

Performance Test Tools
Installation and
Configuration







Install Java SE Development Kit (SDK)

- JAVA VERSION 1.8 OR HIGHER
- REQUIRE JVM 8 OR HIGHER



Step 1) Install Java

Because JMeter is pure Java desktop application, it requires a fully compliant JVM 6 or higher. You can download and install the latest version of Java SE Development Kit.

Download Java Platform (JDK)



After installation is finished, you can use the following procedure to check whether Java JDK is installed successfully in your system

- In Window/Linux, go to Terminal
- Enter command java -version





If the Java runtime environment is installed successfully, you will see the output as the figure below

```
Administrator: C:\Windows\system32\cmd.exe

C:\Users\Administrator.PC java -version
java version "1.7.0_25"

Java(TM) SE Runtime Environment (build 1.7.0_25-b17)
Java HotSpot(TM) 64-Bit Server UM (build 23.25-b01, mixed mode)

C:\Users\Administrator.PC>_
```

If nothing displays, please re-install Java SE runtime environment





Install JMeter

USING VERSION 5.1.1



About

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Documentation

- Get Started
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- Best Practices
- Component Reference
- Functions Reference
- Properties Reference
- Change History
- Javadocs
- JMeter Wiki
- FAQ (Wiki)

Tutorials

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- Recording Tests
- JUnit Sampler
- Access Log Sampler
- Extending JMeter

Community

Issue Tracking

Download Apache JMeter





We recommend you use a mirror to download our release builds, but you **must** <u>verify the integrity</u> of the downloaded files using signatures downloaded from our main distribution directories. Recent releases (48 hours) may not yet be available from all the mirrors.

You are currently using **https://www-eu.apache.org/dist/**. If you encounter a problem with this mirror, please select another mirror. If all mirrors are failing, there are *backup* mirrors (at the end of the mirrors list) that should be available.

Other mirrors: https://www-eu.apache.org/dist/ ▼ Change

The **KEYS** link links to the code signing keys used to sign the product. The **PGP** link downloads the OpenPGP compatible signature from our main site. The **SHA-512** link downloads the sha512 checksum from the main site. Please verify the integrity of the downloaded file.

For more information concerning Apache JMeter, see the Apache JMeter site.

KEYS

Apache JMeter 5.1.1 (Requires Java 8+)

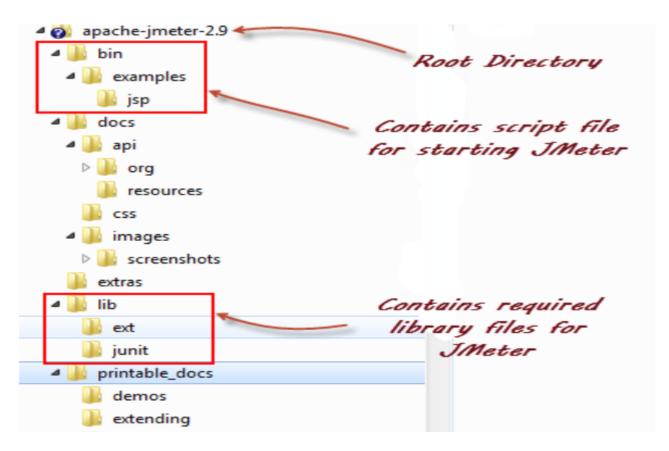
Binaries

<u>apache-jmeter-5.1.1.tgz</u> <u>sha512</u> <u>pgp</u> <u>apache-jmeter-5.1.1.zip</u> <u>sha512</u> <u>pgp</u>

Step 3) Installation

Installation of JMeter is extremely easy and simple. You simply unzip the zip/tar file into the directory where you want JMeter to be installed. There is no tedious installation screen to deal with! Simply unzip and you are done!

