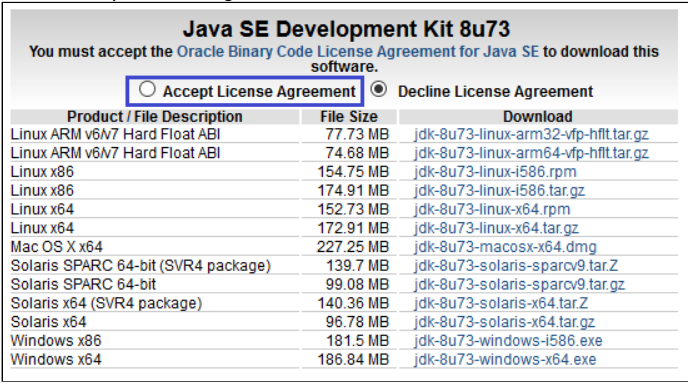
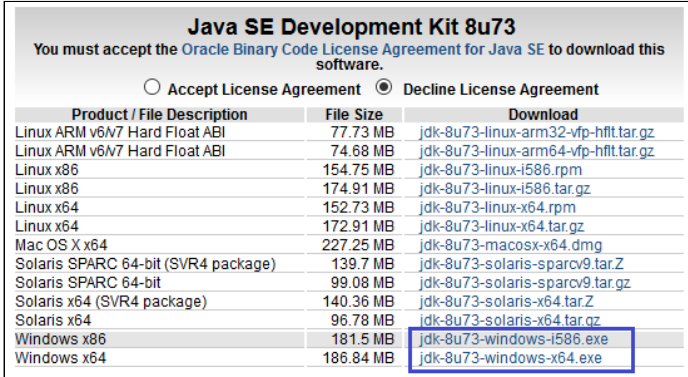
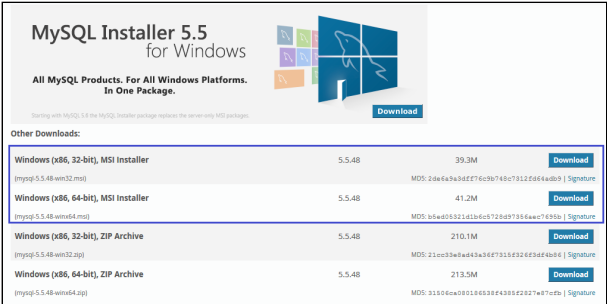
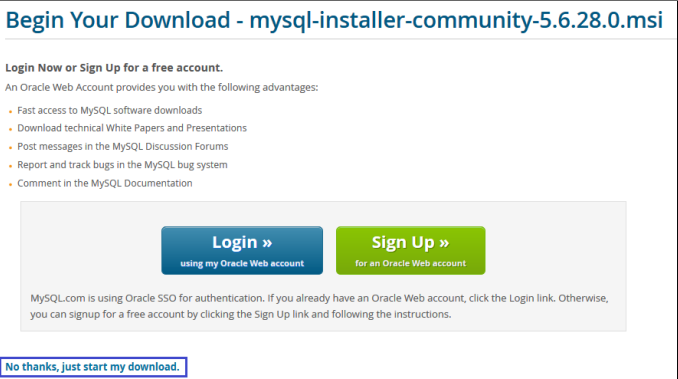
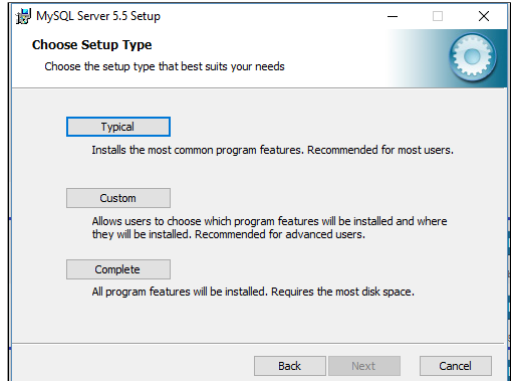
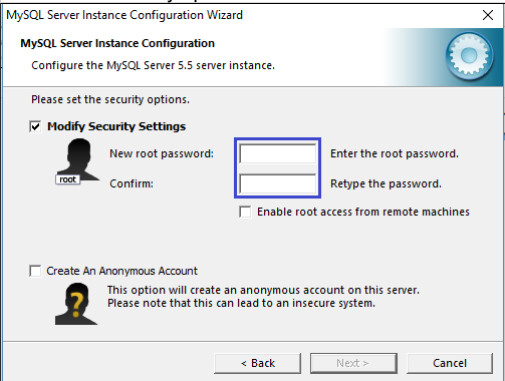


