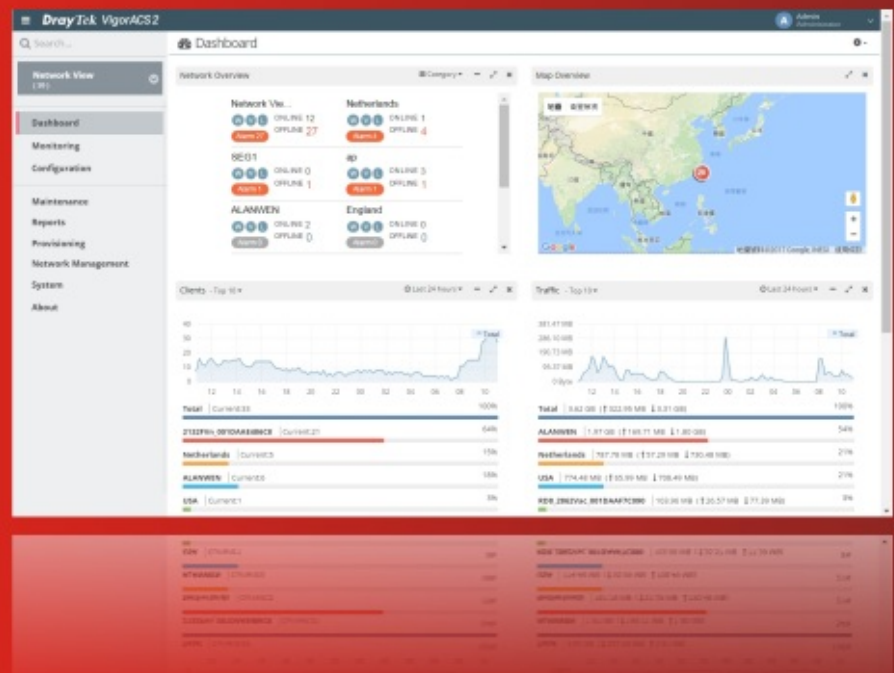


DrayTek

VigorACS 2

Unified Management System



Quick Start Guide

V1.0

VigorACS 2

Unified Management System

Manual Version: 1.0

Software Version: V2.3.1

Date: August 17, 2018

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1. Platform for Windows 7 or 10

Please follow the procedure listed below to install VigorACS 2 completely. The installation for different platforms might be different.

To start up the VigorACS, the normal procedure is listed as follows:

- (I) Installation for Java
- (II) Installation for MariaDB
- (III) Installation for VigorACS 2
- (IV) Start MySQL/MariaDB Database.
- (V) Edit VigorACS IP.
- (VI) Start VigorACS.

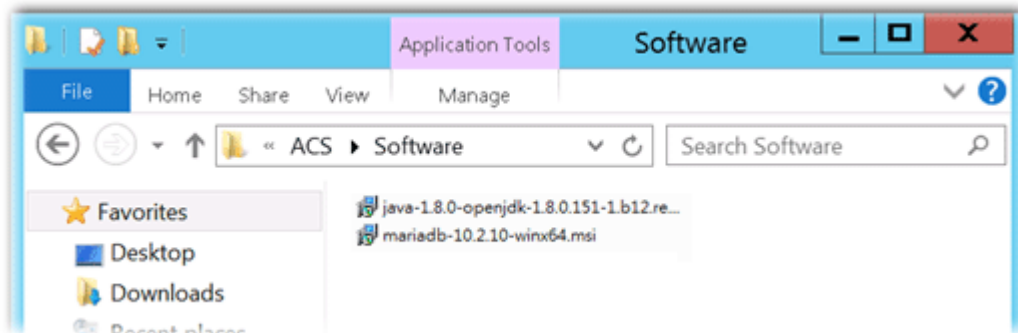


Info

VigorACS 2 can be operated only by a host with 64-bit operation system.

1.1 Installation for Java

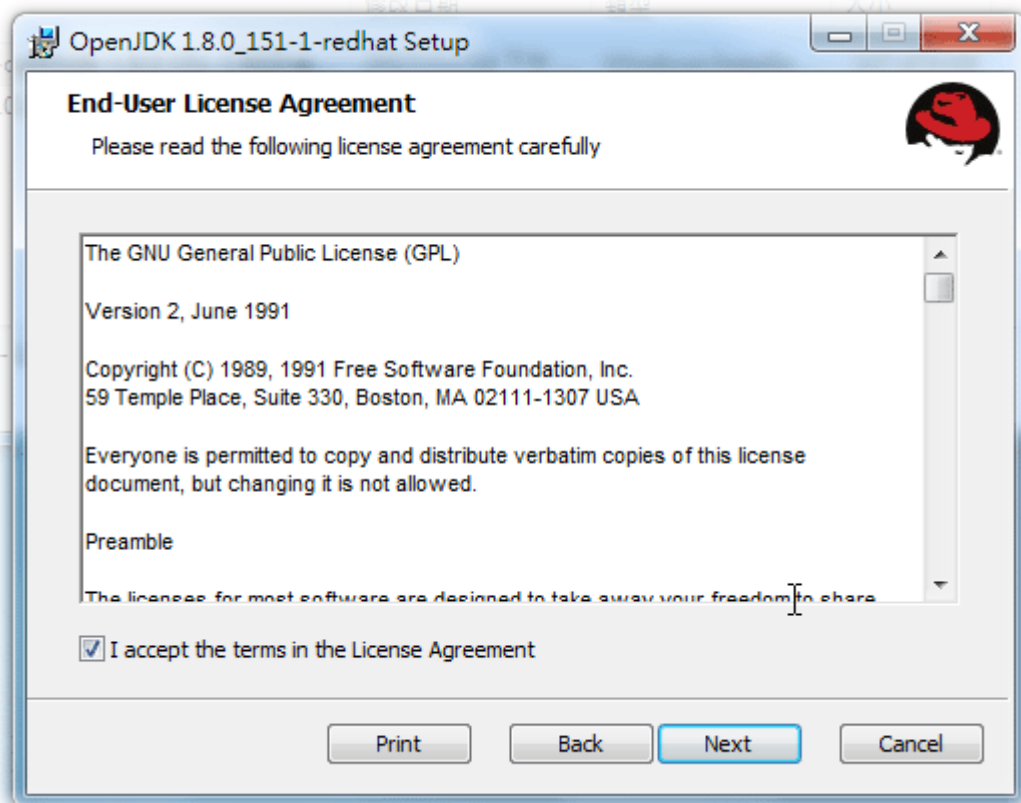
1. Install Java by clicking "java-1.8.0-openjdk-1.8.1.151-1.b12..." to execute the installation.



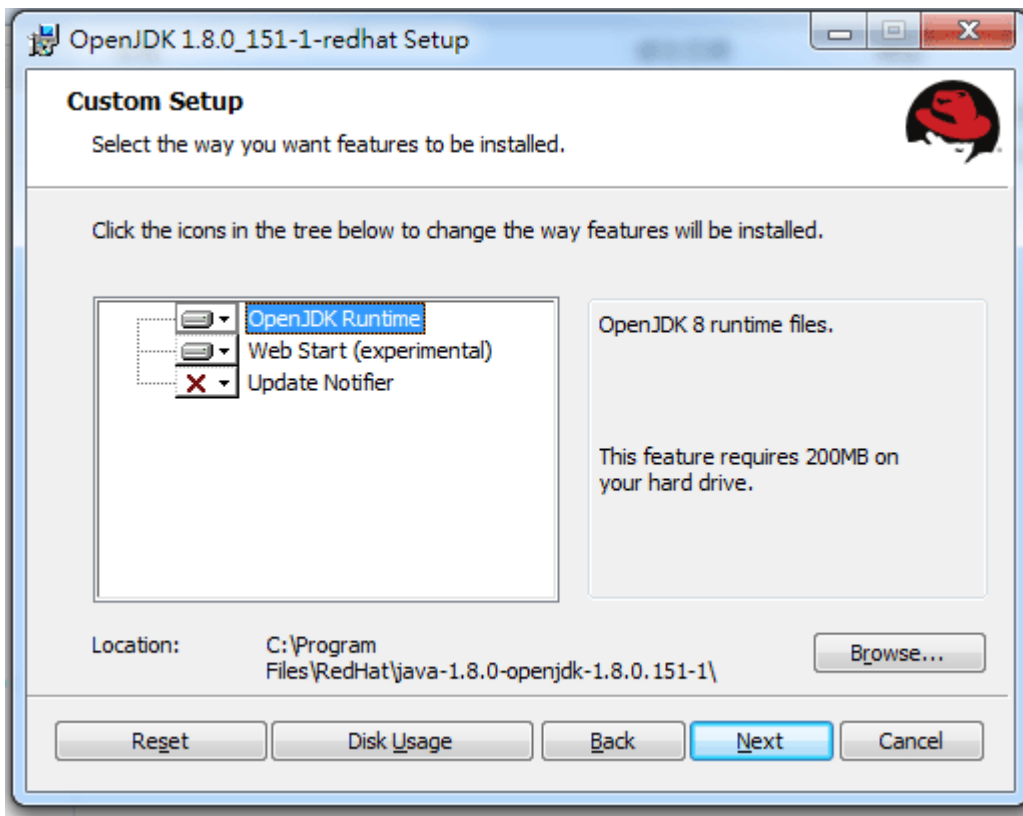
2. The first page will be shown as follows. Click Next to get into next page.



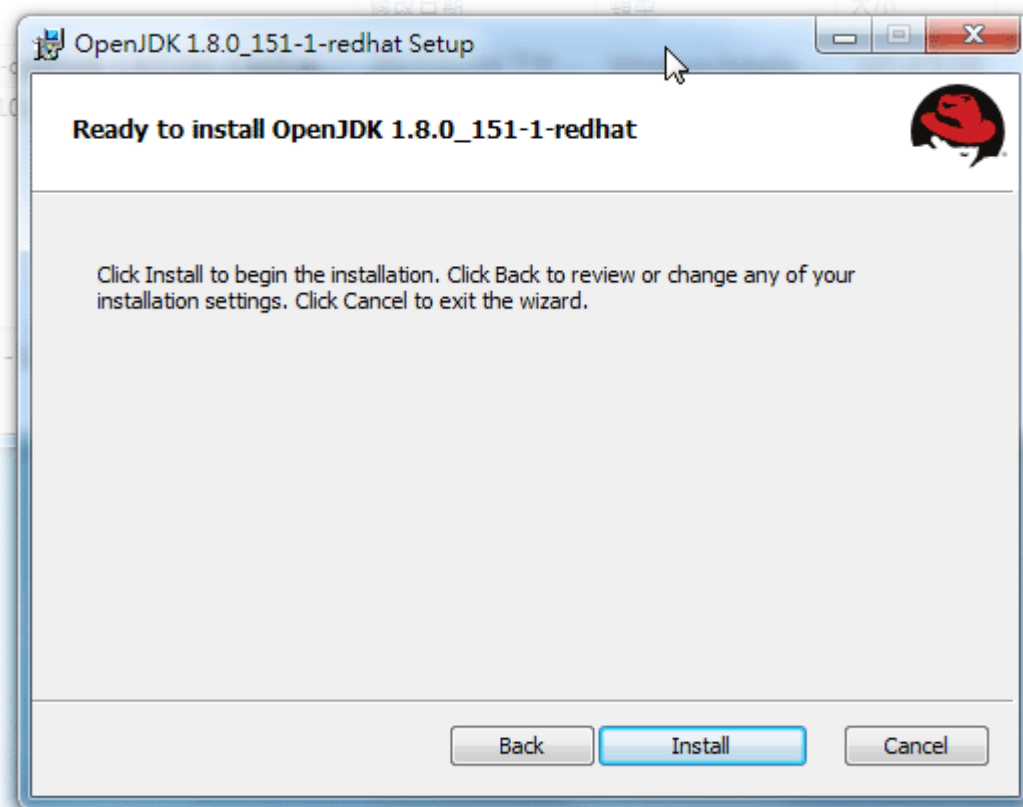
3. Then, check "I accept the terms..." and click the Next button.



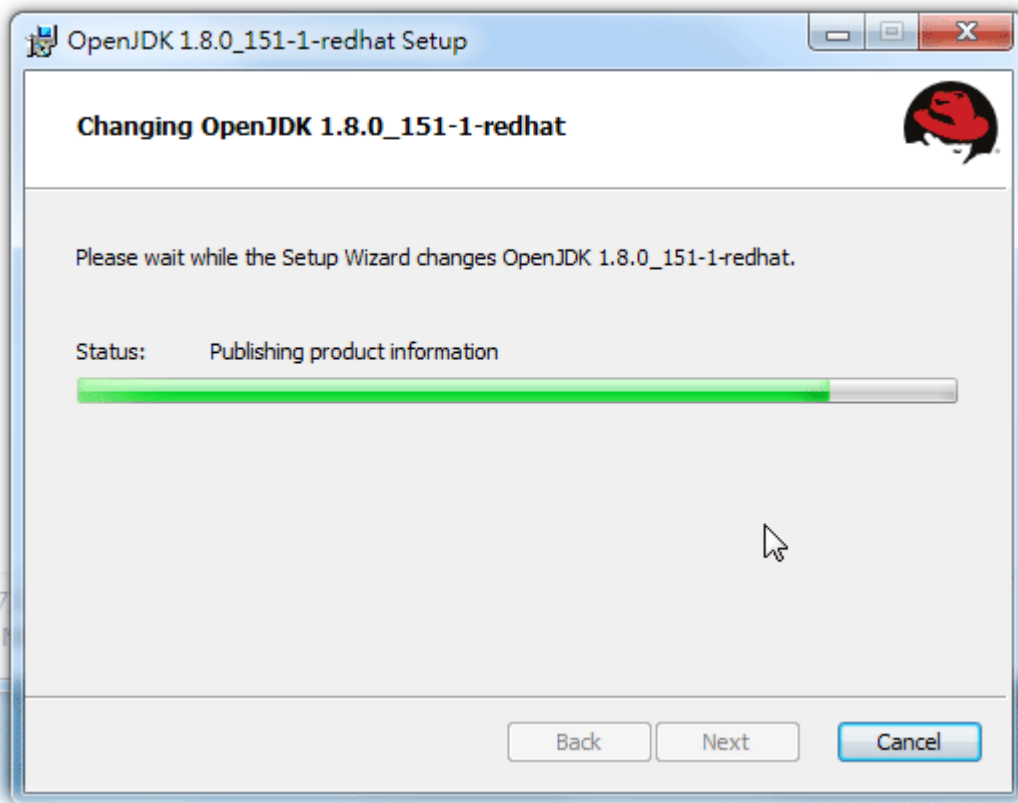
- In this page, optional features will be listed for you to specify the destination folder for JAVA driver installation. Choose the one you need and click **Next**.



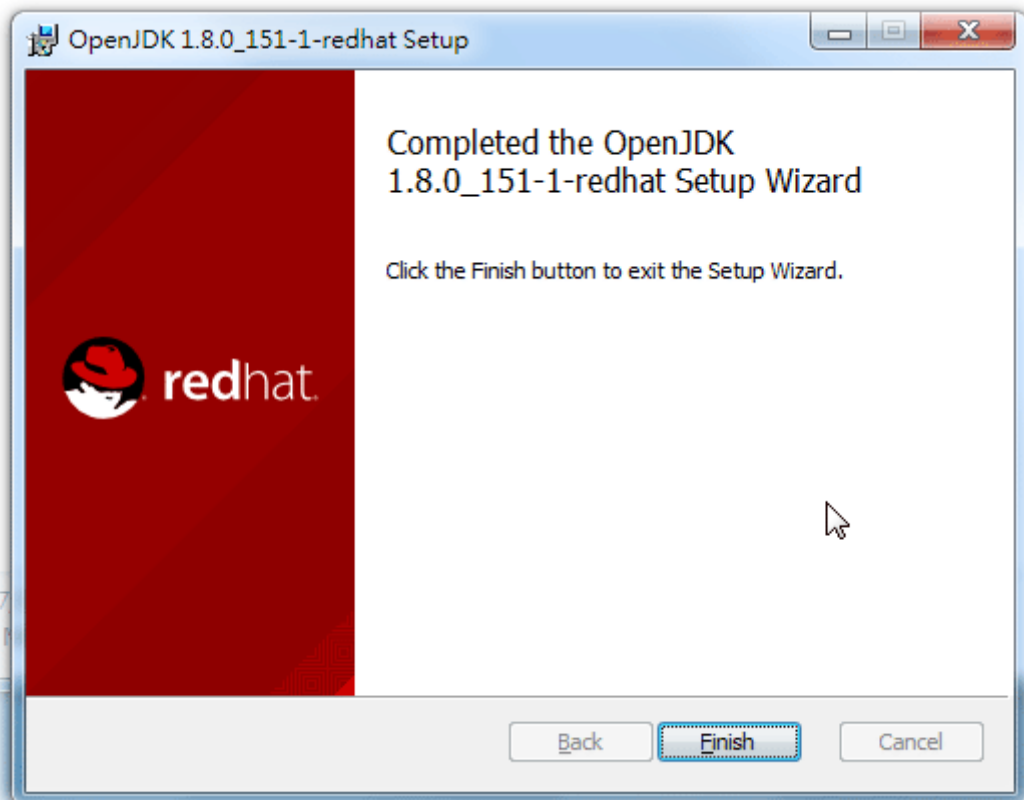
- In the following page, just click **Install**.