Once the unzipping is done installation directory structure should look like as figure below



JMeter Directories

Given below is the description of the JMeter directories and its importance JMeter directory contains many files and directory

- /bin: Contains JMeter script file for starting JMeter
- /docs: JMeter documentation files
- /extras: ant related extra files
- /lib/: Contains the required Java library for JMeter
- /lib/ext: contains the core jar files for JMeter and the protocols
- /lib/junit: Junit library used for JMeter
- /printable_docs:



How to launch JMeter

Step 4) Launch JMeter

You can start JMeter in 3 modes

- GUI Mode
- Server Mode
- Command Line Mode



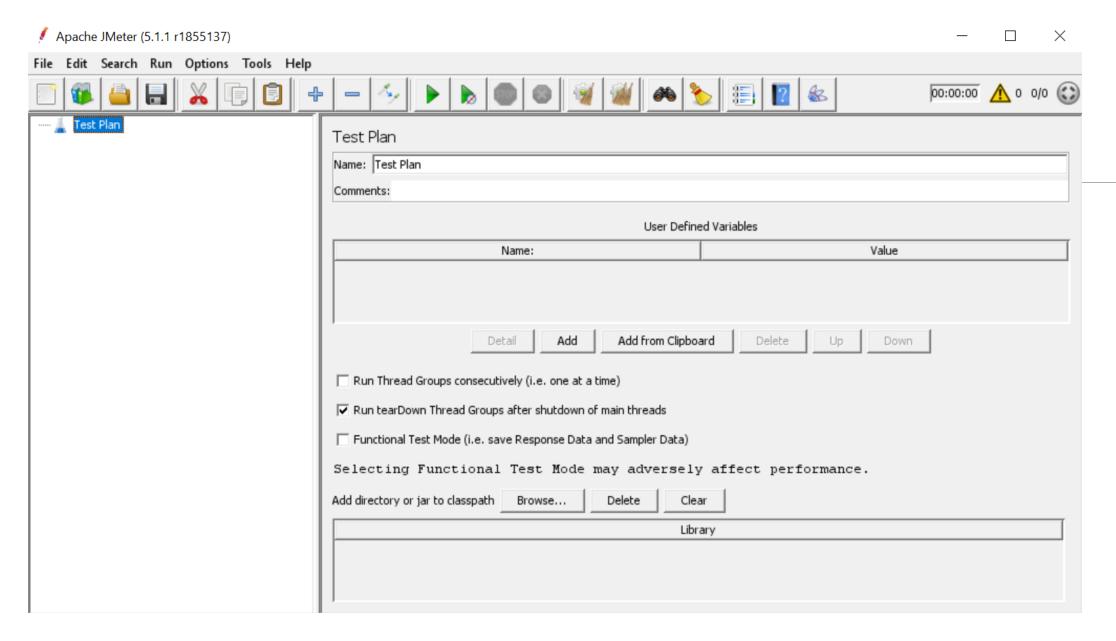
Start JMeter in GUI Mode

If you are using Window, just run the file /bin/jmeter.bat to start JMeter in GUI mode as

shown below

🏄 apache-jmeter-2.9	8/21/2013 10:35 PM	File folder
脂 Download	8/27/2013 10:15 PM	File folder
🌆 Entertainment	8/8/2013 10:41 PM	File folder
脂 home	7/21/2013 9:07 PM	File folder
🍌 Intel	1/3/2008 4:55 AM	File folder
MSOCache	1/3/2008 12:33 PM	File folder
脂 Nguyen	8/27/2013 7:21 PM	File folder
脂 PerfLogs	7/14/2009 10:20 AM	File folder
🍌 Perl	2/24/2013 11:41 AM	File folder
🕌 Program Files	8/17/2013 10:57 AM	File folder
脂 Program Files (x86)	8/21/2013 10:09 PM	File folder
🧎 ProgramData	8/7/2013 7:22 PM	File folder
🍌 Repositories	8/5/2013 8:41 PM	File folder
🅌 Share	8/24/2012 10:33 PM	File folder
脂 Users	1/3/2008 6:01 AM	File folder
脂 Van	8/17/2013 7:08 PM	File folder
퉱 Windows	8/11/2013 8:05 AM	File folder
Mindows.old	1/3/2008 5:36 AM	File folder
1 vamon	6/26/2012 7:14 DM	Eila folder







Start JMeter in Server Mode

Server mode is used for **distributed** testing. This **Testing** works as **a client-server** model. In this model, JMeter runs on a server computer in **server** mode. On a client computer, JMeter runs in **GUI** mode.