Firecast platform Installation on Windows

interact-platform

Prerequisite Software's Note:- Below are mandatory prerequisite software's with mentioned versions only <ul style="list-style-type: none">JAVA DEVELOPMENT KIT >> VERSION 1.8.0_65 & aboveMYSQL SERVER >> Version 5.5 or 5.6TOMCAT >> Version 7.0.64.0 & above	On this page:
---	---------------

Install Java 1) Before beginning, uninstall any existing versions of Java currently on your computer. 3) Oracle requires that you read the license agreement, then click the button labeled <i>Accept License Agreement</i> . 	2) In your web browser, go to http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html , to download JAVA 1.8. 4) Click the link to download with respect to you system architect i.e Windows x86 for 32bit or Windows x64 for 64bit. 
5) Save the Java installation file to your computer	6) Run & install the Java file.

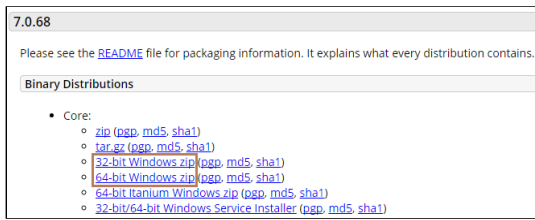
Install MySQL 1) In your web browser, go to http://dev.mysql.com/downloads/mysql/5.5.html#downloads . To download MYSQL server 5.5v. Click on download button with respect to you system architect i.e Windows x86 for 32bit or Windows x64 for 64bit. 	2) You can skip this option by clicking the link at the bottom of the page that says <i>No thanks, just start my download</i> . Click on the Save file to your system. 
3) Run the MySQL installation file. Click on Typical button and click on Next button. 	4) During MySQL installation, use Advanced Configuration > Show Advanced Options & set the MySQL ROOT Password to mysql . Then click on Save button. So your user name will be root and password will be mysql. 

Install Tomcat

Install Tomcat

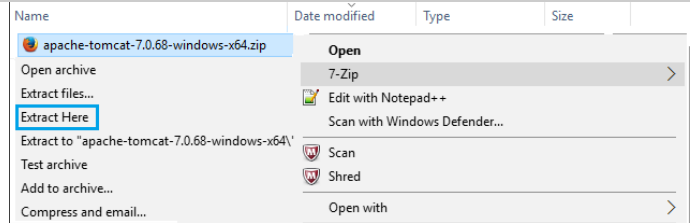
Interact-platform

>> Under the section *Binary Distributions*>>*Core*, click on the link 32-bit windows zip or 64-bit windows zip(with respect to your system architect) to download.

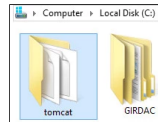


4) Folder: apache-tomcat-7.0.68, gets extracted:-

apache-tomcat-7.0.68	24-02-2016 07:51 ...	File folder
apache-tomcat-7.0.68-windows-x64.zip	24-02-2016 06:27 ...	ZIP File

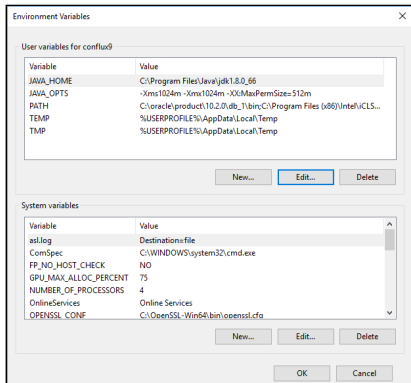


5) Copy & Paste apache-tomcat-7.0.68 folder to c:\(drive) then Rename it to **tomcat**



Create Environment Variables

1) Open your Environment Variables:
Start Menu > Control Panel > System and Security > System > Advanced System Settings > Environment Variables.