6. Wait for a while to install the required features.

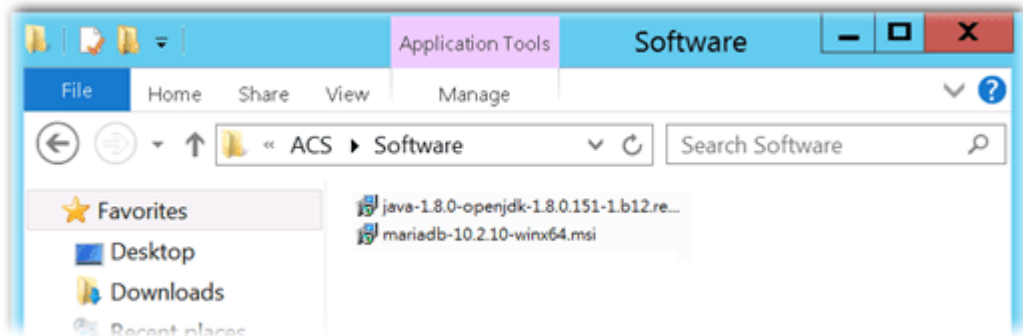


7. When the following page appears, the installation is completed. Click **Finish** to exit the installing program.

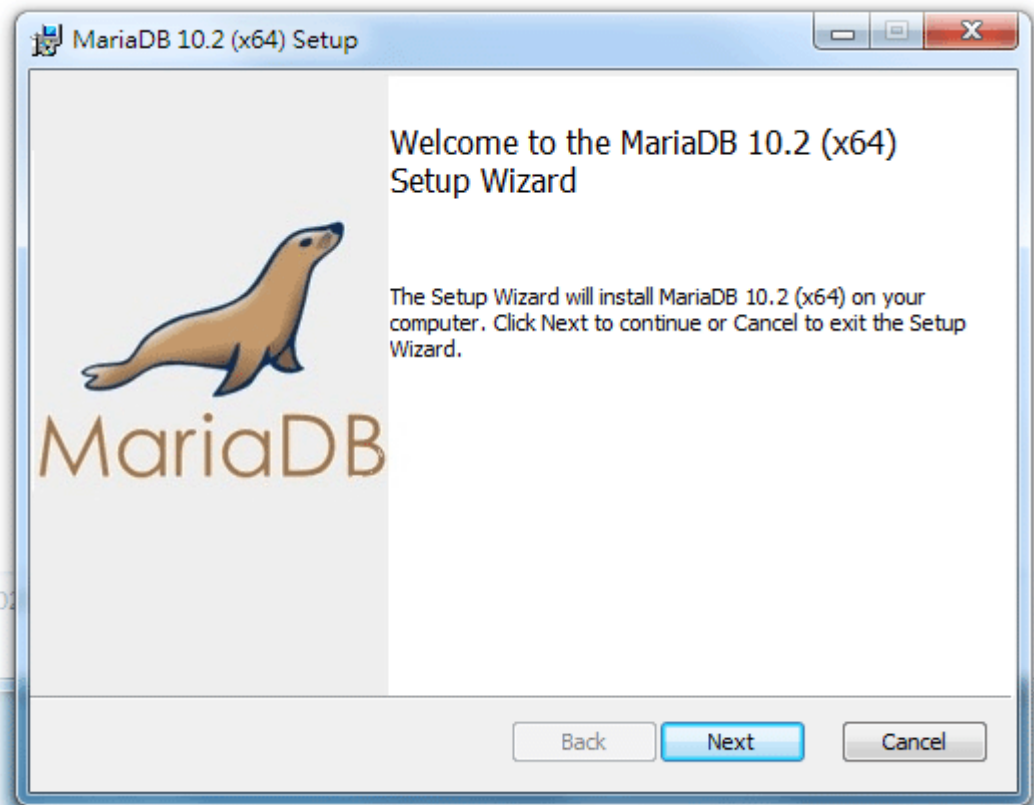


1.2 Installation for MariaDB

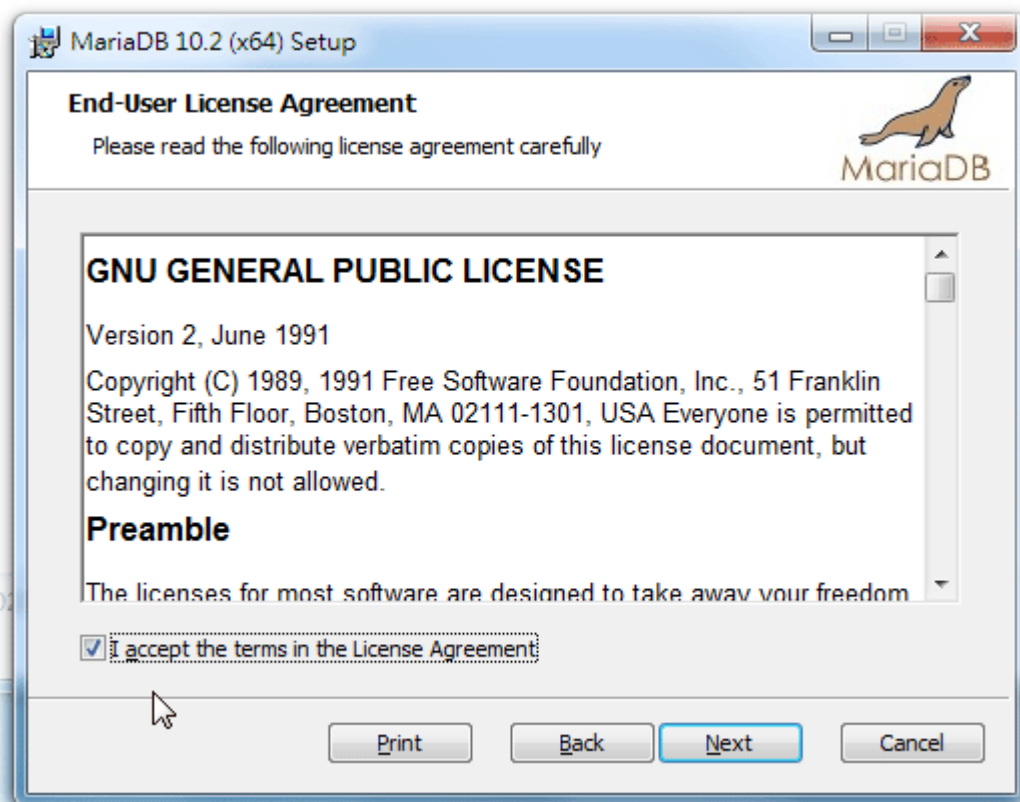
1. Install MariaDB by clicking “mariadb-10.2.10-winx64” (based on your PC condition) it to execute the installation.



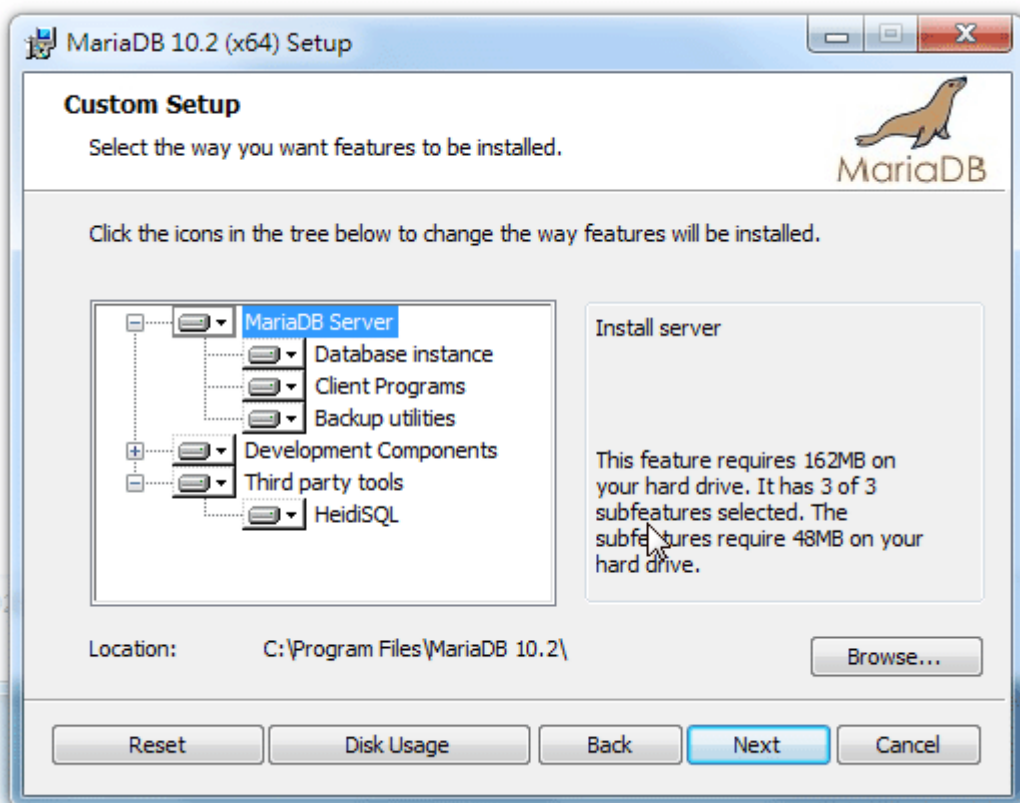
2. When the welcome screen appears, please click Next for next step.



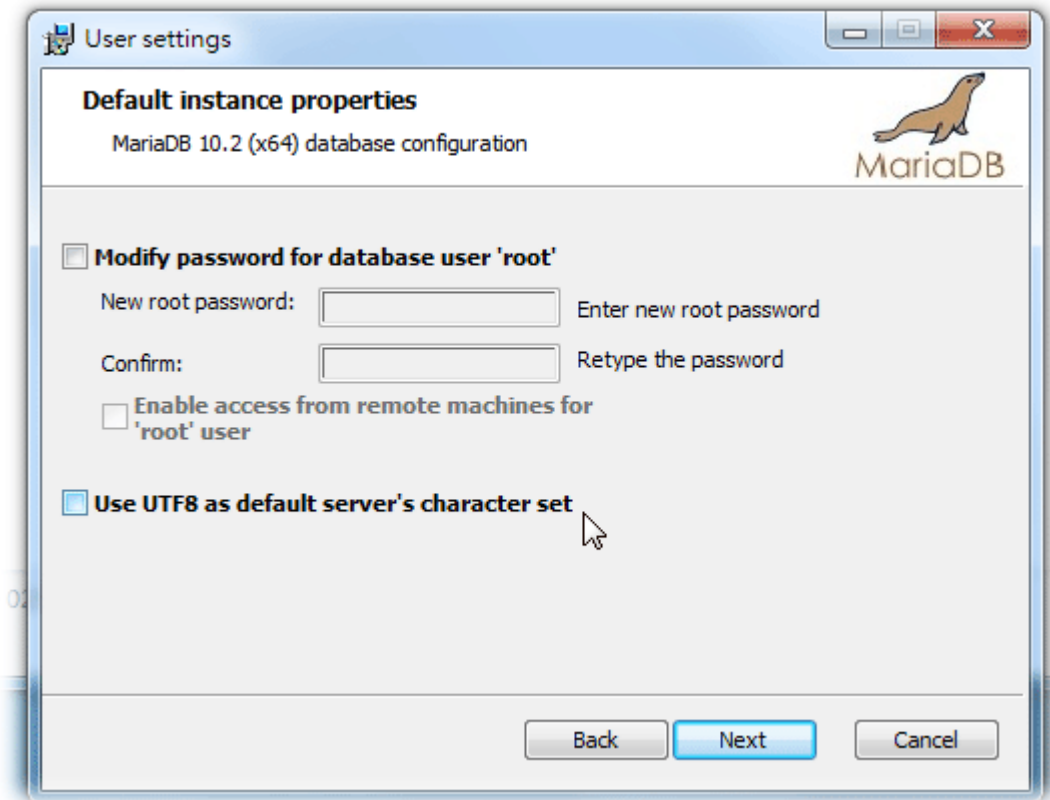
3. On this dialog box, check the box of "I accept the terms...." and click Next.



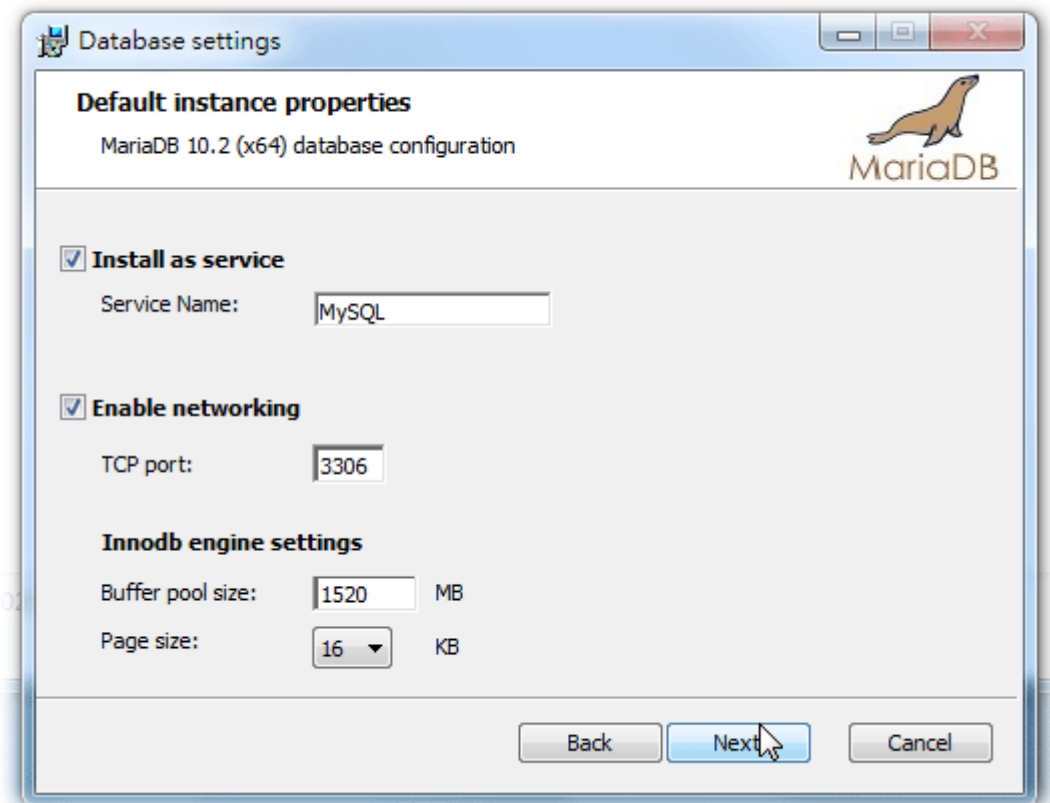
4. Select the way for the features to be installed. Then click Next.



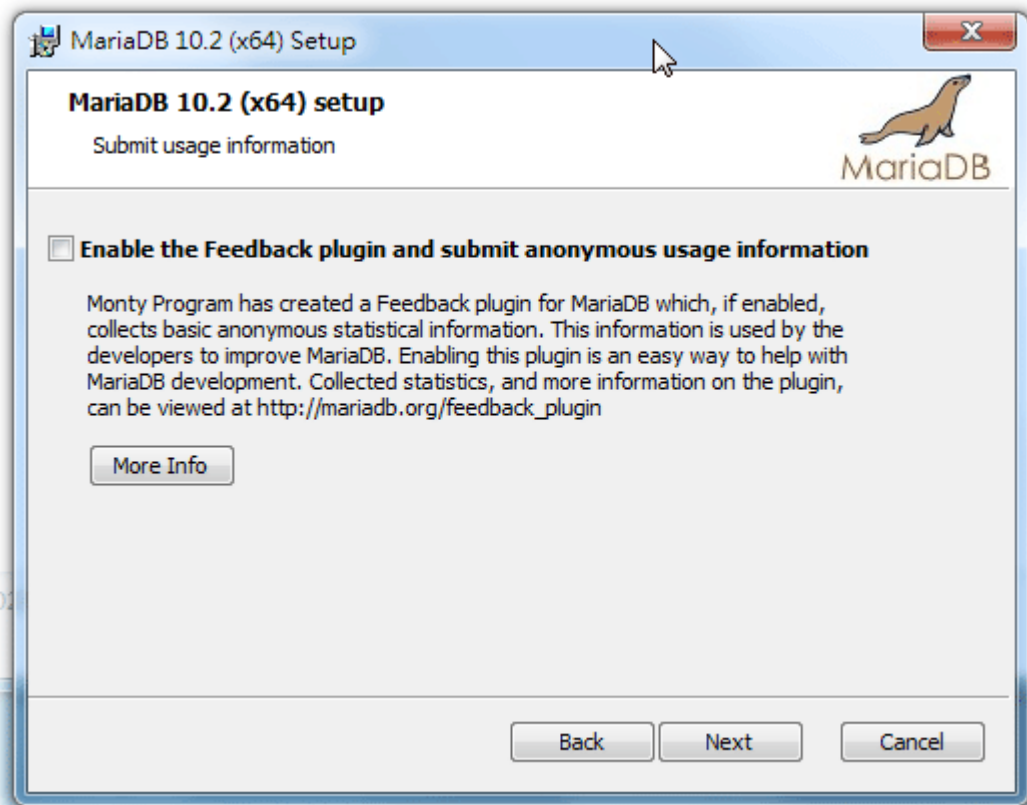
5. If you want to configure password for MariaDB server, please check **Modify password...** and type the password. It depends on your request. Otherwise, simply click **Next**.



