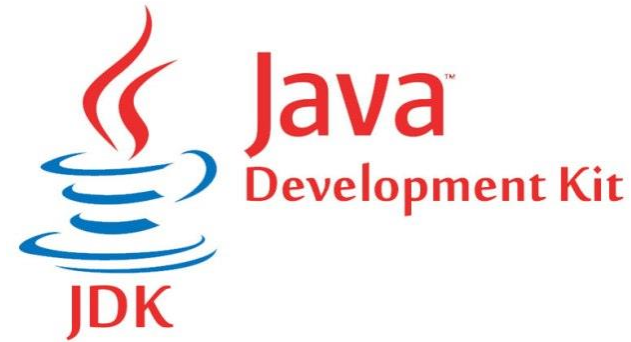




Performance Test Tools
**Installation and
Configuration**



Step 1



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 VM (build 23.25-b01, mixed mode)
C:\Users\Administrator.PC>_
```

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

Step 2

Install JMeter

- USING VERSION 5.1.1



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Download Apache JMeter

We recommend you use a mirror to download our release builds, but you **must** [verify the integrity](#) 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://downloads.apache.org/>. 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:

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 5.4.1 (Requires Java 8+)

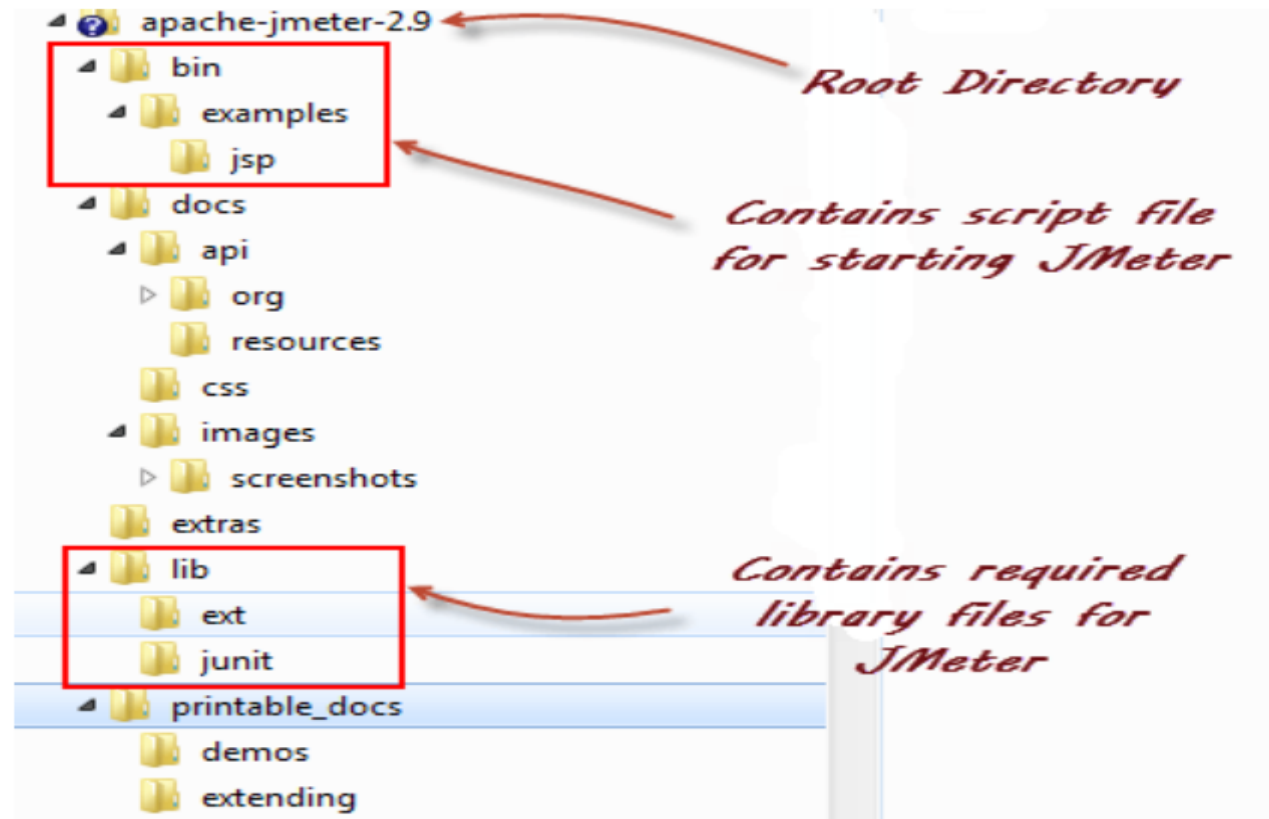
Binaries

[apache-jmeter-5.4.1.tgz sha512 pgp](#)
[apache-jmeter-5.4.1.zip sha512 pgp](#)

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