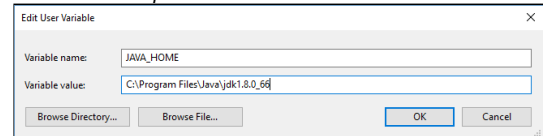


2) Create **JAVA_HOME** variable:

- Click on the **New** button, under the *User Variables* section.
- For *Variable Name*, enter **JAVA_HOME**
- For *Variable Value*, Provide the Java path for example:- **C:\Program Files\Java\jdk1.8.0_66**

NOTE:

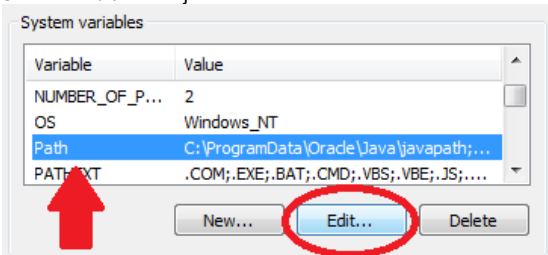
i - If you are running 32-bit Windows, then the path would be ex:- C:\Program Files (x86)\Java\jdk1.8.0_66
ii - Java jdk path "jdk1.8.0_66" will be with respect to the installed version and it may not be the same as mentioned in the above example.



- Click the **OK** button.

3) Edit **PATH** variable:

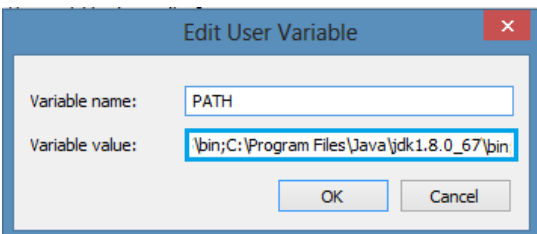
- In the *System Variables* section, scroll down to and select the **Path** variable.
- Click the **Edit** button just below.



- Click your mouse cursor into Variable Value box.
Using your keyboard's right-arrow or End key, move all the way to the far right of the current text in *Variable Value*.
- Add the following text onto the end of the existing *Variable Value* text:
- For **Java path** example:- **;C:\Program Files\Java\jdk1.8.0_66\bin**
- For **Mysql server path** example:- **;C:\Program Files\MySQL\MySQL Server 5.5\bin**

NOTE:

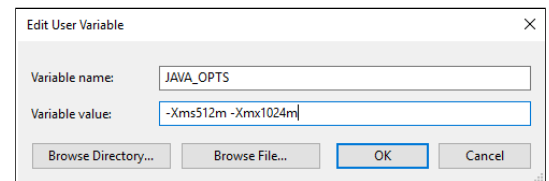
i - There must be exactly one semi-colon between whatever is already in your PATH variable, and the new C:\Program Files\Java\jdk1.8.0_66\bin – don't add a semi-colon if your previous PATH already ended with a semi-colon.
ii - Java jdk path "jdk1.8.0_66" will be with respect to the installed version and it may not be the same as mentioned in the above example.



- Click the **OK** button

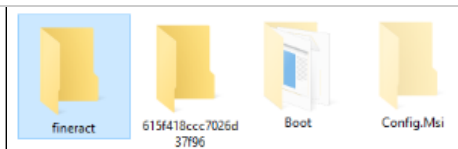
4) Create **JAVA_OPTS** variable:

- a. Click the **New...** button again, under the *User Variables* section.
- b. For *Variable Name*, enter **JAVA_OPTS**
- c. For *Variable Value*, example **-Xms512m -Xmx1024m**
Note: Variable value example can be changed with respect to the system memory size for example: -Xms512m -Xmx1024m



Download Fineract

fineract-platform



>> Go inside the created folder(ex-fineract) then execute, this will download platform code:-

git clone <https://github.com/openMF/incubator-fineract.git>

```
MINGW32/c/fineract
Welcome to Git (version 1.8.3-preview20130601)
Run 'git help git' to display the help index.
Run 'git help <command>' to display help for specific commands.
confluc9@CONFLUX-9 ~
$ cd c:
confluc9@CONFLUX-9 /c
$ cd fineract/
confluc9@CONFLUX-9 /c/fineract
$ git clone https://github.com/apache/incubator-fineract_
```

Wait for download completion and move to next step once it's done.

4) Go to incubator-fineract\build\distributions>> then unzip fineract-platform.