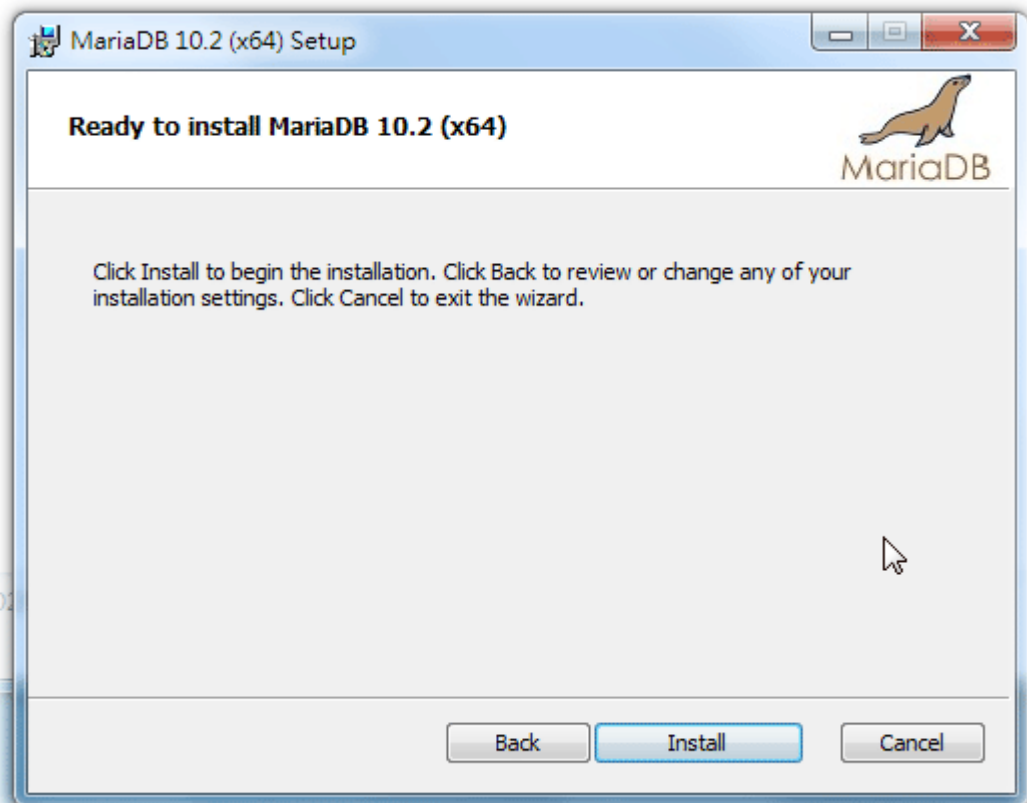
6. Modify the default instance properties if required. Then click **Next**.



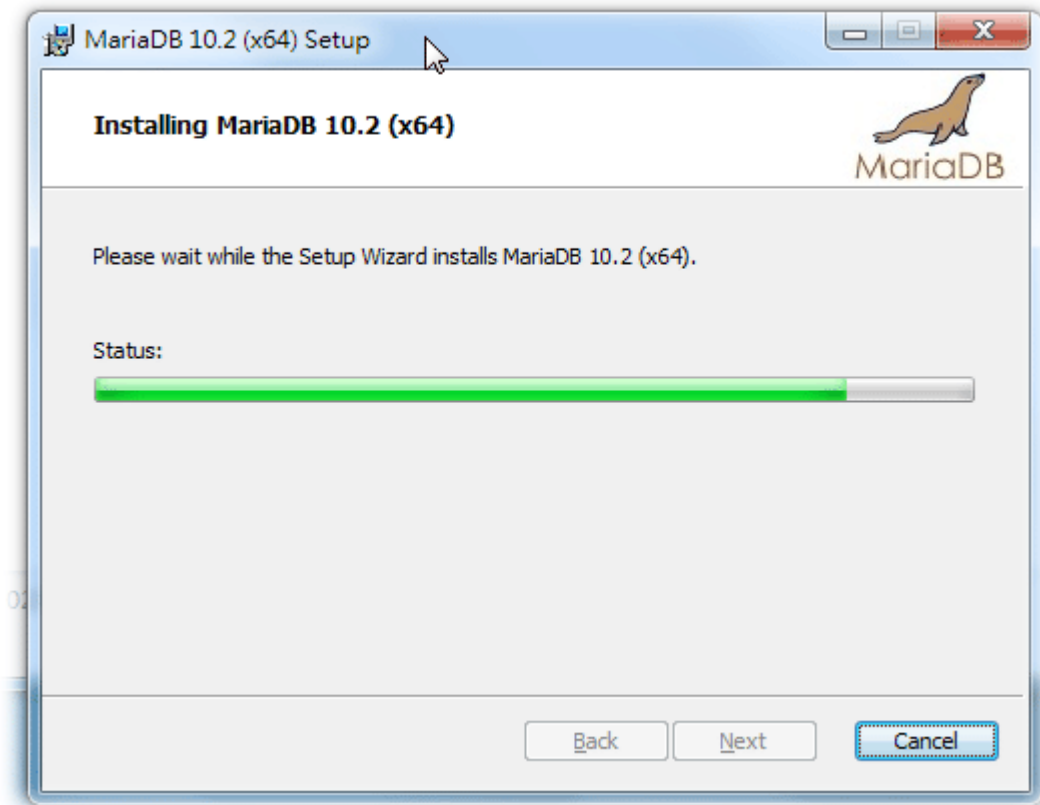
7. On this dialog box, click **Next**.



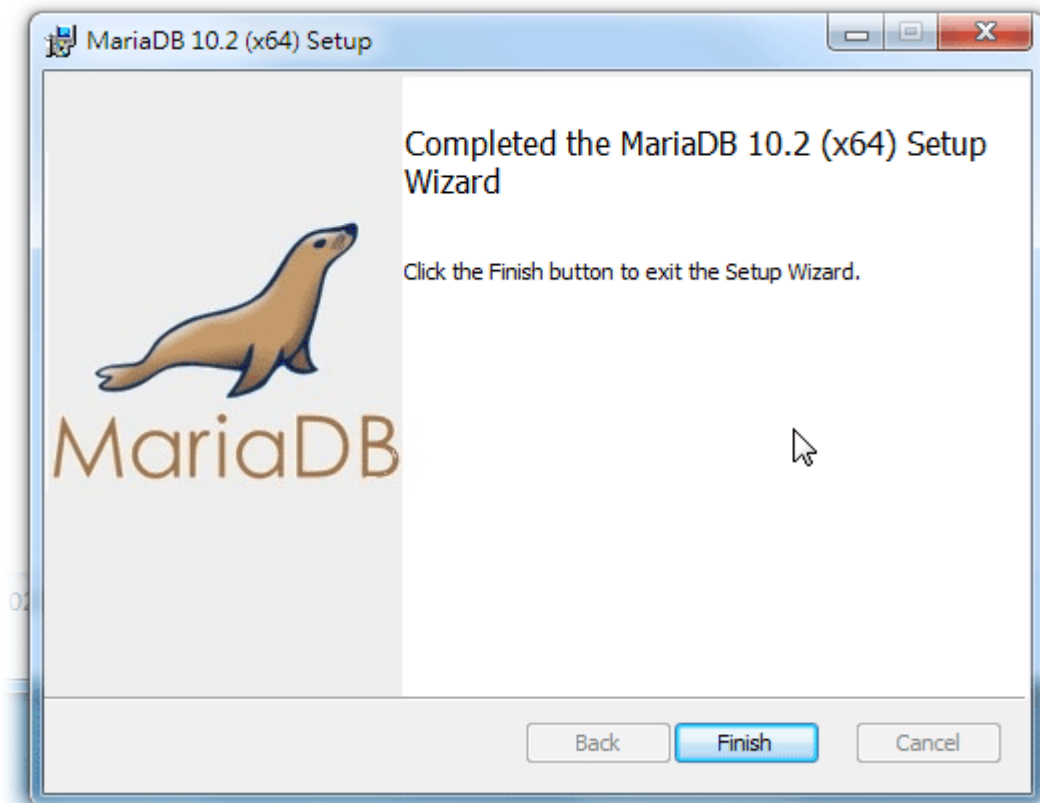
8. On this dialog box, click **Install**.



9. The installation program starts to install required files for MariaDB to your computer. Wait for several seconds.



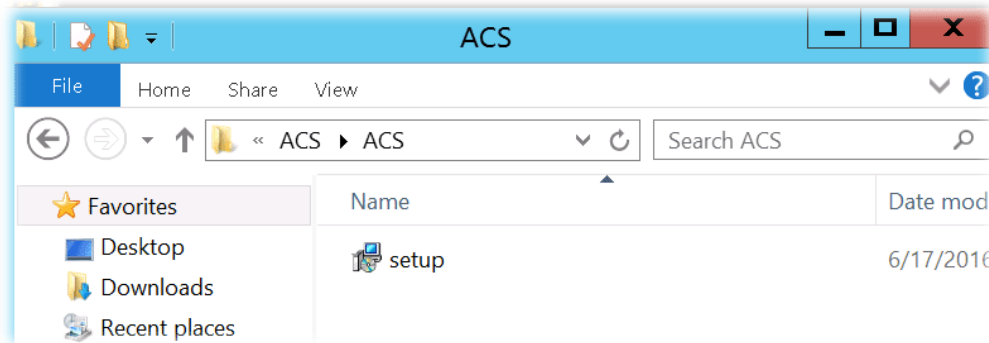
10. After finishing the configuration, please click **Finish** to exit the wizard.



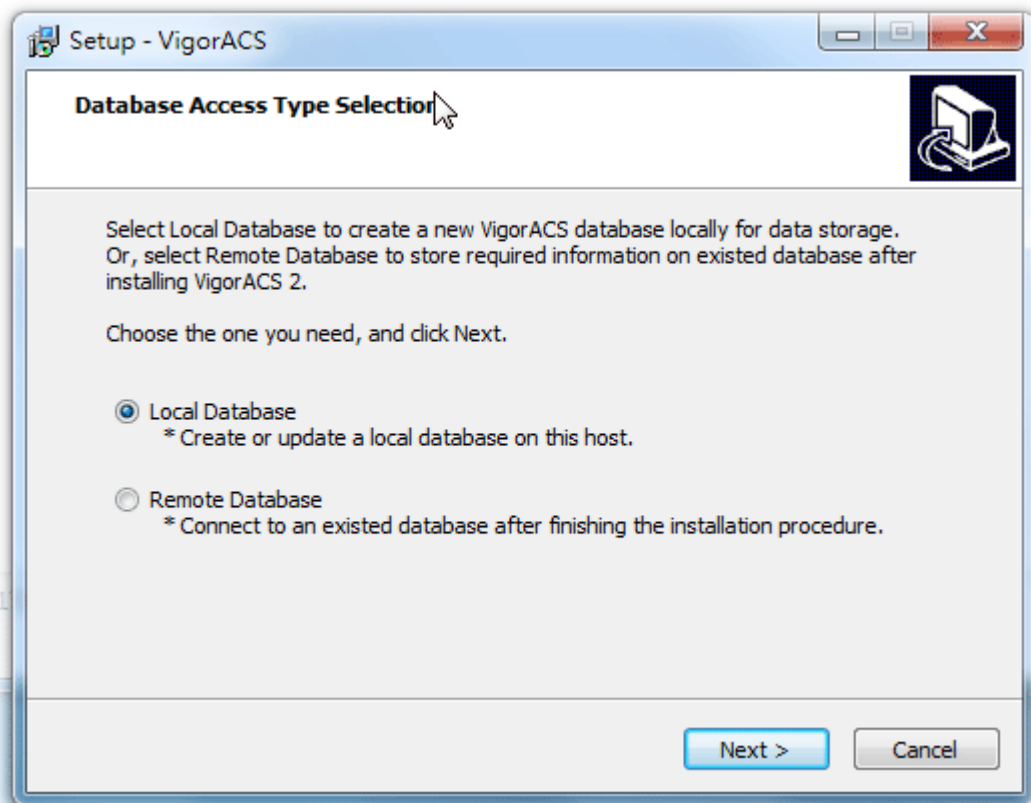
1.3 Installation for VigorACS 2

It is time to install VigorACS main program. Follow the steps below.

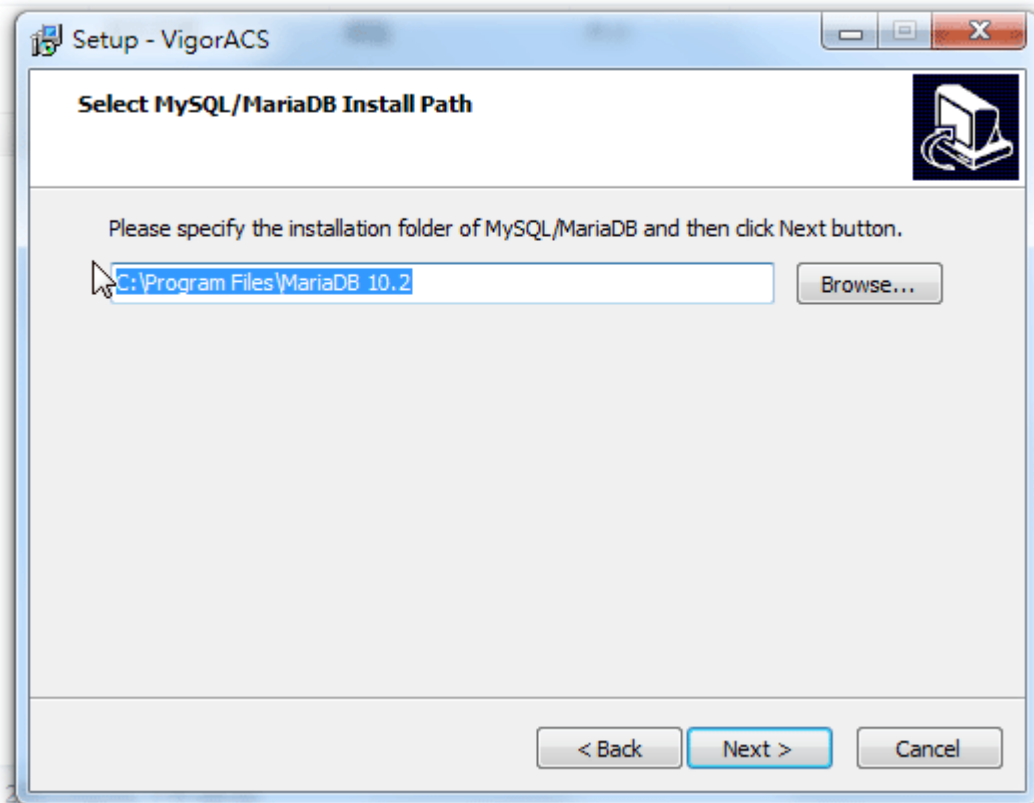
1. Click **Setup** to run VigorACS 2 setup wizard.



