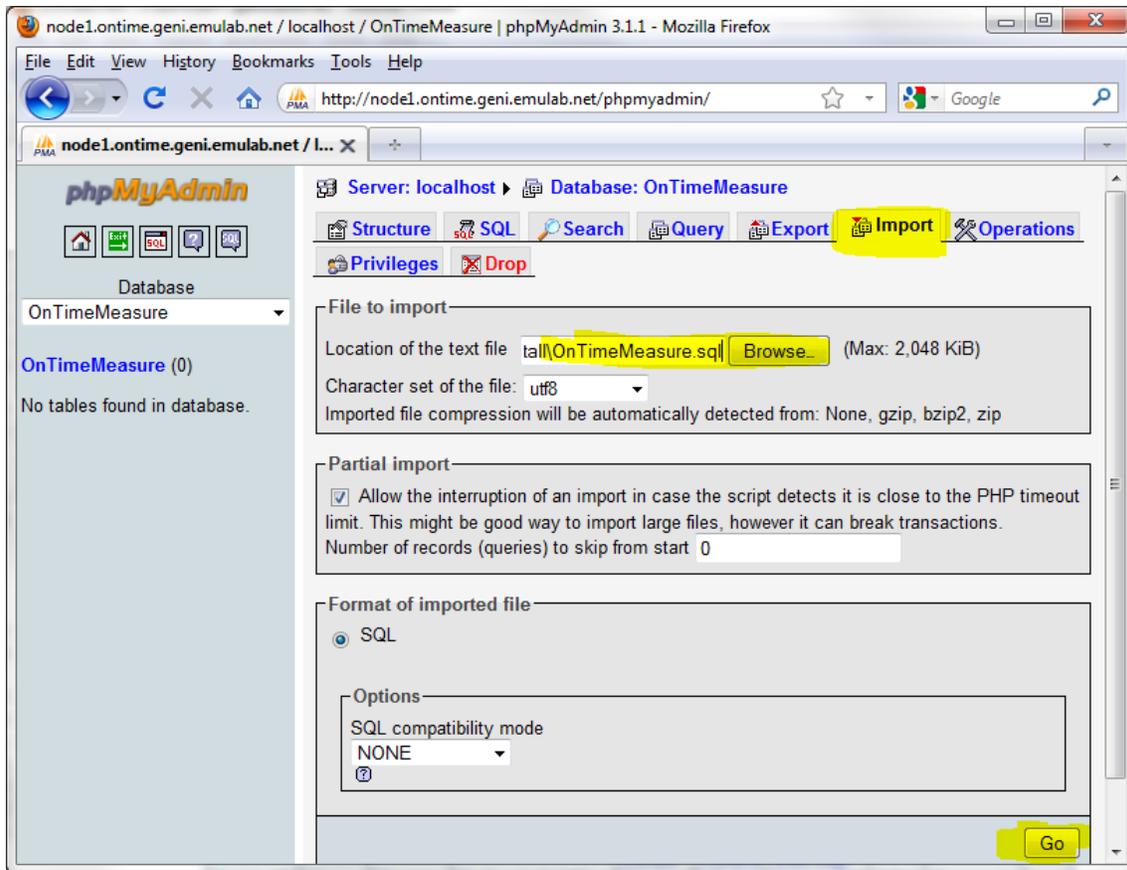
```
sudo apt-get install sendmail curl php5-curl phpmyadmin
```

3. Initialize the database

Open the PhpMyAdmin in the browser at <Server_IP>/phpmyadmin, login and create an empty database named "OnTimeMeasure".



Import the "OnTimeMeasure.sql" which locates in the "install" folder.



Note 1: If get 403 Forbidden when opening phpMyAdmin, edit the /etc/httpd/conf.d/phpMyAdmin.conf, change

```
<Directory /usr/share/phpMyAdmin/>
  order deny,allow
  deny from All
  allow from 127.0.0.1
</Directory>
```

to

```
<Directory /usr/share/phpMyAdmin/>
  order deny,allow
  deny from None
  allow from 127.0.0.1
</Directory>
```

then

```
sudo /sbin/service httpd restart
```

Note 2: If no root user password is set during the installation of MySQL, you can not use phpMyAdmin before setting it by the command:

```
/usr/bin/mysqladmin -u root password 'new-password'
```

4. Configure the OnTimeBeacon

Download the [latest OnTimeBeacon package](#) and unpack all the files in it to the server's /var/www folder.

Rename the "config_example.php" to "config.php" and edit it following the in-file comments to configure the database and notification emails.

4. Management

Log in with the administrator user "admin" by the default password "admin". It is strongly suggested to change the password by clicking the "Change password" link at the top right corner of the page.

When a new user registers at the OnTimeBeacon, administrator will get an e-mail notice. Then the administrator needs to log in to the OnTimeBeacon admin page to manually approve it.

Username	Fullname	Affiliation	Project	Phone	Operation
demo	Demo User	OSC	Geni	6142926066	<input type="button" value="Approve"/> <input type="button" value="Delete"/>

Slice name	User	Nodes
In_slice_pgt2	Luisa	pc133(155.98.36.133) pc141(155.98.36.141) pc135(155.98.36.135)
OvertimeEmulab	ontime	root(155.98.36.117) node1(155.98.36.86) node2(155.98.39.78) node3(155.98.36.127)

Click the "Approve" button to activate the user or "delete" to remove the record if it is a spam. An automatically generated email will be sent to the authorized user notifying the user that his/her account has been activated.

In the users page, administrators can manage all the users. The slices page shows all the slices registered in the web-portal. By clicking the user name on either of the page, an administrator can read the meta data of the user's action.

The web-portal automatically sends an e-mail to all OnTimeBeacon Administrators for informational purposes when a user inputs new slice information.