To start the server mode, you run the bat file bin\jmeter-server.bat as below figure

```
C:\Windows\system32\cmd.exe - jmeter-server.bat

C:\Nguyen\Source_code\apache-jmeter-2.9\bin jmeter-server.bat

Could not find ApacheJmeter_core.jar ...

Trying JMETER_HOME=..

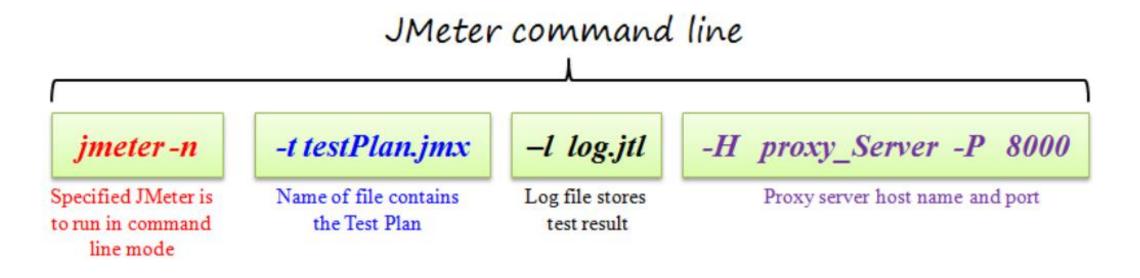
Found ApacheJMeter_core.jar

Created remote object: UnicastServerRef [liveRef: [endpoint:[192.168.1.3:9506]<1]

ocal>,objID:[-1db1e294:1408c6bd990:-7fff, 6681267962597092200]]]
```

Start JMeter in command line mode

JMeter in GUI mode consumes much computer memory. For saving the resource, you may choose to run JMeter without the GUI. To do so, use the following command options



This is a command line example

```
$jmeter -n -t testPlan.jmx - 1 log.jtl -H 127.0.0.1 -P 8000
```



Step 3

Install XAMP or WAMP or MAMP

USE FOR HANDS ON AND INDIVIDUAL PROJECT





create web applications with Apache2, PHP and a MySQL database.

ART USING WAMPSERVER

Alongside, PhpMyAdmin allows you to manage easily your databases.

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XAMPP Apache + MariaDB + PHP + Perl

What is XAMPP?

XAMPP is the most popular PHP development environment

XAMPP is a completely free, easy to install Apache distribution containing MariaDB, PHP, and Perl. The XAMPP open source package has been set up to be incredibly easy to install and to



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Step 4

Install HESK System

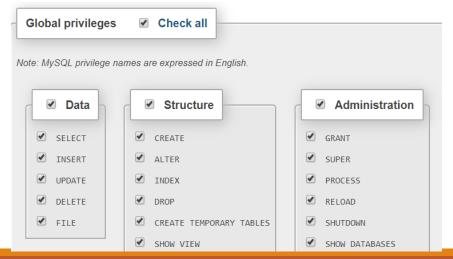
USE FOR HANDS ON

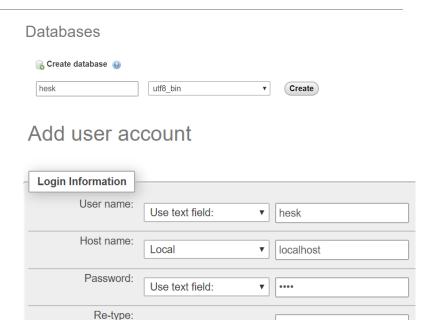




Create HESK database

- 1. Open phpmyadmin
- 2. Create database name 'hesk'
- 3. Create user 'hesk'
- 4. Tick 'Global privileges' and 'Go'