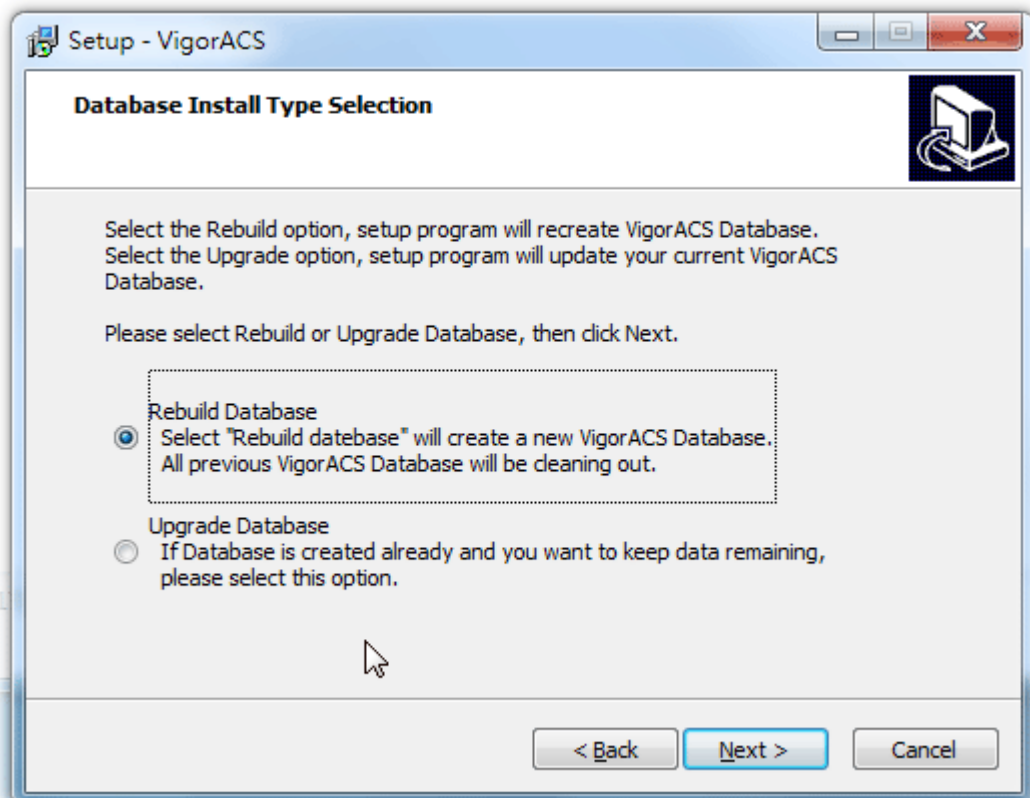
2. When the following dialog appears, choose **Local Database / Remote Database** and click **Next**.



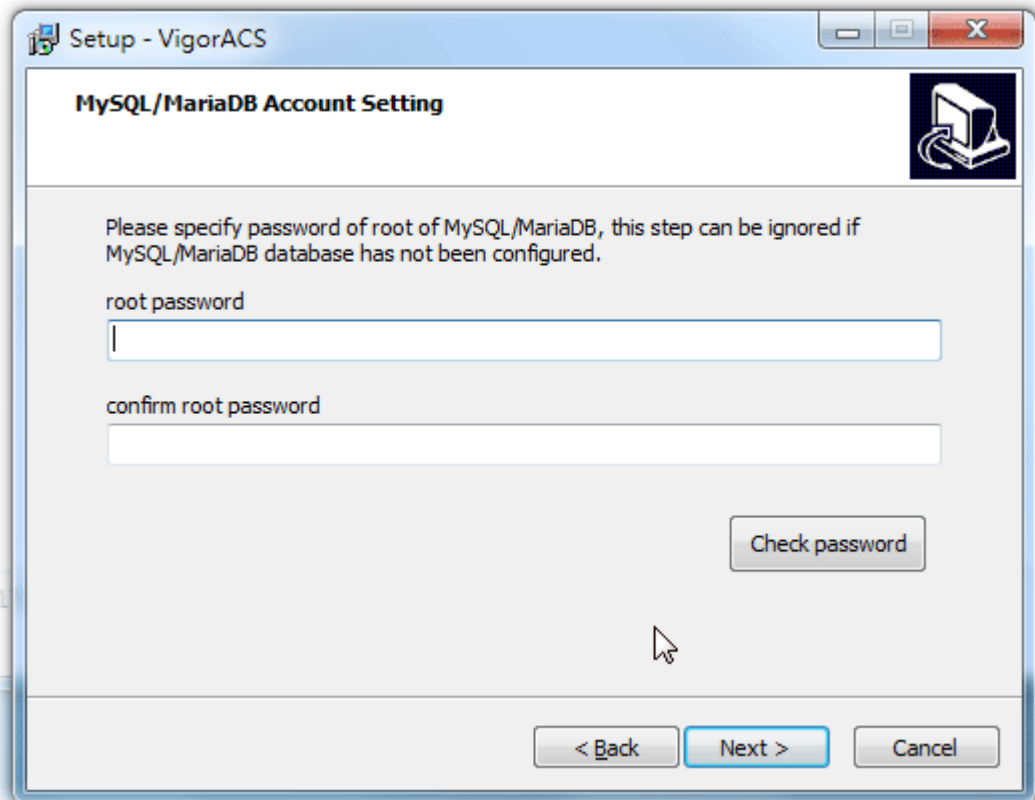
3. Select the directory that MariaDB being installed (done in 1.2) and click Next



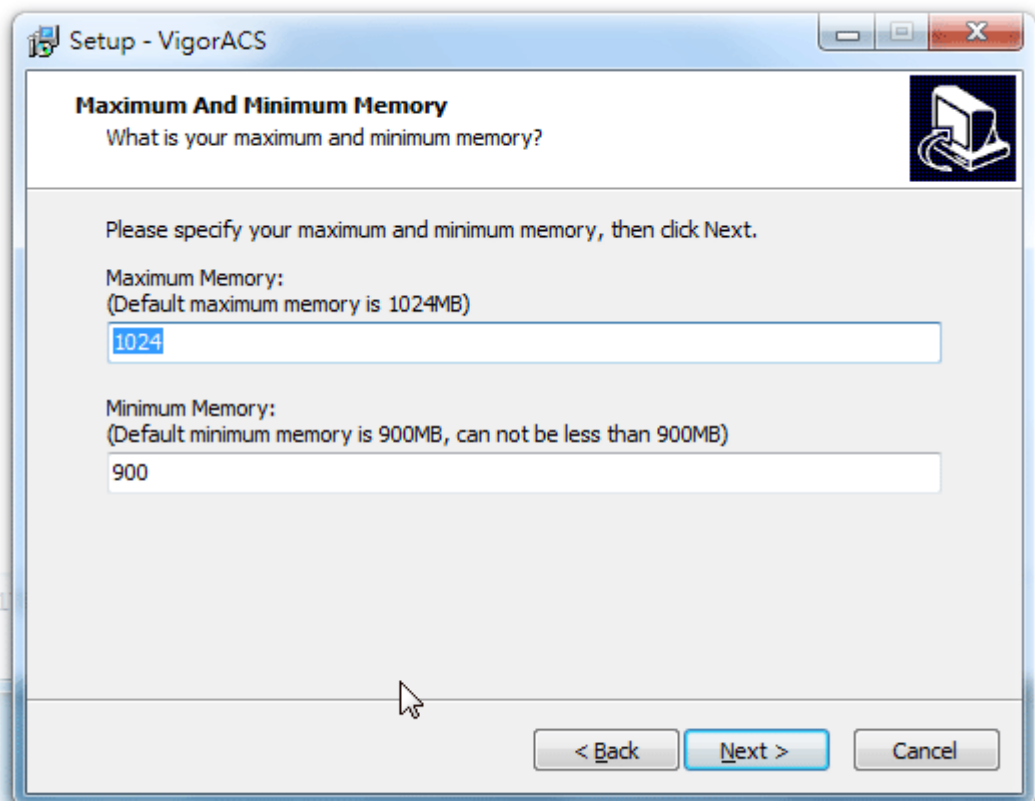
4. In this dialog box, choose **Rebuild Database** (for rebuilding the VigorACS database) or **Upgrade Database** (for upgrading the database). For the first time using, please choose **Rebuild Database**. Then click **Next**.



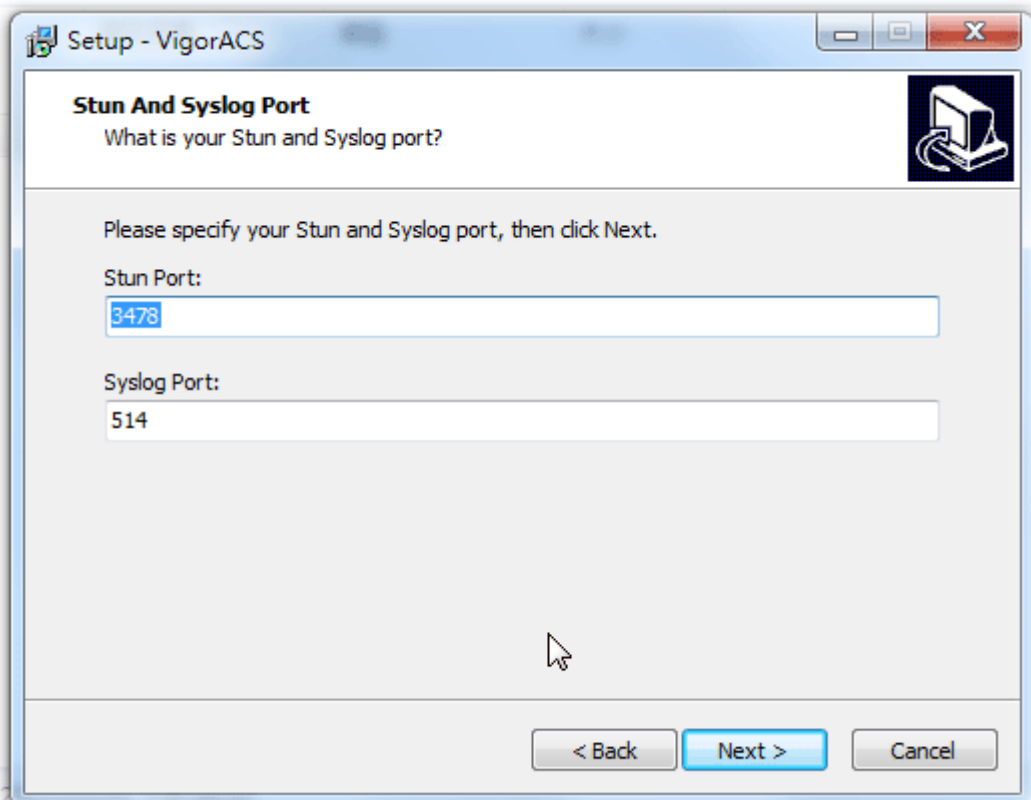
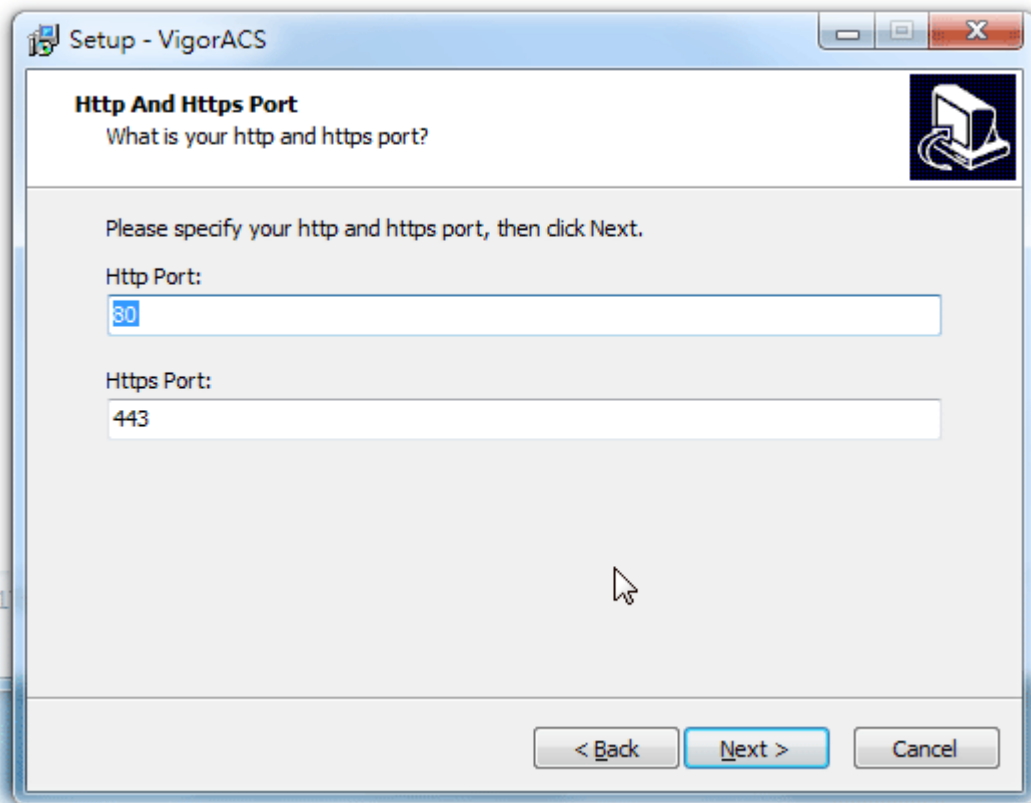
5. Click **Next**. If you have configured MySQL/MariaDB previously and specified password for it, you have to type the password in this page and then click **Next**.



6. Set the maximum memory and minimum memory. Click **Next**.



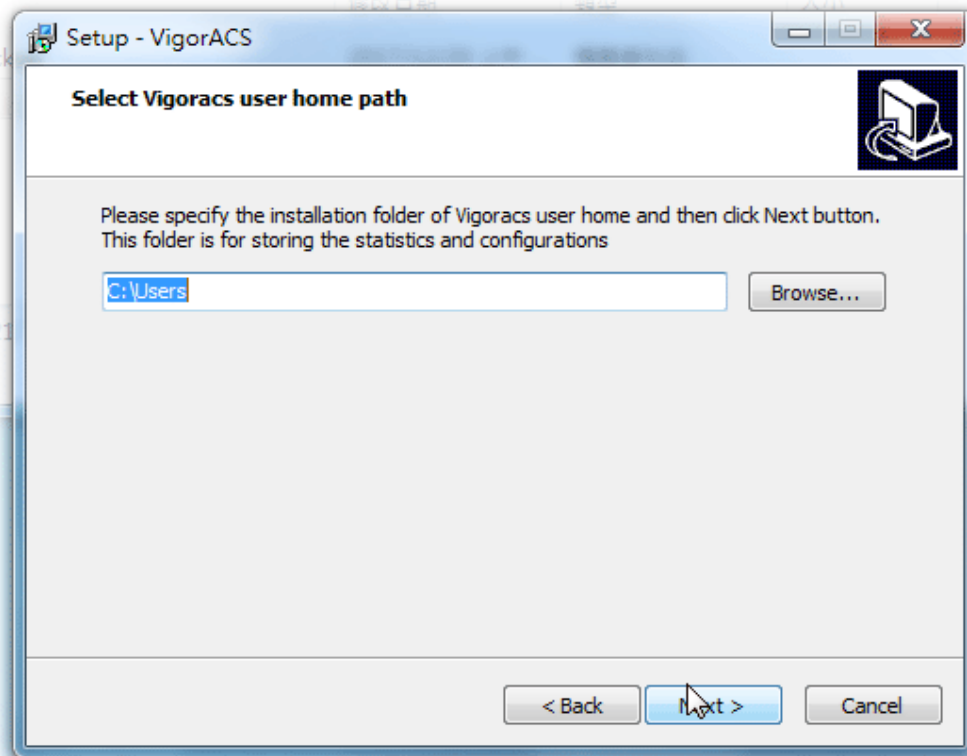
7. Setup ACS HTTP and HTTPS port, we'll suggest using others port instead of default 80 and 443 port to prevent conflict.



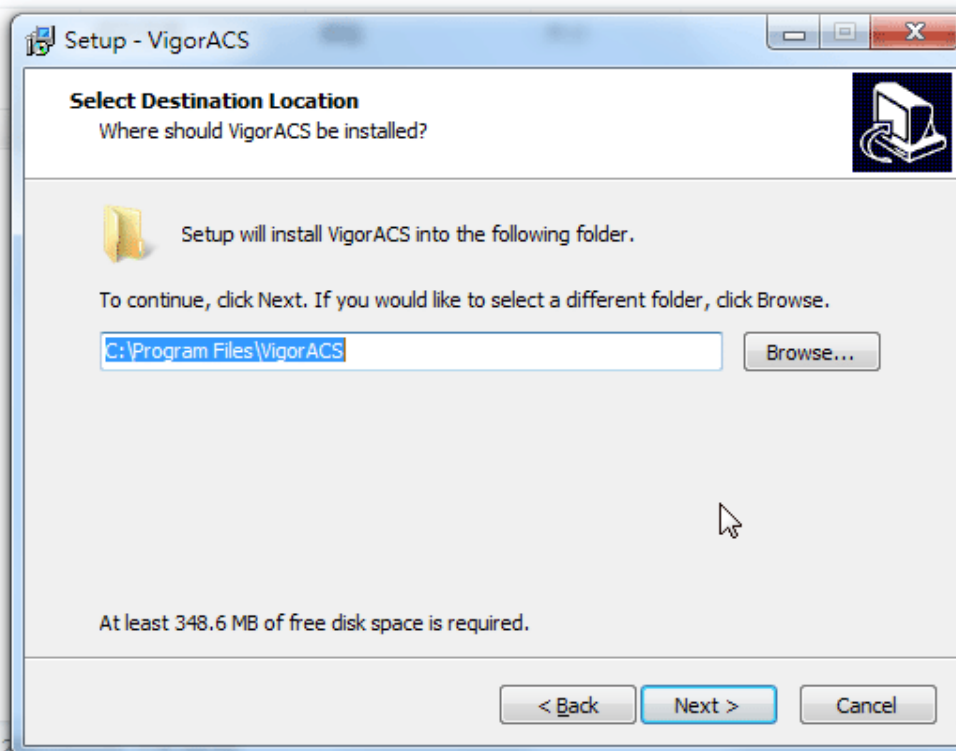
Info

The port number defined here will be used for opening VigorACS later.