Local Disk (C:) > fineract > incubator-fineract > fineract-provider > build > distributions			
Name	Date modified	Type	Size
fineractplatform-16.01.2.RELEASE.zip	17-03-2016 05:37 ...	ZIP File	58,939 KB
fineract-provider.tar	17-03-2016 05:37 ...	WinZip	71,280 KB
fineract-provider.zip	17-03-2016 05:37 ...	ZIP File	62,600 KB

3) Go to, incubator-fineract>>fineract-provider

then execute below command

gradle clean dist

```
confluc9@CONFLUX-9 /c/fineract
$ cd incubator-fineract/
confluc9@CONFLUX-9 /c/fineract/incubator-fineract (master)
$ cd fineract-provider/
confluc9@CONFLUX-9 /c/fineract/incubator-fineract/fineract-provider (master)
$ gradle clean dist
```

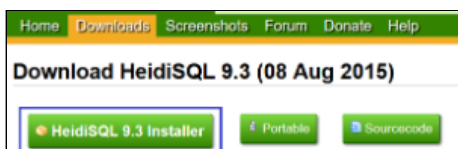
once successful move to next step.

To enable oauth2 add *-Psecurity=oauth* to the command.

To enable two factor authentication add *-Ptwofactor=enabled* to the command.

Initialize MySQL data

1) Download HEIDISQL from:- <http://www.heidisql.com/download.php> & Save the installation file to your computer.

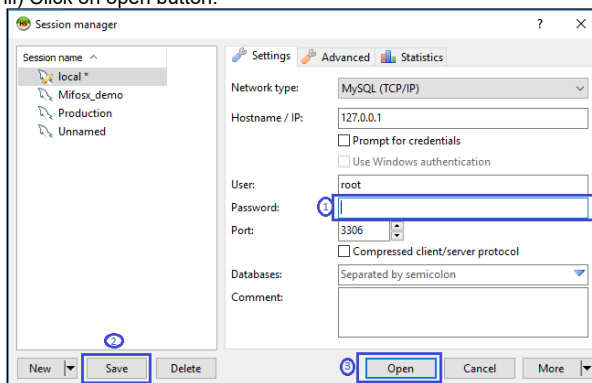


2) Run the HeidiSQL installation file & setup HeidiSQL:

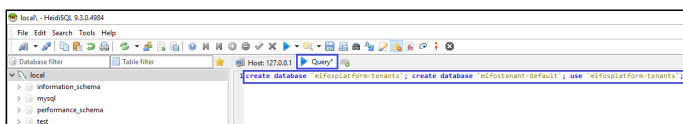
i) For local - Provide mysql password as **mysql**.

ii) Click on Save button.

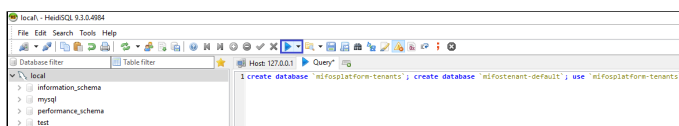
iii) Click on open button.



4) Copy the following database command and paste it into the large white box titled **Query**
create database `mifosplatform-tenants`; create database `mifostenant-default`; use `mifosplatform-tenants`;



5) Click on Run button to Execute the query. .

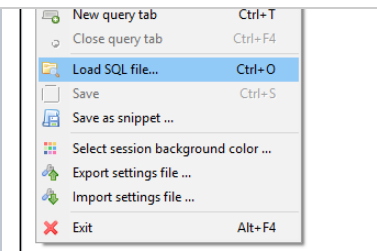


6) On heidisql, click on File>>Load SQL file..

7) Through Load SQL file window,

- Navigate to the location where you extracted the Mifos application files.
- Navigate to the **database** folder, inside that location.
- Select the file **mifosplatform-tenants-first-time-install.sql** and click **Open**.

Run the first-time-install script, by clicking **Run Query** button & once its successful close heidisql application.



Tomcat - Setup

1) Setting up Lib folder

a) Download **drizzle jdbc 1.3** jar file from <http://www.drizzle.org/content/download>

b) Once it's downloaded copy & paste it to **lib** folder, Go to **Tomcat>>lib** folder.

Note: If tomcat-jdbc.jar file is not available in the tomcat>>lib folder then you could download and paste it from: <http://www.java2s.com/Code/JarDownload/tomcat-jdbc/tomcat-jdbc.jar.zip>

2) Generate keystore

Generate a new keystore using java keytool :

>> Open command prompt
>> Go to the path where your JAVA>>bin folder is located.
>> Run this command to generate the key: **keytool -genkey -alias tomcat -keyalg RSA**
>> Then provide the password.