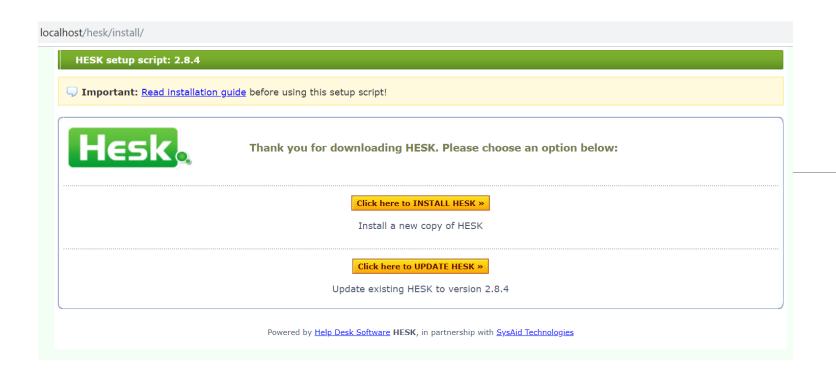




••••

Installing HESK System

- 1. Copy hesk.zip
- 2. Extract hesk.zip
- 3. Copy hesk folder into www directory in XAMP, WAMP or MAMP
- 4. Open browser and open url http://localhost/hesk/install



- 1. Click 'Click here to INSTALL HESK'
- 2. Click 'I ACCEPT (Click to continue)'

HESK setup script: 2.8.4 1. License agreement » 2. Check setup » 3. Setup Database » 4. Finishing touches **Database settings** Tip: Contact your host for help with correct database settings localhost Database Host: Database Name: hesk Database User (login): hesk User Password: hesk Table prefix: hesk_ **HESK** login details Username and password you will use to login into HESK administration. Choose a Username: administrator Choose a Password: administrator Generate a random password

Other info

Help desk timezone: Asia/Kuala_Lumpur - 24 Oct 2019, 09:30

HESK setup script: 2.8.4

1. License agreement » 2. Check setup » 3. Setup Database » 4. Finishing touches



✓ Success: Congratulations, you have successfully completed HESK database setup!

Next steps:

- 1. Delete the /install folder from your server!
- 2. Remember your login details:

Username: administrator Password: administrator

Read HESK quick start guide - or - Skip directly to settings

Configure HESK System

- 1. Open browser and open url http://localhost/hesk/admin
- 2. Login as administrator, password: administrator
- 3. Click 'Settings'
- 4. Click tab General, change URL to http://localhost/hesk/admin
- 5. Click tab **Helpdesk**, change Use-anti SPAM image to 'OFF'
- 6. In tab **Helpdesk**, change Use attachment to 'NO'
- 7. Click 'Save Changes'
- 8. Click 'Logout'

Create user HESK System

- 1. Open browser and open url http://localhost/hesk/admin
- 2. Login as administrator, password: administrator
- 3. Click 'Users'

1. Fill in 'Profile Information'

Add new user Required fields are marked with * Profile information | Permissions | Signature | Preferences | Notifications Real name: * hasiady Email: * hasiady@yahoo.com Username: * hasiady Password: ••••• Confirm password: •••••• Password Strength: ✓ Auto-assign tickets to this user.

2. Change permissions to 'Staff'

Add new user					
Required fields are mark	ed with *				
Profile information	Permissions	Signature	Preferences	Notifications	
3. Tick 'Ca	● s	Staff (you can	limit features ar	eatures and cate nd categories)	gories)
•	Can run re Can run re Can expor	eports (al	,		

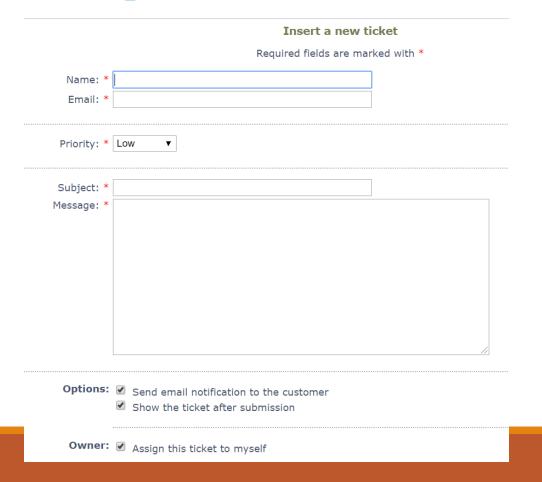
4. Create User

Create user

Reset form data

Login and Create Ticket HESK System

- 1. Open browser and open url http://localhost/hesk/admin
- 2. Login as user
- 3. Click 'New Tickets'
- 4. Fill ticket information
- 5. Click 'Submit Ticket'
- 6. Click 'Logout'