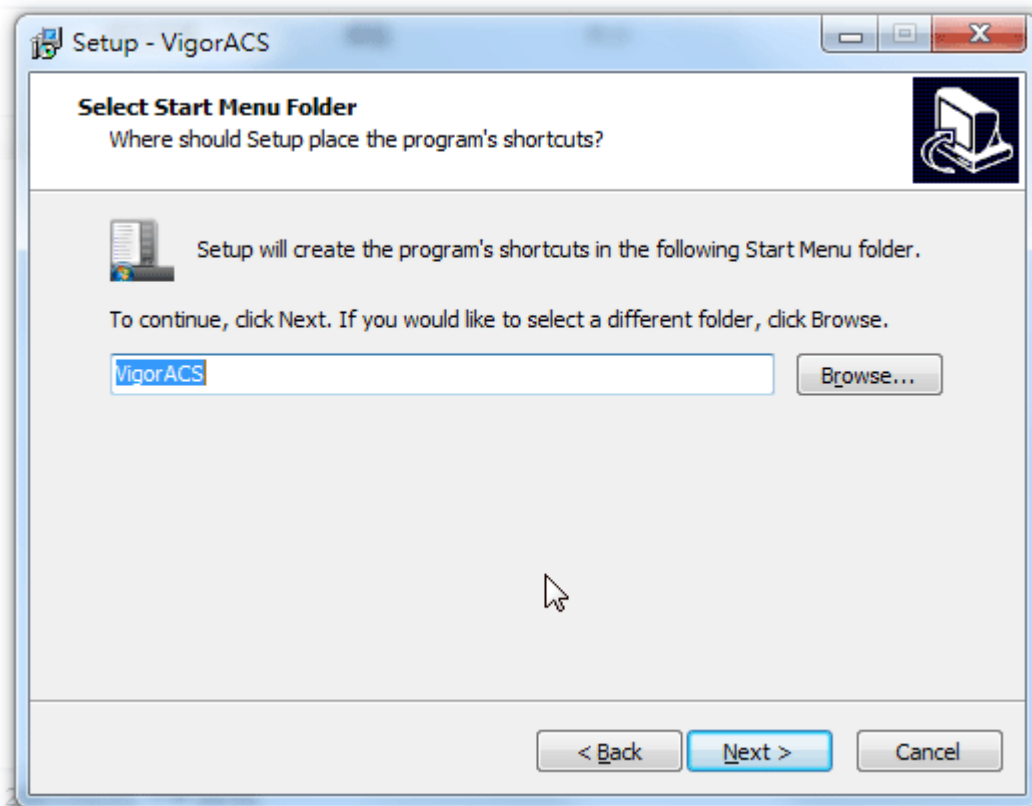
- Determine the home path and click **Next**. The default directory used by this program is *C:\Users*. You can modify it if you want and please make sure the length of directory is not over 100 characters, otherwise you might encounter problem of VigorACS in installation.



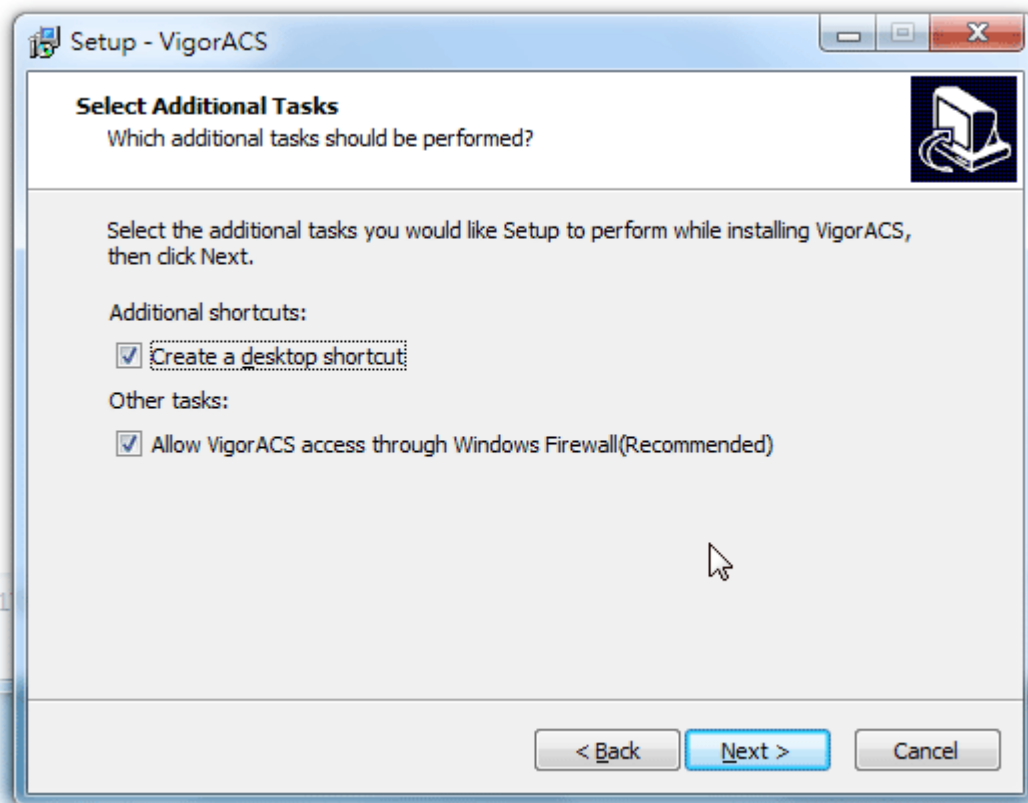
- Determine the destination folder and click **Next**. The default directory used by this program is *C:\Program Files\VigorACS*. You can modify it if you want and please make sure the length of directory is not over 100 characters, otherwise you might encounter problem of VigorACS in installation.



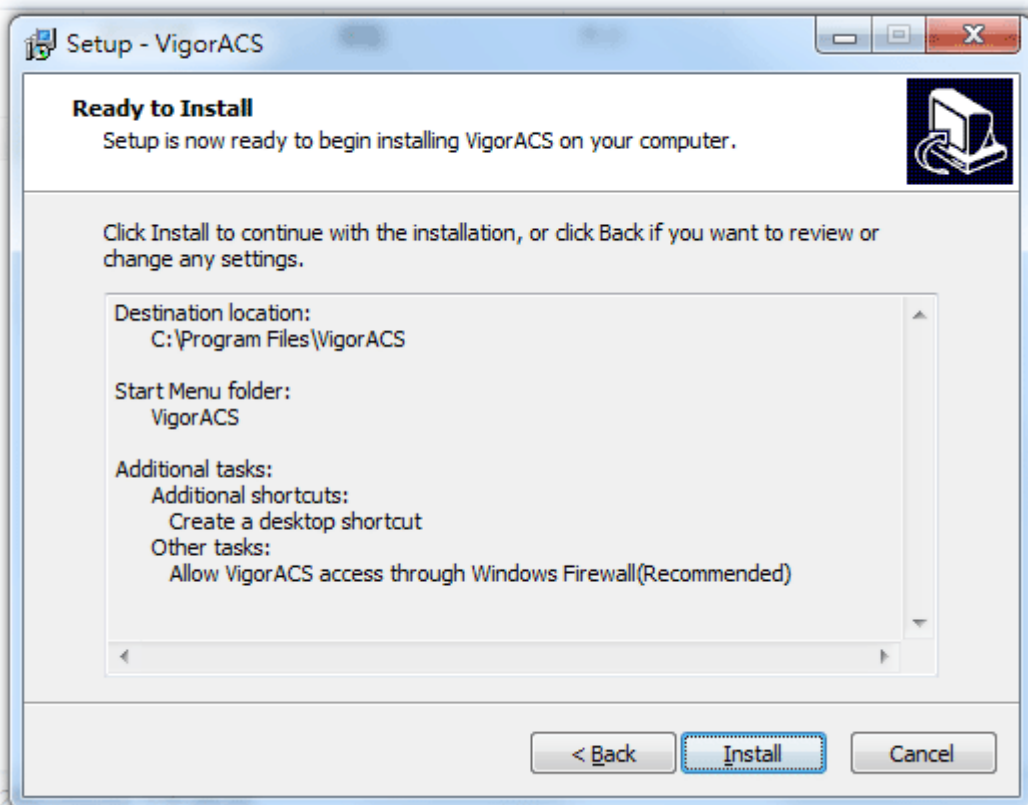
- Determine the start menu folder and click **Next**. The default directory used by this program is *VigorACS*. You can modify it if you want and please make sure the length of directory is not over 100 characters, otherwise you might encounter problem of VigorACS in installation.



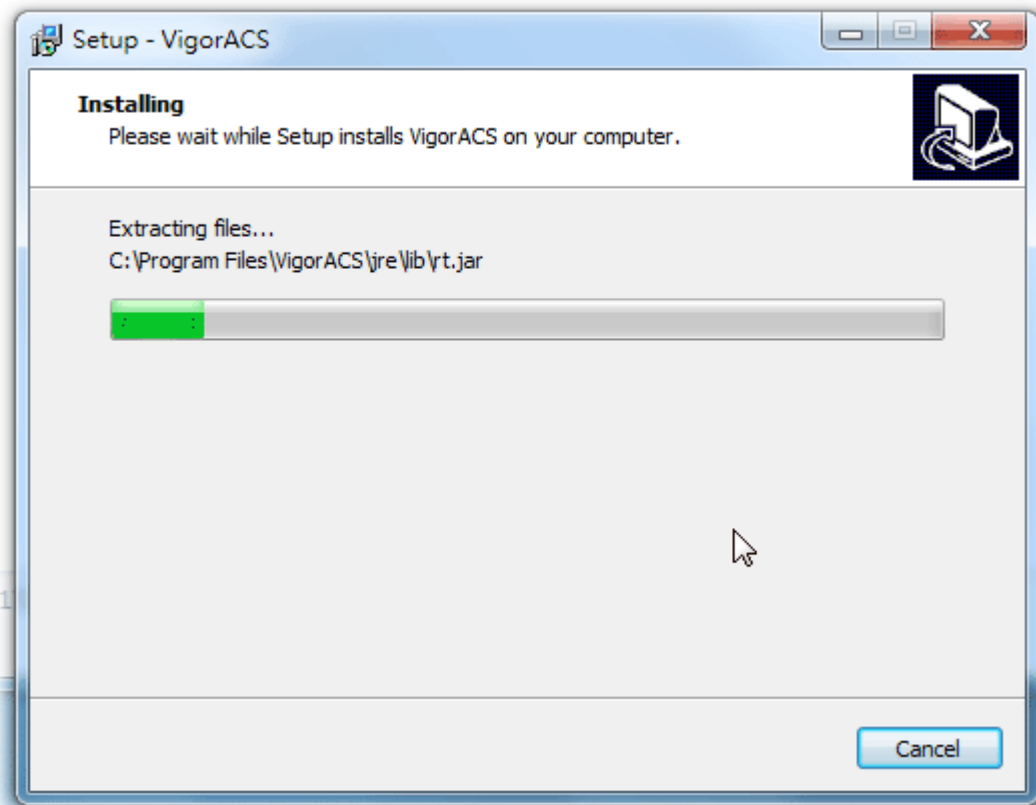
11. In this dialog, check the box of "Create a desktop shortcut" for your necessity. Click Next.



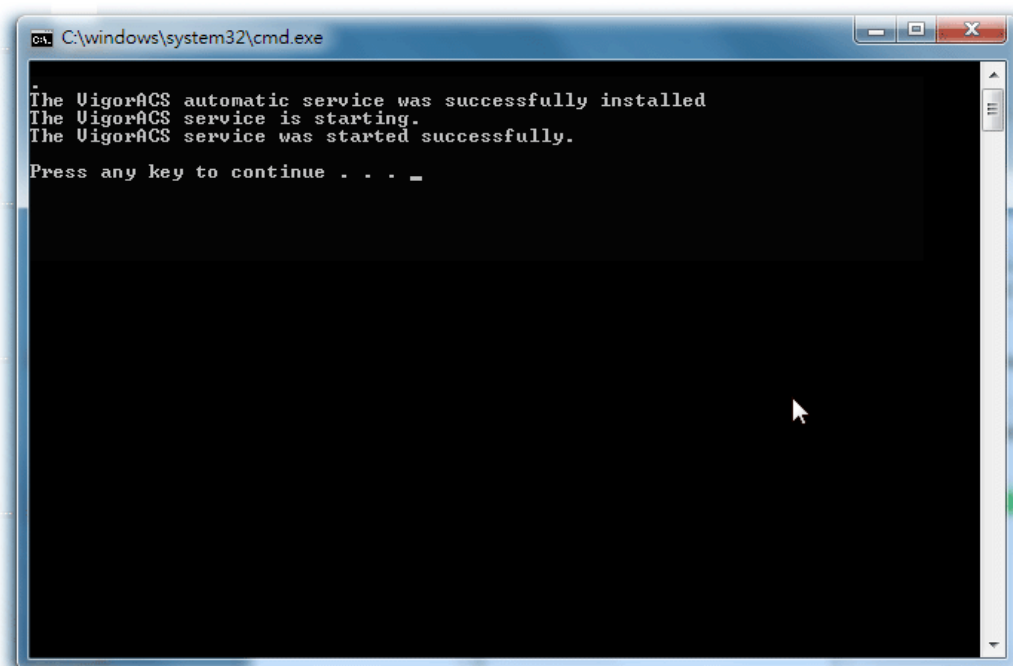
12. Now, the program is ready to install necessary features and files to your computer. Please click Install to start.



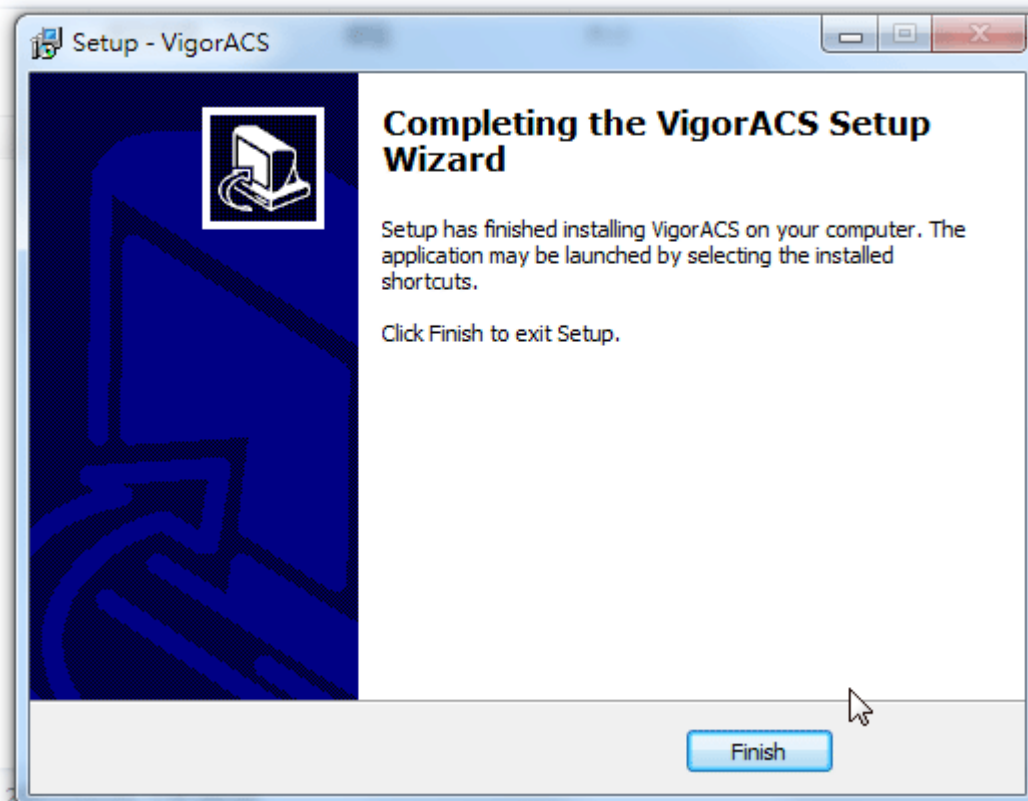
13. Please wait for a while to complete the installation.



14. While installing, the following screen will appear to show that MariaDB has been activated. Please wait for next dialog appearing.