For example:

```
C:\Program Files\Java\jdk1.7.0_67\bin>keytool -genkey -alias tomcat -keyalg RSA
Enter keystore password: _
```

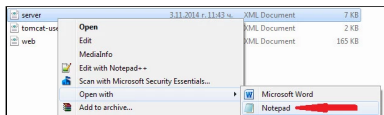
Provide input and type in y for the last question to confirm.

```
Re-enter new password:
What is your first and last name?
[Unknown]: john n
What is the name of your organizational unit?
[Unknown]: xyz dept
What is the name of your organization?
[Unknown]: xyz company
What is the name of your City or Locality?
[Unknown]:
What is the name of your State or Province?
[Unknown]: us
What is the two-letter country code for this unit?
[Unknown]: 91
Is CN=john n, OU=xyz dept, O=xyz company, L=Unknown, ST=us, C=91 correct?
[no]: y_
```

Note: Once the keystore is created, it should be placed in your home directory. For Example: **C:/Users/john/.keystore**

Tomcat - Setup

fineract-platform



b) Delete everything in it and copy-paste the following right side entire content of the page code:

c) Once content is pasted in server.xml, Below mentioned are to be modified with respect to your system & settings:

i - **Key store path** should be modified with your key store path location

Example:- keystoreFile="**C:/Users/john/.keystore**"

ii - **Key store password** (which was provided while creating the key), should be modified

Example:- keystorePass="**xyz123**"

iii - **MYSQL credentials** should be modified

Example:- username="**root**" & password="**mysql**"

```
<Listener className="org.apache.catalina.core.JreMemoryLeakPreventionListener" />
<Listener className="org.apache.catalina.mbeans.GlobalResourcesLifecycleListener" />
<Listener className="org.apache.catalina.core.ThreadLocalLeakPreventionListener" />
```

```
<GlobalNamingResources>
<Resource name="UserDatabase" auth="Container"
type="org.apache.catalina.UserDatabase"
description="User database that can be updated and saved"
factory="org.apache.catalina.users.MemoryUserDatabaseFactory"
pathname="conf/tomcat-users.xml"
/>
```

```
<Resource type="javax.sql.DataSource"
name="jdbc/mifosplatform-tenants"
factory="org.apache.tomcat.jdbc.pool.DataSourceFactory"
driverClassName="org.drizzle.jdbc.DrizzleDriver"
url="jdbc:mysql:thin://localhost:3306/mifosplatform-tenants"
username="root"
password="mysql"
initialSize="3"
maxActive="10"
maxIdle="6"
minIdle="3"
validationQuery="SELECT 1"
testOnBorrow="true"
testOnReturn="true"
testWhileIdle="true"
timeBetweenEvictionRunsMillis="30000"
minEvictableIdleTimeMillis="60000"
logAbandoned="true"
suspectTimeout="60"
/>
```

```
</GlobalNamingResources>
```

```
<Service name="Catalina">
```

```
<Connector protocol="org.apache.coyote.http11.Http11Protocol"
port="8443" maxThreads="200" scheme="https"
secure="true" SSLEnabled="true"
keystoreFile="C:/Users/john/.keystore"
keystorePass="xyz123"
clientAuth="false" sslProtocol="TLS"
URIEncoding="UTF-8"
compression="force"
compressableMimeType="text/html,text/xml,text/plain,text/javascript,text/css"/>
```

```
<Engine name="Catalina" defaultHost="localhost">
```

```
<Realm className="org.apache.catalina.realm.LockOutRealm">
```

```
<Realm className="org.apache.catalina.realm.UserDatabaseRealm" resourceName="UserDatabase"/>
</Realm>
```

```
<Host name="localhost" appBase="webapps" unpackWARs="true" autoDeploy="true">
```

```
<Valve className="org.apache.catalina.valves.AccessLogValve" directory="logs"
prefix="localhost_access_log." suffix=".log"
pattern="%h %l %u %t "%r" %s %b" />
```

```
</Host>
```

```
</Engine>
```

```
</Service>
```

```
</Server>
```

4) Save modified server.xml page

Press **Ctrl + S** or **File>Save**.

5) Close Notepad.