Step 5

Install SUPPORT System

USE FOR INDIVIDUAL PROJECT

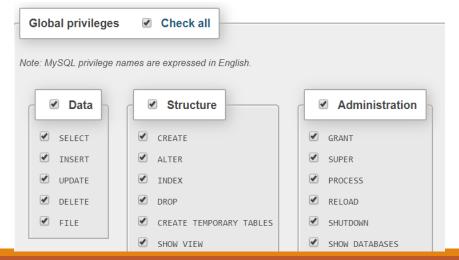


Create SUPPORT database



Create

- 1. Open phpmyadmin
- 2. Create database name 'support'
- 3. Create user 'support'
- 4. Tick 'Global privileges' and 'Go'



Add user account

utf8 bin

Databases

support

🕞 Create database 🔞

Login Information		
User name:	Use text field:	▼ support
Host name:	Local	▼ localhost
Password:	Use text field:	Ψ
Re-type:		******

Installing SUPPORT System

- 1. Copy support.zip
- 2. Extract support.zip
- 3. Copy support/support folder into www directory in XAMP, WAMP or MAMP
- 4. Open browser and open url http://localhost/support



This wizard will help you to configure and install OpenSupports on your website

- 1. Language
- 2. Server requirements
- 3. Database configuration
- 4. User System
- 5. Settings
- O 6. Admin setup
- O 7. Completed

Step 1 of 7 - Select language

Select your preferred language for the installation wizard.



Next



This wizard will help you to configure and install OpenSupports on your website

- 1. Language
- 2. Server requirements
- 3. Database configuration
- O 4. User System
- O 5. Settings
- O 6. Admin setup
- O 7. Completed

Step 2 of 7 - Server requirements

Here are listed the requirements for running OpenSupports. Please make sure that all requirements are satisfied.



Requirement	Value
PHP Version	✓ 7.2.18
PDO Module	✓ Available
File: /api/config.php	✓ Writable
Folder: /api/files	✓ Writable

Previous

Next

1. Language Step 3 of 7 - Database configuration 2. Server requirements Please fill the MySQL database configuration. 3. Database configuration O 4. User System O 5. Settings MySQL server O 6. Admin setup O 7. Completed localhost MySQL server port ? MySQL database name ? support MySQL user support MySQL password ••••• Previous



This wizard will help you to configure and install OpenSupports on your website

- 1. Language
- 2. Server requirements
- 3. Database configuration
- 4. User System
- 5. Settings
- 6. Admin setup
- 7. Completed

Step 4 of 7 - User System

Please select your user system preferences.

Use user system for customers

On

Enable user registration

On

Next



This wizard will help you to configure and install OpenSupports on your website

- 1. Language
- 2. Server requirements
- 3. Database configuration
- 4. User System
- 5. Settings
- O 6. Admin setup
- O 7. Completed

Step 5 of 7 - Settings

Please fill your general system preferences.

Title

Support System

Allow file attachments

Email server address ?

hasiady@yahoo.com

SMTP Server

The configuration of the SMTP server allows the application to send mails. If you do not configure it, no emails will be sent by OpenSupports.



This wizard will help you to configure and install OpenSupports on your website

- 1. Language
- 2. Server requirements
- 3. Database configuration
- 4. User System
- 5. Settings
- 6. Admin setup
- O 7. Completed

Step 6 of 7	- Admin	setup
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Please configure the administrator account.