15. Now the program has completed the installation of VigorACS 2. Click **Finish** to exit it.



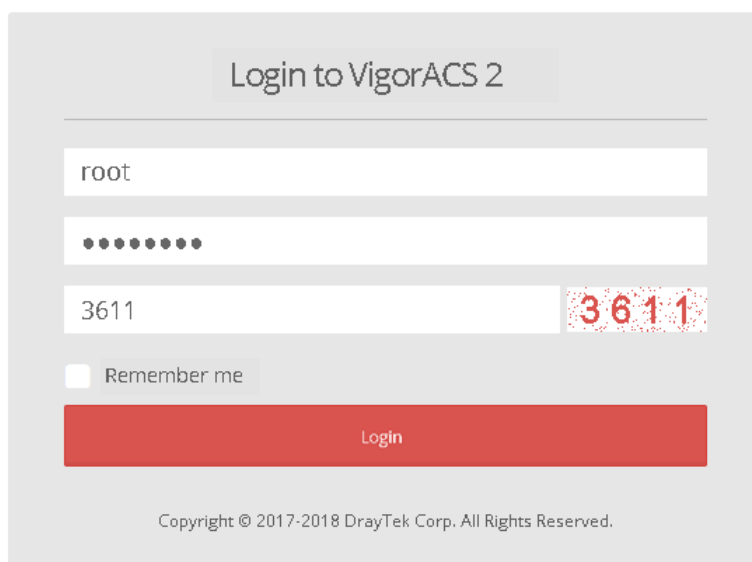
1.4 StartMySQL/MariaDB Database

After installing VigorACS, install program will register MySQL/MariaDB to Windows Service. MySQL /MariaDB will startup automatically after installing VigorACS or rebooting system.

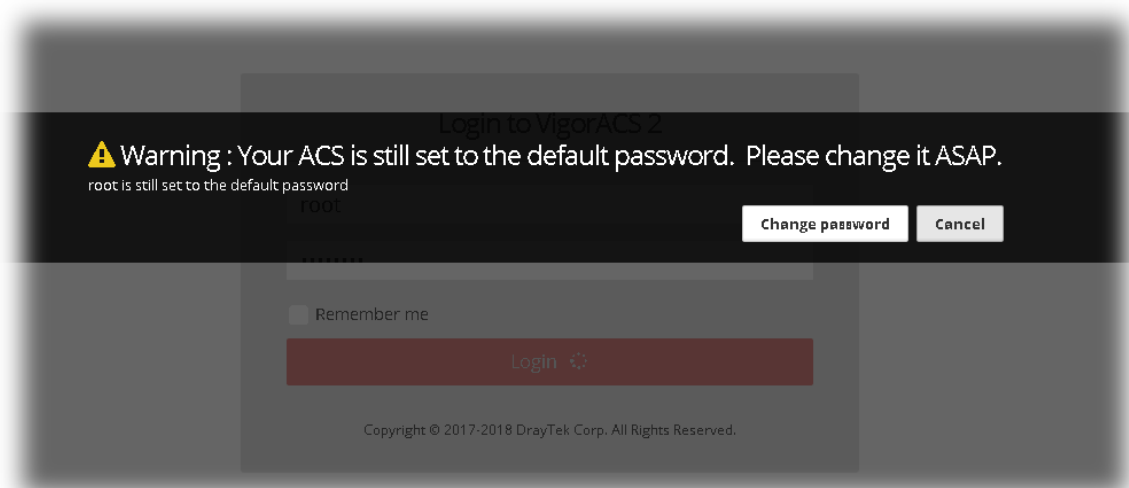
Normally, you don't need to worry about this step on Windows. But if you find any problems on VigorACS, you should check mysql/mariadb first. Please go to Windows Service check the MySQL/MariaDB Service starts or not.

1.5 Start VigorACS

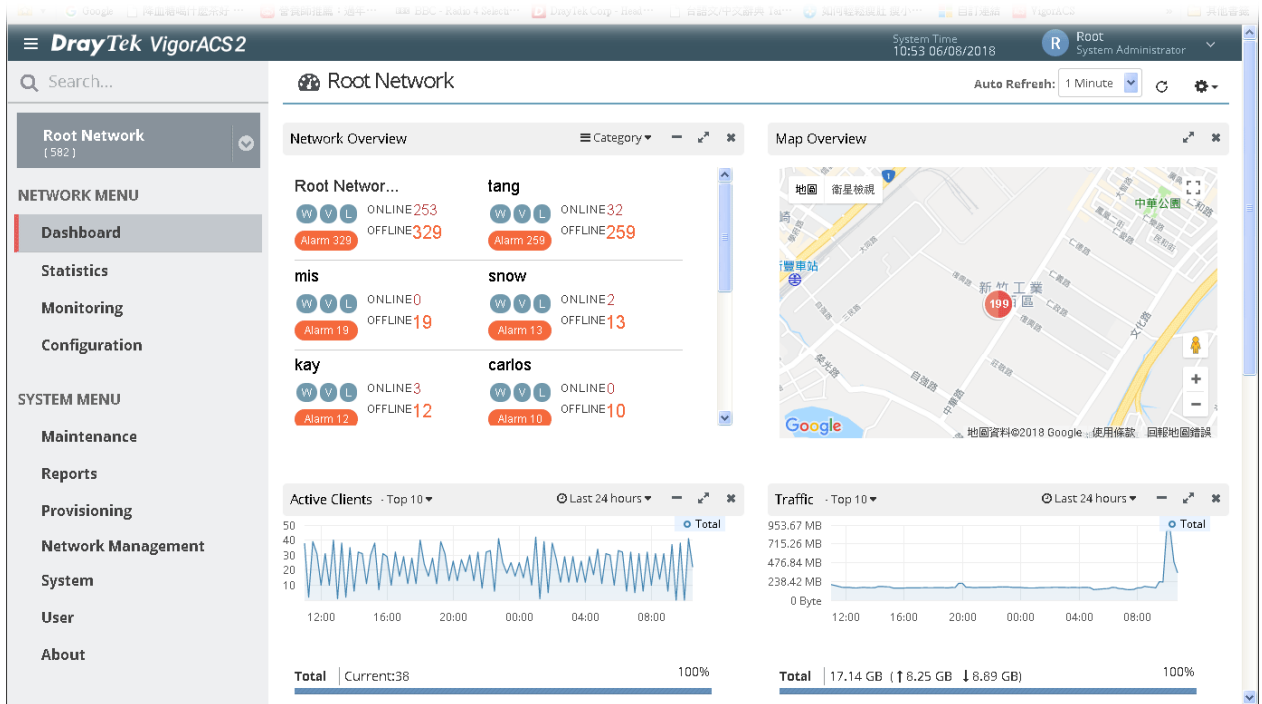
1. Login VigorACS. Use a web browser and type "*localhost:portnumber*". Note that the port number must be the one defined for HTTP and HTTPS port while installing VigorACS. For example, if HTTPS is defined as 8011, then the URL will be "*localhost:8011*".
2. The login page of VigorACS will be shown as the following. Please type "**root**" as user name and "**admin123**" as password and type the authentication code. Then click **Login**.



3. For the first time to access into the web user interface, a warning message appears first. Please click the **Change password** button to change the default password for network security. If not, click **Cancel** to access into the web user interface of VigorACS and change the password later.



4. After clicking Login, main screen of VigorACS 2 will be shown as below.



2. Platform for Linux

To start up the VigorACS under Linux, please execute "/usr/local/vigoracs/VigorACS/bin/vigoracs.sh" instruction. A list of menu items will be shown as follows.

1. Start mysql/mariadb
2. Shutdown mysql/mariadb
3. Start VigorACS
4. Shutdown VigorACS
5. Edit bind IP of VigorACS Server (please key in IP or server name)
6. Set the Max. and Min. memory value of running java (it will be valid after restarting VigorACS)
7. View the Max. and Min. memory value of running java
8. exit

2.1 Installation for MariaDB, Java and VigorACS

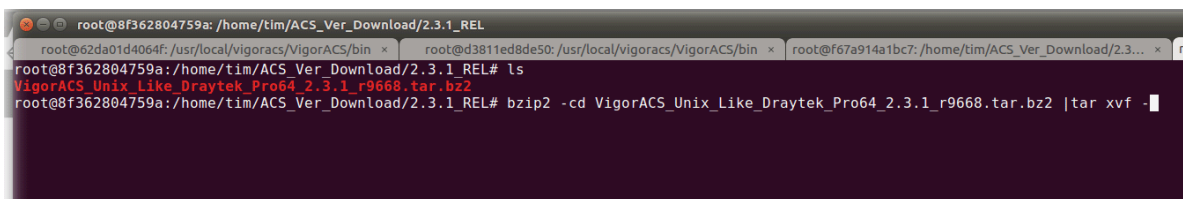
Follow the steps listed below to install VigorACS under Linux:

1. Login Linux with root or the root privilege.
2. Download the ACS installation tar.bz2 package and extract it via below command:

```
#bzip2 -cd VigorACS_Unix_Like_XXXXXX_XXXXXX.tar.bz2 | tar xvf -  
or  
#tar -jxv -f VigorACS_Unix_Like_XXXXXX_XXXXXX.tar.bz2
```

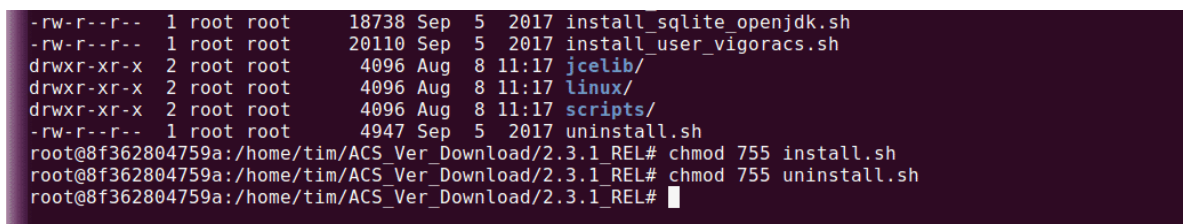
3. Decompress the setup packages

```
bzip2 -cd VigorACS_Unix_Like_XXXXXX_XXXXXX.tar.bz2 | tar xvf -
```



4. Change the permissions mode of install.sh and uninstall.sh.

```
chmod 755 install.sh  
chmod 755 uninstall.sh
```



5. Execute `./install.sh` installation file.

```
-rw-r--r-- 1 root root 4947 Sep 5 2017 uninstall.sh
root@8f362804759a:/home/tim/ACS_Ver_Download/2.3.1_REL# chmod 755 install.sh
root@8f362804759a:/home/tim/ACS_Ver_Download/2.3.1_REL# chmod 755 uninstall.sh
root@8f362804759a:/home/tim/ACS_Ver_Download/2.3.1_REL# ./install.sh
ping IPv4 address success

entering /home/tim/ACS_Ver_Download/2.3.1_REL/linux.....
```

Please make sure you have `/usr/bin/sh` first. If you don't have `/usr/bin/sh`, please enter the command:

```
#ln -s /bin/sh /usr/bin/sh
```

6. The system will ask to create `vigoracs`, enter "y" to proceed.

```
-rw-r--r-- 1 root root 4947 Sep 5 2017 uninstall.sh
root@8f362804759a:/home/tim/ACS_Ver_Download/2.3.1_REL# chmod 755 install.sh
root@8f362804759a:/home/tim/ACS_Ver_Download/2.3.1_REL# chmod 755 uninstall.sh
root@8f362804759a:/home/tim/ACS_Ver_Download/2.3.1_REL# ./install.sh
ping IPv4 address success

entering /home/tim/ACS_Ver_Download/2.3.1_REL/linux.....

Please create /usr/local/vigoracs
Create it now? (y/n)
y
```

7. Next, the system will ask you to install `xfonts-base` and `fontconfig`, just enter "y" to proceed.

```
root@8f362804759a:/home/tim/ACS_Ver_Download/2.3.1_REL# ./install.sh
ping IPv4 address success

entering /home/tim/ACS_Ver_Download/2.3.1_REL/linux.....

Please create /usr/local/vigoracs
Create it now? (y/n)
y

We'll install the following packages for showing captcha (For some Linux version e.g. Ubuntu, Debian):
- xfonts-base
- fontconfig
Install now(y/n)?
█
```

8. Next, please select the item number which you want to execute. Note that VigorACS supports Linux OS. The program will detect the system you have in your computer.

```
Setting up xfonts-utils (1:1.7.7-3ubuntu0.10.04.2) ...
Setting up xfonts-base (1:1.0.4+nmu1) ...
Processing triggers for libc-bin (2.23-0ubuntu9) ...
Processing triggers for systemd (229-4ubuntu19) ...

You must restart this ACS Server manually to finish the installation process

Notice:
* Installation ACS Server requires root privileges.
* After installing the ACS server, need to configure the Firewall to Allow HTTP and HTTPS port

[1] Install mysql/mariadb
[2] Change root password and security configuration of mysql/mariadb ( Default root password is blank )
[3] Install or Upgrade java
[4] Install VigorACS ( It will build one mysql/mariadb database : tr069 )
[5] Upgrade VigorACS ( It will upgrade local tr069 database )

*****For Remote Database Only*****
[6] Redirect the database path of VigorACS to remote host ( It will not upgrade remote database )

[7] Exit
input select num :
```

- (1) Install `mysql/mariadb`
- (2) Change root password and security configuration of `mysql/mariadb`
- (3) Install or Upgrade `java`
- (4) Install `VigorACS`
- (5) Upgrade `VigorACS`

(6) Redirect the database path of VigorACS to remote host

(7) Exit

input select num :



Info

If your computer has installed MariaDB and java previously, ignore the installation of them. Otherwise, install all the required items (MariaDB, Java and VigorACS) for your system. Item number **5** is used to upgrade VigorACS, so it is not necessary for you to execute for the first time of installation.

9. Input 1 to install MariaDB first. Notice that it will setup blank as default password. You can change the password by using the following command.

```
#!/usr/local/mysql/bin/mysqladmin  
--defaults-file=/usr/local/mysql/my.cnf -u root password 'new  
password'
```



Info

The password configured by the command above will be effective only when there is no password set for database root before.

```
You must restart this ACS Server manually to finish the installation process  
Notice:  
* Installation ACS Server requires root privileges.  
* After installing the ACS server, need to configure the Firewall to Allow HTTP and HTTPS port  
[1] Install mysql/mariadb  
[2] Change root password and security configuration of mysql/mariadb ( Default root password is blank )  
[3] Install or Upgrade java  
[4] Install VigorACS ( It will build one mysql/mariadb database : tr069 )  
[5] Upgrade VigorACS ( It will upgrade local tr069 database )  
*****For Remote Database Only*****  
[6] Redirect the database path of VigorACS to remote host ( It will not upgrade remote database )  
[7] Exit  
input select num :  
1  
Do you want to install mariadb(mariadb-10.2.10) ... (y/n)?  
█
```

Follow the instructions on the screen to finish the MariaDB installation.

10. Later, input 2 to change root password and security configuration of mysql/mariadb.

```
The latest information about MariaDB is available at http://mariadb.org/.
You can find additional information about the MySQL part at:
http://dev.mysql.com
Consider joining MariaDB's strong and vibrant community:
https://mariadb.org/get-involved/

Starting VigorACS MYSQL: [OK]

Notice:
  * Installation ACS Server requires root privileges.
  * After installing the ACS server, need to configure the Firewall to Allow HTTP and HTTPS port

[1] Install mysql/mariadb
[2] Change root password and security configuration of mysql/mariadb ( Default root password is blank )
[3] Install or Upgrade java
[4] Install VigorACS ( It will build one mysql/mariadb database : tr069 )
[5] Upgrade VigorACS ( It will upgrade local tr069 database )

*****For Remote Database Only*****
[6] Redirect the database path of VigorACS to remote host ( It will not upgrade remote database )

[7] Exit
input select num :
2

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB
SERVERS IN PRODUCTION USE! PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the current
password for the root user. If you've just installed MariaDB, and
you haven't set the root password yet, the password will be blank,
so you should just press enter here.

Enter current password for root (enter for none): █
```



Info

The password set in this step is used for VigorACS 2 to login database.

11. Input 3 to install Java.

```
You can test the MariaDB daemon with mysql-test-run.pl
cd './mysql-test' ; perl mysql-test-run.pl

Please report any problems at http://mariadb.org/jira

The latest information about MariaDB is available at http://mariadb.org/.
You can find additional information about the MySQL part at:
http://dev.mysql.com
Consider joining MariaDB's strong and vibrant community:
https://mariadb.org/get-involved/

Starting VigorACS MYSQL: [OK]

Notice:
  * Installation ACS Server requires root privileges.
  * After installing the ACS server, need to configure the Firewall to Allow HTTP and HTTPS port

[1] Install mysql/mariadb
[2] Change root password and security configuration of mysql/mariadb ( Default root password is blank )
[3] Install or Upgrade java
[4] Install VigorACS ( It will build one mysql/mariadb database : tr069 )
[5] Upgrade VigorACS ( It will upgrade local tr069 database )

*****For Remote Database Only*****
[6] Redirect the database path of VigorACS to remote host ( It will not upgrade remote database )

[7] Exit
input select num :
3

Do you want to install jdk(openjdk-1.8.0.151) ... (y/n)?
█
```

Follow the instructions on the screen to finish the Java installation.