Drop Fineract into Tomcat folder

1) fineract-provider.war to tomcat>>webapps folder

Copy "**fineract-provider.war**" file from unzipped folder, C:\fineract\incubator-fineract\fineract-provider\build\distributions\fineractplatform-17.07.01.RELEASE

Local Disk (C:) > fineract > incubator-fineract > fineract-provider > build > distributions > fineractplatform-16.01.2.RELEASE >				
Name	Date modified	Type	Size	
api-docs	17-03-2016 06:11 ...	File folder		
database	17-03-2016 06:11 ...	File folder		
fineract-provider.war	17-03-2016 05:37 ...	WAR File	66,510 KB	
How to run Fineract.txt	17-03-2016 05:27 ...	Text Document	2 KB	
LICENSE.md	17-03-2016 05:27 ...	MD File	1 KB	
README.md	17-03-2016 05:27 ...	MD File	4 KB	
runfineract.bat	17-03-2016 05:27 ...	Windows Batch File	1 KB	
runfineract.sh	17-03-2016 05:27 ...	Shell Script	1 KB	

2) Paste it to tomcat\webapps folder

> tomcat > webapps >			
Name	Date modified	Type	Size
docs	27-08-2015 02:47 ...	File folder	
examples	27-08-2015 02:47 ...	File folder	
host-manager	27-08-2015 02:47 ...	File folder	
manager	27-08-2015 02:47 ...	File folder	
ROOT	18-02-2016 01:12 ...	File folder	
fineract-provider.war	24-02-2016 12:30 ...	WAR File	71,267 KB

Start Fineract-platform

1) Go to "C:\tomcat\bin" folder, Run "startup.bat" by clicking it.

2) Application gets started

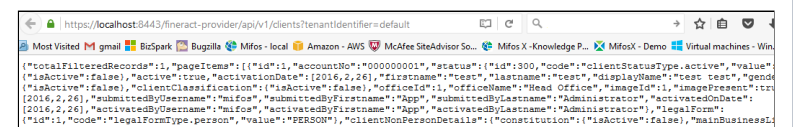
```
Feb 28, 2015 5:36:49 PM org.apache.coyote.http11.Protocol init
INFO: Initializing ProtocolHandler ["http-bio-8443"]
Feb 28, 2015 5:36:48 PM org.apache.catalina.startup.Catalina load
INFO: Initialization processed in 2439 ms
Feb 28, 2015 5:36:49 PM org.apache.catalina.core.StandardService startInternal
INFO: Starting service Catalina
Feb 28, 2015 5:36:49 PM org.apache.catalina.core.StandardEngine startInternal
```

File Name	Size	MD5 Hash	SHA1 Hash	SHA256 Hash	File Type	File Size
common-daemon-native.tar.gz	28-01-2015 21:23	WinZipper			201 KB	
configtest.bat	28-01-2015 21:23	Windows Batch File			2 KB	
configtest.sh	28-01-2015 21:23	Shell Script			2 KB	
daemon.sh	28-01-2015 21:23	Shell Script			8 KB	
digest.bat	28-01-2015 21:23	Windows Batch File			3 KB	
digest.sh	28-01-2015 21:23	Shell Script			2 KB	
setclasspath.bat	28-01-2015 21:23	Windows Batch File			4 KB	
setclasspath.sh	28-01-2015 21:23	Shell Script			4 KB	
shutdown.bat	28-01-2015 21:23	Windows Batch File			2 KB	
shutdown.sh	28-01-2015 21:23	Shell Script			2 KB	
startup.bat	28-01-2015 21:23	Windows Batch File			2 KB	
startup.sh	28-01-2015 21:23	Shell Script			2 KB	
tomcat-juli.jar	28-01-2015 21:23	Executable Jar file			38 KB	
tomcat-native.tar.gz	28-01-2015 21:23	WinZipper			379 KB	

[illegible]

```
INFO: Deploying web application directory C:\tomcat\apps\manager
Feb 28, 2015 5:38:28 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deployment of web application directory C:\tomcat\apps\manager has finished in 527 ms
Feb 28, 2015 5:38:28 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory C:\tomcat\apps\manager
Feb 28, 2015 5:38:28 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deployment of web application directory C:\tomcat\apps\ROOT has finished in 210 ms
Feb 28, 2015 5:38:28 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-bio-8443"]
Feb 28, 2015 5:38:28 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in 106476 ms
```

<https://localhost:8443/fineract-provider/api/v1/clients?tenantIdentifier=default>



Fineract-platform Installation on Windows

Fineract Installation on Ubuntu Server

fineract installation on windows kb-how-to-article

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