Admin account name

administrator

Admin account email

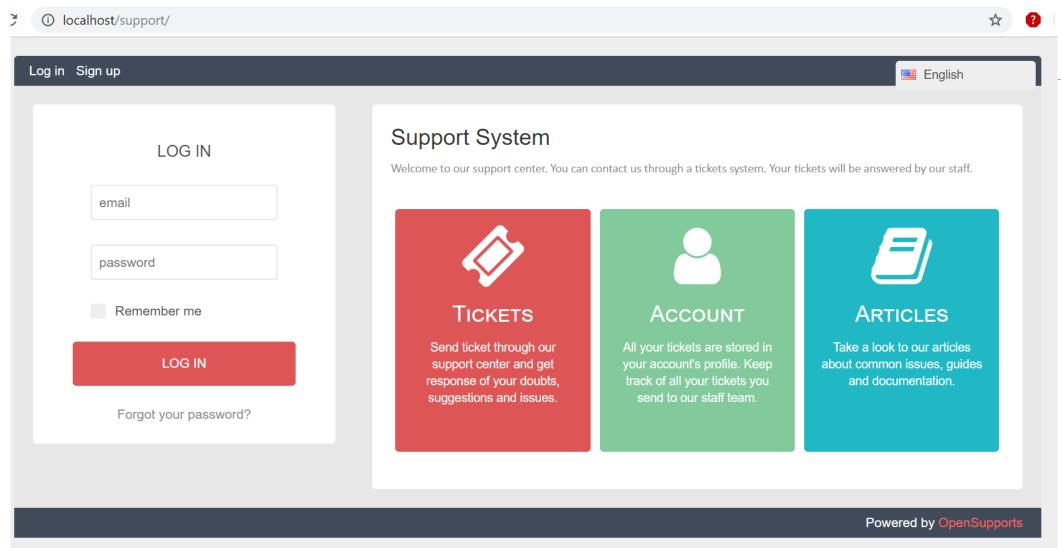
administrator@mail.com

Admin account password ?