12. Input 4 to install VigorACS. It is suggested to use ACS customized MariaDB database. When asked to enter MariaDB password, press "Enter" if you haven't changed the password via the command. Then, confirm that TR-069 database has been installed successfully.

```

openjdk-1.8.0.151-linux-x64/lib/jconsole.jar
openjdk-1.8.0.151-linux-x64/lib/jexec
openjdk-1.8.0.151-linux-x64/lib/orb.idl
openjdk-1.8.0.151-linux-x64/lib/sa-jdi.jar
openjdk-1.8.0.151-linux-x64/lib/tools.jar
openjdk-1.8.0.151-linux-x64/src.zip
openjdk-1.8.0.151-linux-x64/tapset/
openjdk-1.8.0.151-linux-x64/tapset/hotspot-1.8.0.151-1.b12.el6_9.x86_64.stp
openjdk-1.8.0.151-linux-x64/tapset/hotspot_gc-1.8.0.151-1.b12.el6_9.x86_64.stp
openjdk-1.8.0.151-linux-x64/tapset/hotspot_jni-1.8.0.151-1.b12.el6_9.x86_64.stp
openjdk-1.8.0.151-linux-x64/tapset/jstack-1.8.0.151-1.b12.el6_9.x86_64.stp

ln -s /usr/local/openjdk-1.8.0.151-linux-x64/ /usr/javase

Notice:
* Installation ACS Server requires root privileges.
* After installing the ACS server, need to configure the Firewall to Allow HTTP and HTTPS port

[1] Install mysql/mariadb
[2] Change root password and security configuration of mysql/mariadb ( Default root password is blank )
[3] Install or Upgrade java
[4] Install VigorACS ( It will build one mysql/mariadb database : tr069 )
[5] Upgrade VigorACS ( It will upgrade local tr069 database )

*****For Remote Database Only*****
[6] Redirect the database path of VigorACS to remote host ( It will not upgrade remote database )

[7] Exit
input select num :
4
[Install VigorACS]

[Warning] It will clear the existing ACS database and create a new one.Do you want to continue? (y/n)

```

Wait and follow the instructions on the screen to finish the installation.

```

Notice:
* Installation ACS Server requires root privileges.
* After installing the ACS server, need to configure the Firewall to Allow HTTP and HTTPS port

[1] Install mysql/mariadb
[2] Change root password and security configuration of mysql/mariadb ( Default root password is blank )
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[4] Install VigorACS ( It will build one mysql/mariadb database : tr069 )
[5] Upgrade VigorACS ( It will upgrade local tr069 database )

*****For Remote Database Only*****
[6] Redirect the database path of VigorACS to remote host ( It will not upgrade remote database )

[7] Exit
input select num :
4
[Install VigorACS]

[Warning] It will clear the existing ACS database and create a new one.Do you want to continue? (y/n)
y
Do you want to use remote/local database? (1: Local side database, 2: Remote side database, Enter for Local side database)
1
Which Mysql do you want to use ? (1: ACS , 2: OS default, Enter for ACS mysql)
1
MySQL is running!!
Please keyin password of root of MySQL/MariaDB.

```

```

MySQL is running!!
Please keyin password of root of MySQL/MariaDB.

Do you want to test password now?(y/n)
y

Access Database Success
Start to install VigorACS....

```

```

inflating: VigorACS/version/vigoracs.6_2.3.0
inflating: VigorACS/version/vigorapm.db
inflating: VigorACS/version/vigorapm.sql.1
inflating: VigorACS/version/vigorapm.sql.2
inflating: VigorACS/version/vigorapm.sql.all
After installing VigorACS , tr069 will be created automatically.
Start to create tr069 database ....
Drop and Create tr069 database NOW !!
Create tr069 database successfully....
Create tr069 database table....

```

13. Now, input 6 to redirect the database path of VigorACS to remote host. For remote database, please execute such step on remote host.

```
Start to create tr069 database ...
Drop and Create tr069 database NOW !!
Create tr069 database successfully...
Create tr069 database table...
Create tr069 table successfully...
VigorACS and tr069 install Successfully

Notice:
* Installation ACS Server requires root privileges.
* After installing the ACS server, need to configure the Firewall to Allow HTTP and HTTPS port

[1] Install mysql/mariadb
[2] Change root password and security configuration of mysql/mariadb ( Default root password is blank )
[3] Install or Upgrade java
[4] Install VigorACS ( It will build one mysql/mariadb database : tr069 )
[5] Upgrade VigorACS ( It will upgrade local tr069 database )

*****For Remote Database Only*****
[6] Redirect the database path of VigorACS to remote host ( It will not upgrade remote database )

[7] Exit
input select num :
6
Please keyin IP:Port of root of Remote MySQL/MariaDB.
Please keyin IP (default IP: 127.0.0.1) :
```

14. Input 7 to finish and exit the installation.



Info 1

Step 13 is required for establishing remote database only. You can ignore it while building local database.

Info 2

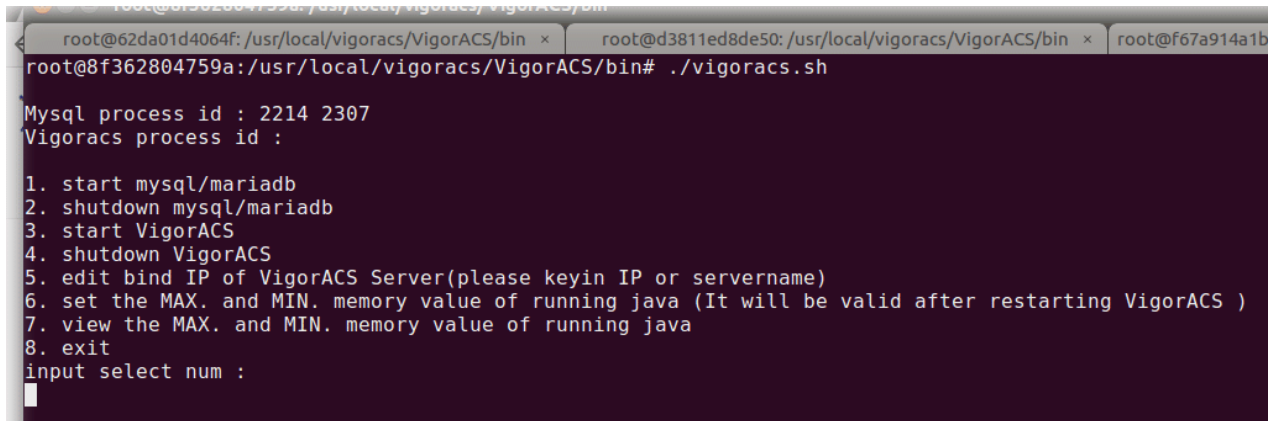
To prevent port conflicts, we'll suggest that using other ports for HTTP and HTTPS instead of default 80 and 443.

2.2 Start MySQL/MariaDB Database

After installing VigorACS, mysql/mariadb daemon has started. You can to see it using "`ps -ef|grep mysql`" instruction. Use the menu item 1 / 2 to start / shutdown mysql/mariadb.

2.3 Start VigorACS

After installing VigorACS, access "`/usr/local/vigoracs/VigorACS/bin`", execute "`./vigoracs.sh`".



```
root@62da01d4064f: /usr/local/vigoracs/VigorACS/bin x root@d3811ed8de50: /usr/local/vigoracs/VigorACS/bin x root@f67a914a1b
root@8f362804759a: /usr/local/vigoracs/VigorACS/bin# ./vigoracs.sh
Mysql process id : 2214 2307
Vigoracs process id :
1. start mysql/mariadb
2. shutdown mysql/mariadb
3. start VigorACS
4. shutdown VigorACS
5. edit bind IP of VigorACS Server(please keyin IP or servername)
6. set the MAX. and MIN. memory value of running java (It will be valid after restarting VigorACS )
7. view the MAX. and MIN. memory value of running java
8. exit
input select num :
█
```

Select item 3 to start VigorACS.



```
root@62da01d4064f: /usr/local/vigoracs/VigorACS/bin x root@d3811ed8de50: /usr/local/vigoracs/VigorACS/bin x root@f67a914a1b
root@8f362804759a: /usr/local/vigoracs/VigorACS/bin# ./vigoracs.sh
Mysql process id : 2214 2307
Vigoracs process id :
1. start mysql/mariadb
2. shutdown mysql/mariadb
3. start VigorACS
4. shutdown VigorACS
5. edit bind IP of VigorACS Server(please keyin IP or servername)
6. set the MAX. and MIN. memory value of running java (It will be valid after restarting VigorACS )
7. view the MAX. and MIN. memory value of running java
8. exit
input select num :
3█
```

If you ever reboot the machine after installing VigorACS, just select item 1 to start mysql/mariadb first. Then, select item 3 to start VigorACS.

2.4 Edit VigorACS IP

When starting the VigorACS at first time on Linux, startup program will ask you input Server IP or input Enter key by using the IP address of the host. Once you input the IP address, VigorACS will keep it on `startway.txt`. Next time, if you want to change it, you can select item 5 to edit `startway.txt` using `vi editor`.

3. Registering VigorACS 2

For the first time to activate VigorACS 2, the system will ask you to register VigorACS 2 onto DrayTek MyVigor server. Refer to the following sections to register VigorACS 2 on different platforms.



Info 1

While installing VigorACS, install program will register MySQL/MariaDB to Windows Service. MySQL/MariaDB will startup automatically after installing VigorACS or rebooting system. Normally, you don't need to worry about this step on Windows. But if you find any problems on VigorACS, you should check mysql/mariadb first. Please go to Windows Service check the MySQL/MariaDB Service starts or not.

Info 2

After installing VigorACS, the software will startup automatically. Normally, you don't need to worry about this step on Windows. But, if you find any problem on VigorACS, you could shut down VigorACS and start VigorACS again.

3.1 Registration for VigorACS via Windows Platform

Below shows the steps to register VigorACS 2:

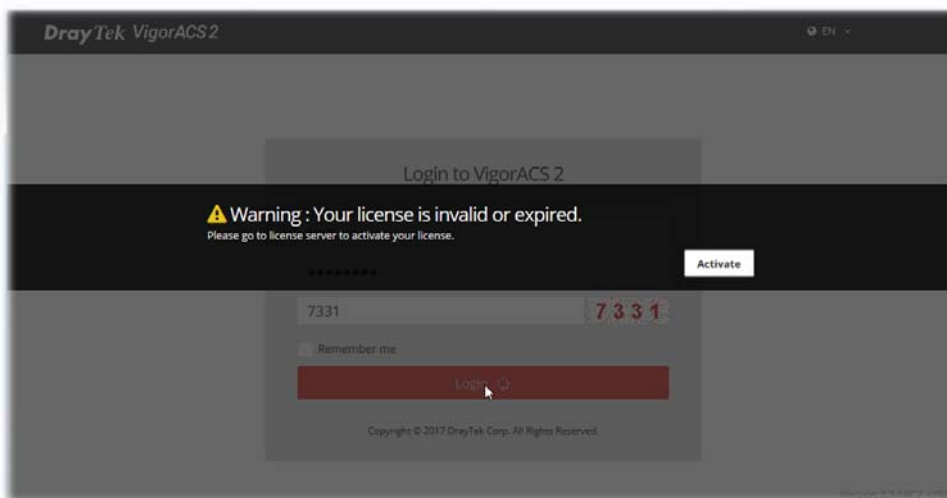
1. Login VigorACS. Use a web browser and type *localhost:portnumber*. Note that the port number must be the one defined for HTTP and HTTPS port while installing VigorACS. For example, if HTTPS is defined as 8011, then the URL will be *localhost:8011*.
2. The login page of VigorACS will be shown as the following. Please type *root* as user name and *admin123* as password and type the authentication code. Then click **Login**.



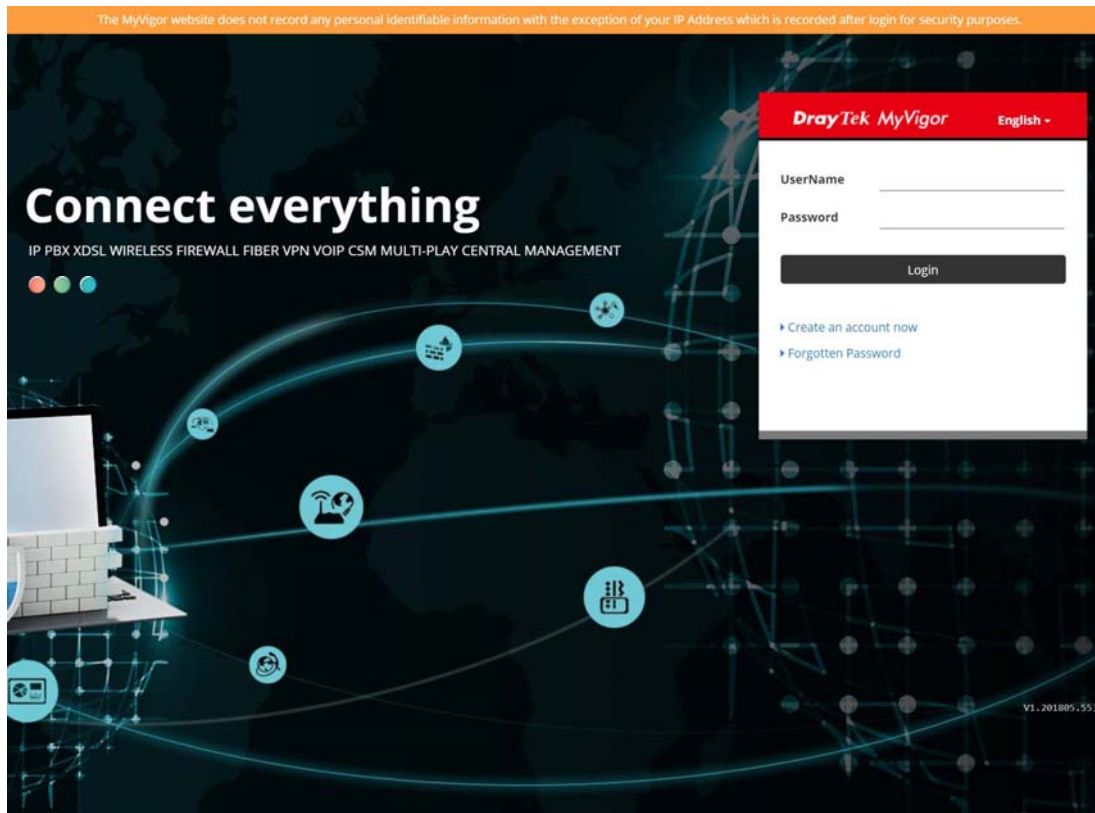
Info

“root” and *“admin123”* are default settings.

3. A License Error dialog appears as follows. Simply click **Active**.



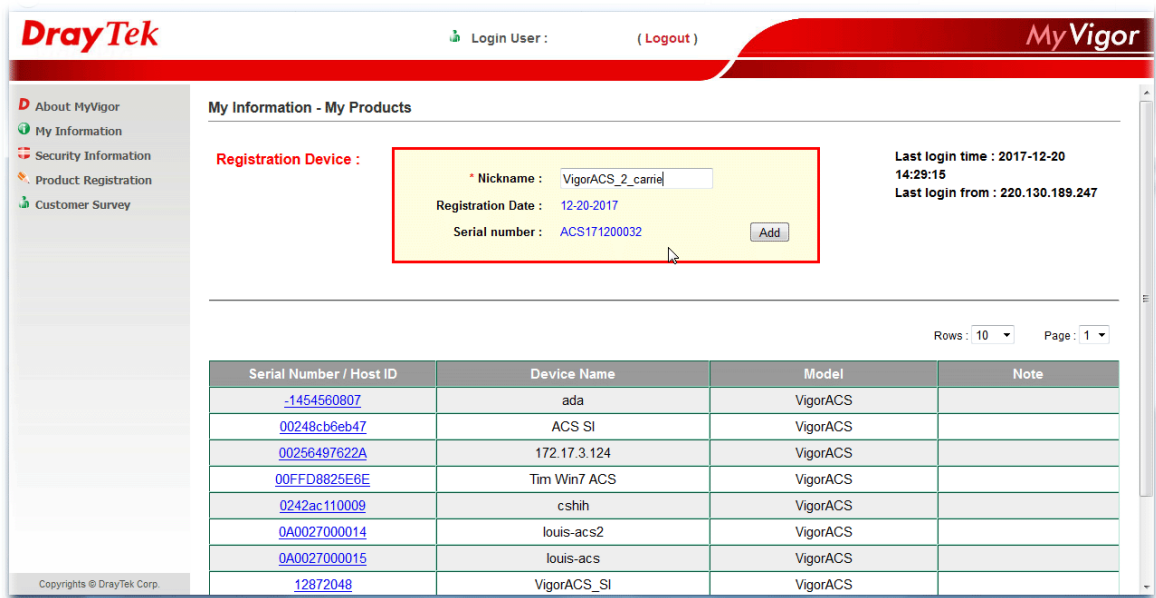
4. A login page for MyVigor web site will be popped up automatically. Type your account (user name) and password in this page. Then, click **Login**.



Info

If you do not have any account, simply click [Create an account now](#) to create a new one for using the service provided by MyVigor web site.

5. MyVigor will verify and authenticate if the user account you typed is allowed to access into the web site. If yes, the following screen will appear.