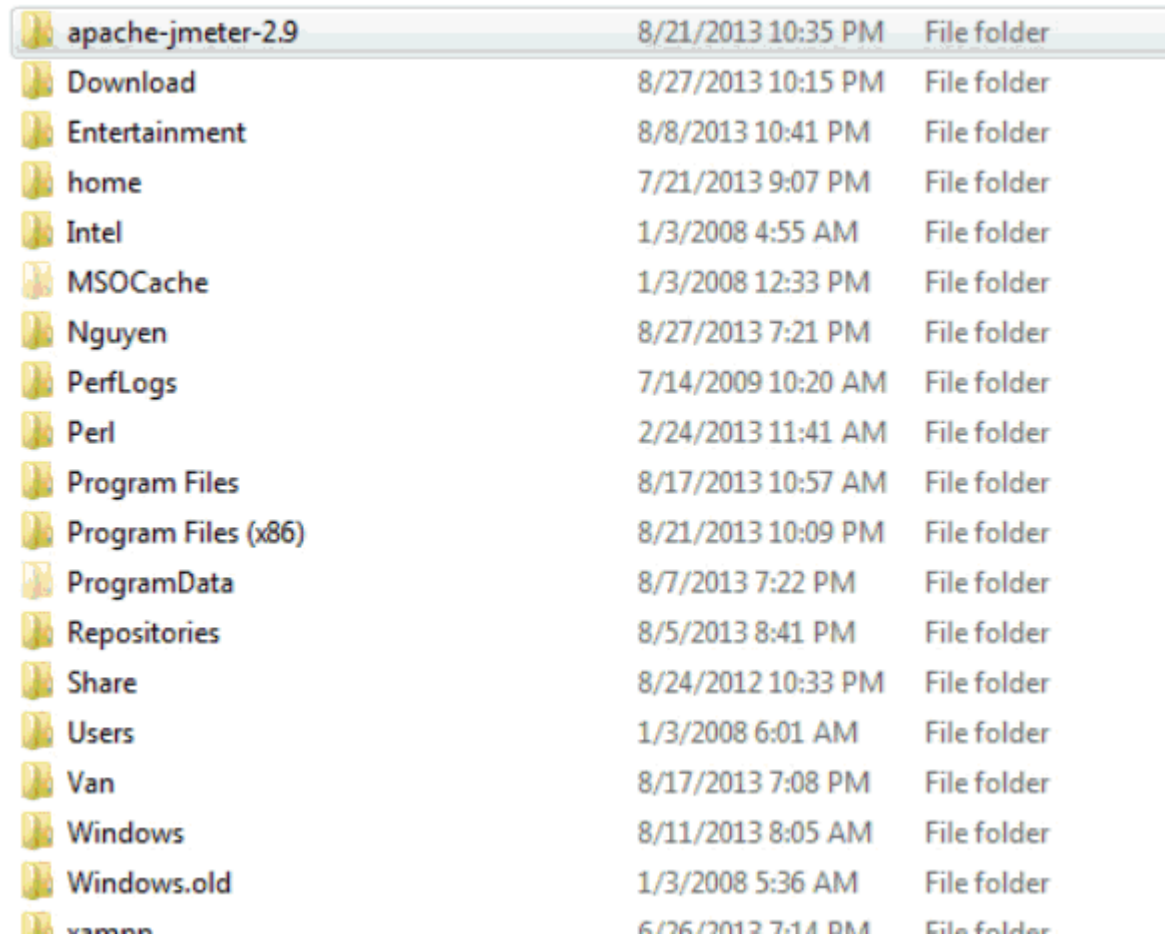
Step 4) Launch JMeter

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
Download	8/27/2013 10:15 PM	File folder
Entertainment	8/8/2013 10:41 PM	File folder
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
Nguyen	8/27/2013 7:21 PM	File folder
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
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
Users	1/3/2008 6:01 AM	File folder
Van	8/17/2013 7:08 PM	File folder
Windows	8/11/2013 8:05 AM	File folder
Windows.old	1/3/2008 5:36 AM	File folder
vamon	6/26/2013 7:14 PM	File folder



Test Plan

Test Plan

Name:

Comments:

User Defined Variables

Name:	Value

-

- Run Thread Groups consecutively (i.e. one at a time)
- Run tearDown Thread Groups after shutdown of main threads
- Functional Test Mode (i.e. save Response Data and Sampler Data)

Selecting Functional Test Mode may adversely affect performance.