administrator

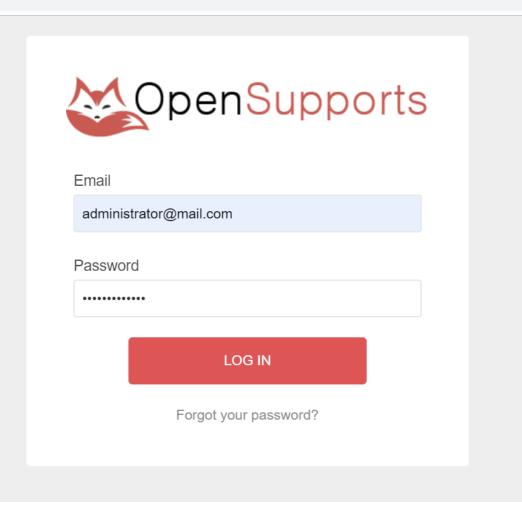
Next

Support System

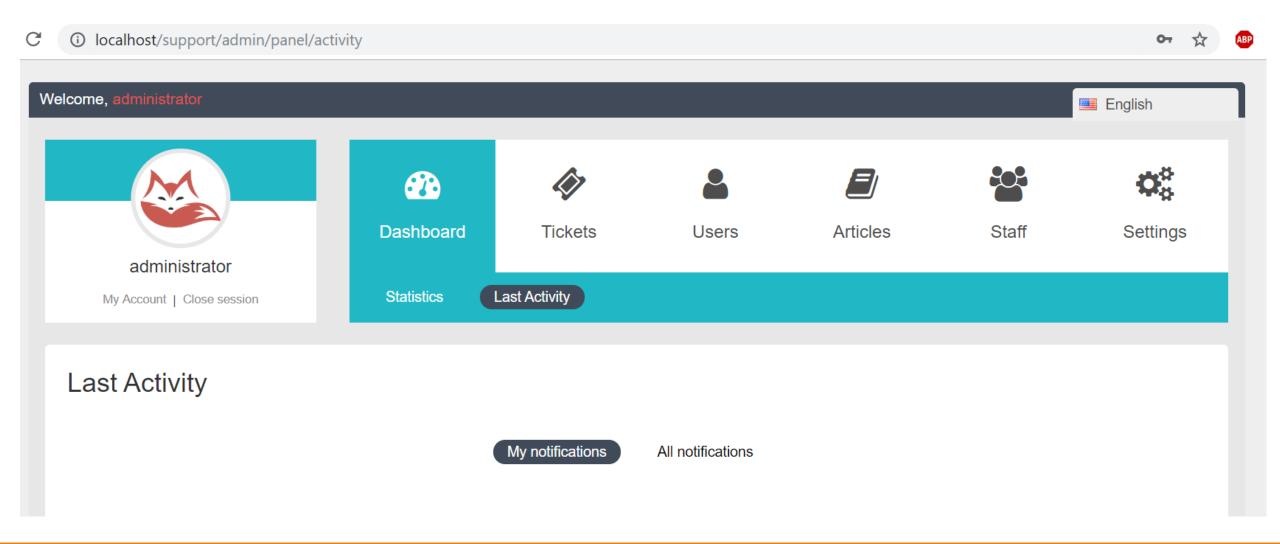


Admin Login

(i) localhost/support/admin



Admin Login



Admin Login - Create User

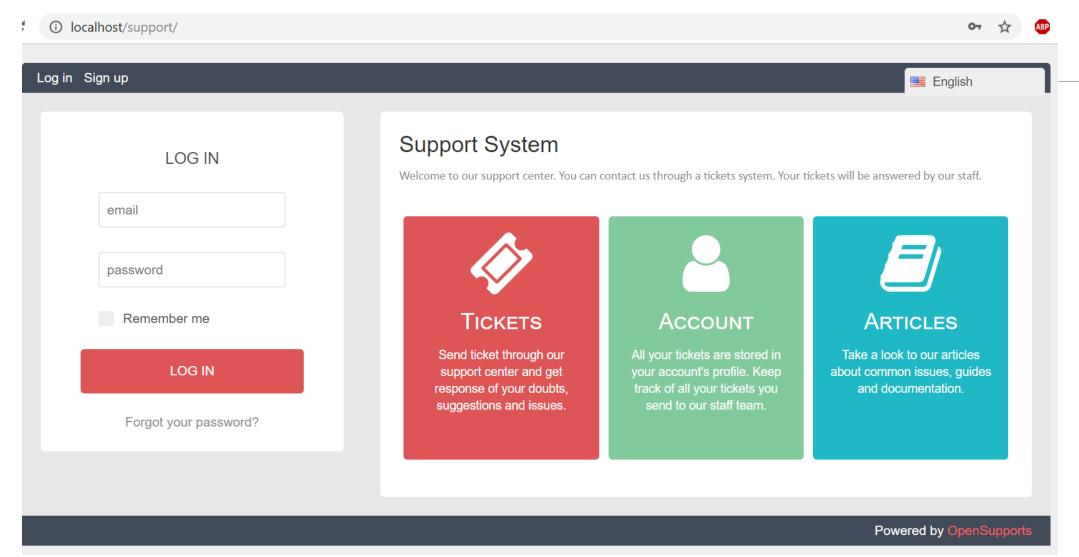
- 1. Click icon 'User'
- 2. Click 'Add User'

Sign up

Here you can create an account for our support center. It is required to send tickets and see documentation.

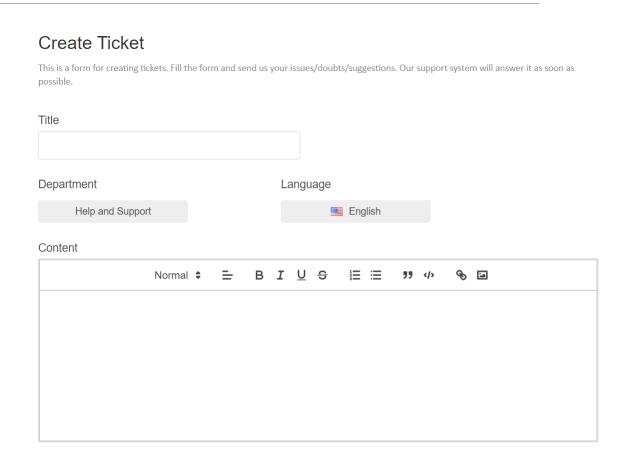
Full name
user1
Email
user1@yahoo.com
Password
•••••
Repeat password
•••••

User Login



User Login - Create Ticket

- 1. Click icon 'Create Ticket'
- 2. Fill in form
- 3. Clik button 'Create Ticket'
- 4. Click 'Close Session'



THANK YOU