Add directory or jar to classpath

Library

Step 3



Install XAMP or WAMP or MAMP

-
- USE FOR HANDS ON AND INDIVIDUAL PROJECT





WampServer
Apache, PHP, MySQL on Windows

[START](#) [DOWNLOAD](#) [FORUM](#)

WAMP SERVER,

a Windows web development environment.

CONTRIBUTION ALTER WAY

WampServer is a Windows web development environment. It allows you to create web applications with Apache2, PHP and a MySQL database. Alongside, PhpMyAdmin allows you to manage easily your databases.

[START USING WAMP SERVER](#)


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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 use.



MAMP & MAMP PRO

Your local web development solution

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'

Global privileges Check all

Note: MySQL privilege names are expressed in English.

<input checked="" type="checkbox"/> Data	<input checked="" type="checkbox"/> Structure	<input checked="" type="checkbox"/> Administration
<input checked="" type="checkbox"/> SELECT	<input checked="" type="checkbox"/> CREATE	<input checked="" type="checkbox"/> GRANT
<input checked="" type="checkbox"/> INSERT	<input checked="" type="checkbox"/> ALTER	<input checked="" type="checkbox"/> SUPER
<input checked="" type="checkbox"/> UPDATE	<input checked="" type="checkbox"/> INDEX	<input checked="" type="checkbox"/> PROCESS
<input checked="" type="checkbox"/> DELETE	<input checked="" type="checkbox"/> DROP	<input checked="" type="checkbox"/> RELOAD
<input checked="" type="checkbox"/> FILE	<input checked="" type="checkbox"/> CREATE TEMPORARY TABLES	<input checked="" type="checkbox"/> SHUTDOWN
	<input checked="" type="checkbox"/> SHOW VIEW	<input checked="" type="checkbox"/> SHOW DATABASES

Databases

Create database

hesk utf8_bin

Add user account

Login Information

User name: Use text field: hesk

Host name: Local localhost

Password: Use text field:

Re-type:

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>

HESK setup script: 2.8.4

Important: [Read installation guide](#) before using this setup script!



Thank you for downloading HESK. Please choose an option below:

[Click here to INSTALL HESK »](#)

Install a new copy of HESK


[Click here to UPDATE HESK »](#)

Update existing HESK to version 2.8.4

Powered by [Help Desk Software HESK](#), in partnership with [SysAid Technologies](#)

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

Database settings

 **Tip:** Contact your host for help with correct database settings

Database Host:	<input type="text" value="localhost"/>
Database Name:	<input type="text" value="hesk"/>
Database User (login):	<input type="text" value="hesk"/>
User Password:	<input type="text" value="hesk"/>
Table prefix:	<input type="text" value="hesk_"/>

HESK login details

Username and password you will use to login into HESK administration.

Choose a Username:	<input type="text" value="administrator"/>
Choose a Password:	<input type="text" value="administrator"/>

[Generate a random password](#)

Other info

Help desk timezone:	<input type="text" value="Asia/Kuala_Lumpur - 24 Oct 2019, 09:30"/>
---------------------	---

[Continue to Step 4](#)

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: *

Email: *

Username: *

Password:

Confirm password:

Password Strength:

Auto-assign tickets to this user.

2. Change permissions to 'Staff'

Add new user

Required fields are marked with *

Profile information | Permissions | **Signature** | Preferences | Notifications

Account type: Administrator (access to all features and categories)
 Staff (you can limit features and categories)

3. Tick 'Can run reports (all)'

- Can run reports (own)
- Can run reports (all)
- Can export tickets

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'**

Insert a new ticket

Required fields are marked with *

Name: *

Email: *

Priority: *

Subject: *

Message: *

Options: Send email notification to the customer
 Show the ticket after submission

Owner: Assign this ticket to myself

THANK YOU



Successful Performance Testing
Engagement