6. Type a nickname for VigorACS and click Add.



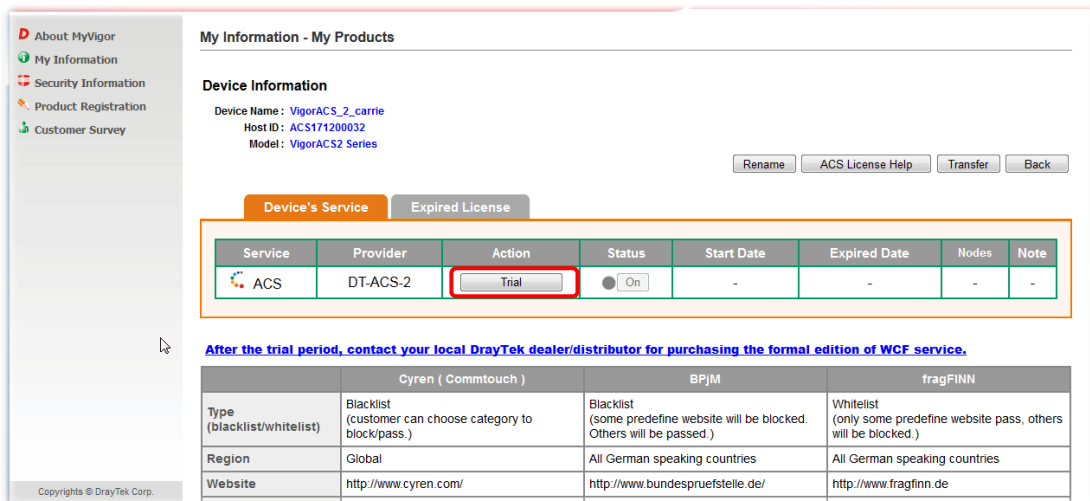
7. After clicking Add, you can see the following screen. Click OK.



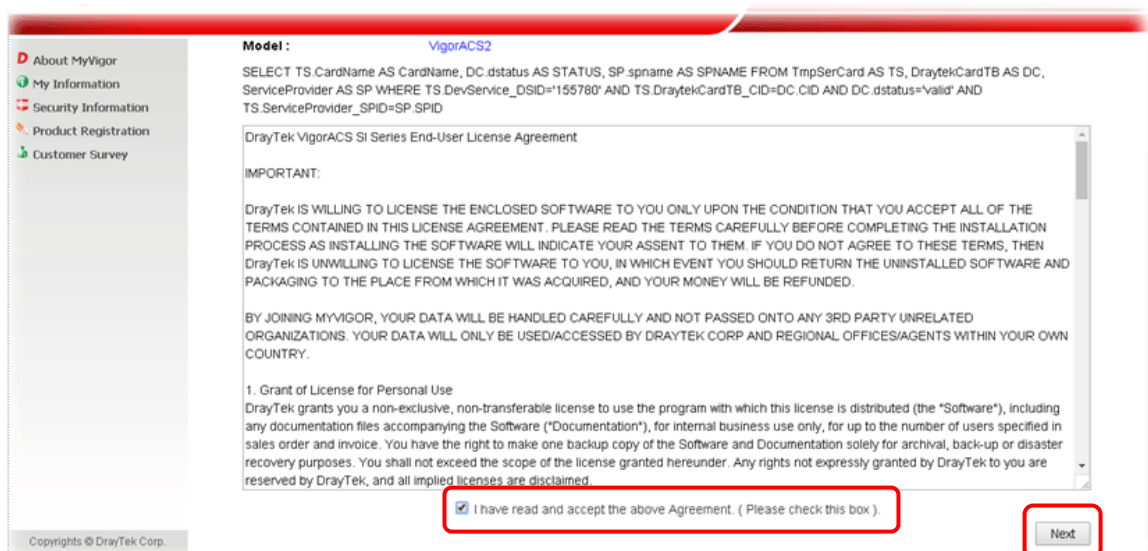
Your device has been successfully added to the database.

OK

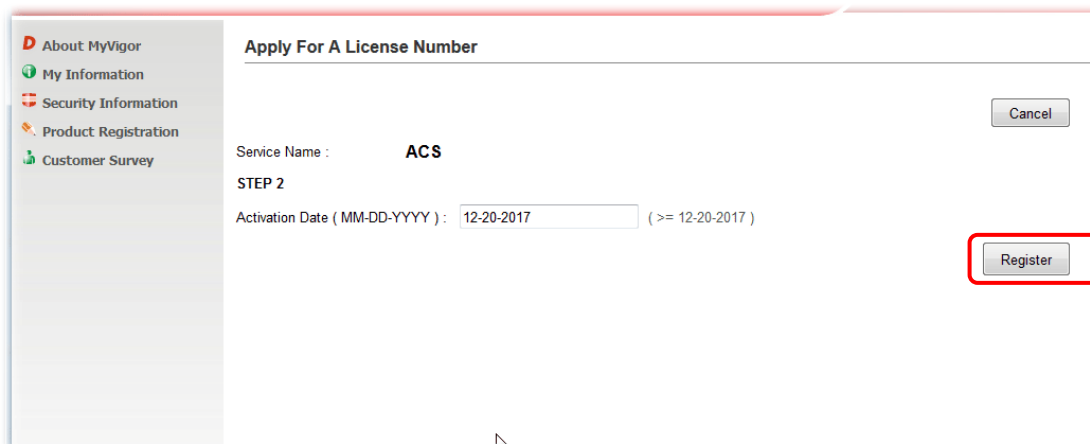
- You will get a device information page as shown below. If you are the new user of VigorACS, you can get a free charge of 30-day service of VigorACS. Simply click the Trial button.



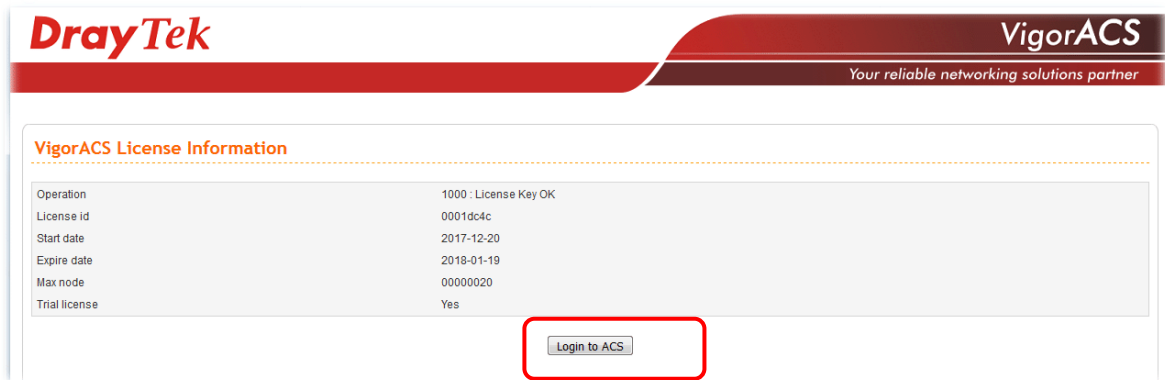
- From the following screen, check the box of "I have read and accept the above...." and click Next.



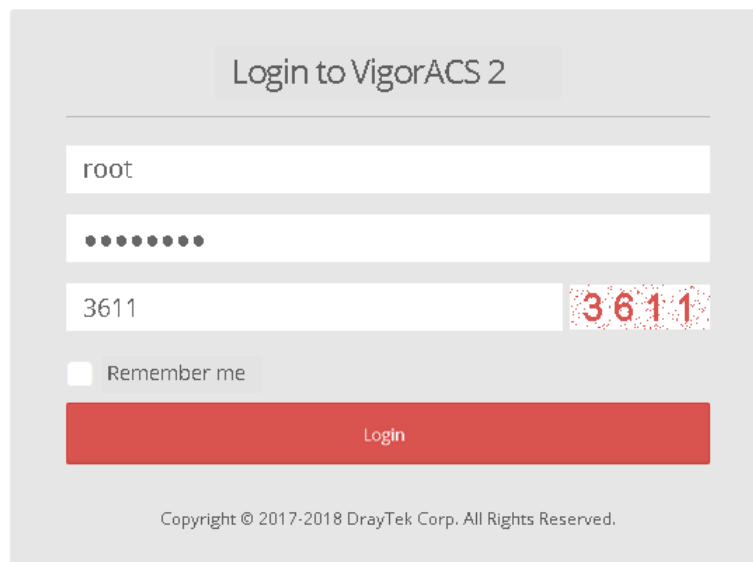
- In the page below, click Register.



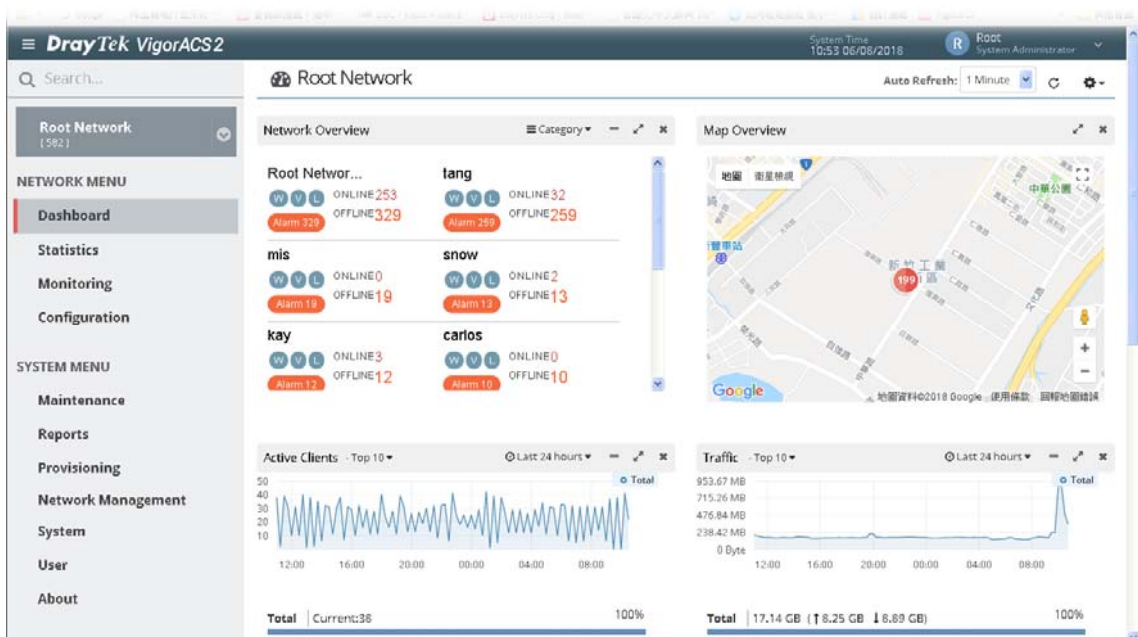
11. When the VigorACS License Information page appears, the service is ready for you to use. Click Login to ACS to use VigorACS service.



12. The login page will appear as follows. Type the default settings of User Name (root) and Password (admin123) and type the authentication code. Then, click Login.



13. Now, the main screen of VigorACS will be shown as follows.



4. Configuration on CPE Device

4.1 Set ACS URL on CPE

To manage CPEs through VigorACS, you have to set ACS URL on CPE first and set username and password for VigorACS.

1. Connect one CPE (e.g., Vigor2862 series).
2. Open a web browser (for example, IE, Mozilla Firefox or Netscape) on your computer and type <http://192.168.1.1>.
3. Please type username and password on the window. If you don't know the correct username and password, please consult your dealer to get them. In this section, we take the figures displayed on Windows as examples.



DrayTek Vigor2862 Series

Login

Username

Password

Login

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4. Go to System Maintenance -> TR-069.

System Maintenance >> TR-069 Setting

ACS and CPE Settings **Export Parameters**

Tr069 Disable Enable

ACS Server On Internet ▾

ACS Server

URL http://172.16.3.185:80/ACSServer/services/ACSServlet Wizard

Acquire URL from DHCP option 43

Username acs

Password

Test With Inform Event Code PERIODIC ▾

Last Inform Response Time :(NA) ●

CPE Client

Http Https

URL http://172.16.3.130:8069/cwm/CRN.html

Port 8069

Username vigor

Password

Periodic Inform Settings

Disable

Enable

Interval Time 900 second(s)

- Please set URL as the following and type username and password for ACS server, for the connected CPE with authentication:
http://{IP address of VigorACS}:80/ACSServer/services/ACSServlet
 - Please set URL as the following, for the connected CPE without authentication:
http://{IP address of VigorACS}:80/ACSServer/services/UnAuthACSServlet
 - Please set URL as the following, for the connected CPE with authentication and the data transmission between CPE and VigorACS 2 with encryption (SSL).
https://{IP address of VigorACS}:443/ACSServer/services/ACSServlet
 - Please set URL as the following, for the connected CPE without authentication but the data transmission between CPE and VigorACS 2 with encryption (SSL)
https://{IP address of VigorACS}:443/ACSServer/services/UnAuthACSServlet
5. Fill Username and Password for VigorACS 2 Server for authentication. Please enter as the following:
- Username: *acs*
- Password: *password*
6. For the username and password of CPE client, it is not necessary for you to type them.
7. Click **Enable** for Periodic Inform Settings.

4.2 Invoke Remote Management for CPE

You have to make sure that the CPE device you want to connect supports VigorACS 2 features. Please consult your dealer if you have no idea in it.

1. Suppose WAN IP of CPE device has been setup successfully. And you can access into Internet without difficulty.
2. Login the device (e.g., Vigor2862) by web.
3. Go to **System Maintenance>>Management**.
4. Check **Allow management from the Internet** to set management access control.

System Maintenance >> Management



IPv4 Management Setup	IPv6 Management Setup	LAN Access Setup
Router Name <input type="text" value="DrayTek"/>		
<input type="checkbox"/> Default:Disable Auto-Logout <input type="checkbox"/> Enable Validation Code in Internet/LAN Access		
Internet Access Control		
<input checked="" type="checkbox"/> Allow management from the Internet		
Domain name allowed <input type="text"/>		
<input type="checkbox"/> FTP Server		
<input type="checkbox"/> HTTP Server <input type="checkbox"/> Enforce HTTPS Access		
<input checked="" type="checkbox"/> HTTPS Server		
<input type="checkbox"/> Telnet Server		
<input checked="" type="checkbox"/> TR069 Server		
<input type="checkbox"/> SSH Server		
<input type="checkbox"/> SNMP Server		
<input checked="" type="checkbox"/> Disable PING from the Internet		
Access List from the Internet		
List	index in	IP / Mask
	IP Object	
1	<input type="text"/>	<input type="text"/>
Management Port Setup		
<input checked="" type="radio"/> User Define Ports <input type="radio"/> Default Ports		
Telnet Port	<input type="text" value="23"/>	(Default: 23)
HTTP Port	<input type="text" value="80"/>	(Default: 80)
HTTPS Port	<input type="text" value="443"/>	(Default: 443)
FTP Port	<input type="text" value="21"/>	(Default: 21)
TR069 Port	<input type="text" value="8069"/>	(Default: 8069)
SSH Port	<input type="text" value="22"/>	(Default: 22)
Brute Force Protection		
<input type="checkbox"/> Enable brute force login protection		
<input type="checkbox"/> FTP Server		
<input type="checkbox"/> HTTP Server		
<input type="checkbox"/> HTTPS Server		
<input type="checkbox"/> Telnet Server		
<input type="checkbox"/> TR069 Server		
<input type="checkbox"/> SSH Server		
Maximum login failures: <input type="text" value="5"/> times		

4.3 Enable WAN Connection on CPE

You have to make sure the CPE device you want to connect has been configured properly and can access into Internet.

1. Login the device (e.g., Vigor2862) by web.
2. Open WAN>>Internet Access.
3. Choose Static or Dynamic IP as Access Mode and click Details Page for WAN2.

WAN >> Internet Access

Index	Display Name	Physical Mode	Access Mode		
WAN1		ADSL / VDSL2	PPPoE / PPPoA	Details Page	IPv6
WAN2		Ethernet	Static or Dynamic IP	Details Page	IPv6
LTE		USB	None	Details Page	IPv6
WAN4		USB	None	Details Page	IPv6

Note:

Device on USB port applies WAN4 configuration.

DHCP Client Option

4. The following web page appears. Click **Enable** and **Specify an IP address**. Enter correct WAN IP address, subnet mask and gateway IP address for your CPE. Then click OK.

WAN >> Internet Access

WAN 2

PPPoE	Static or Dynamic IP	PPTP/L2TP	IPv6
<input checked="" type="radio"/> Enable <input type="radio"/> Disable		Keep WAN Connection <input type="checkbox"/> Enable PING to keep alive PING to the IP: <input type="text"/> PING Interval: <input type="text"/> minute(s)	
IP Network Settings <input type="radio"/> Obtain an IP address automatically More Options <input type="checkbox"/> <input checked="" type="radio"/> Specify an IP address IP Address: <input type="text" value="172.16.3.130"/> Subnet Mask: <input type="text" value="255.255.255.0"/> Gateway IP Address: <input type="text" value="172.16.3.1"/> <input type="button" value="WAN IP Alias"/>		TTL <input checked="" type="checkbox"/> Change the TTL value	
DNS Server IP Address Primary Server: <input type="text" value="8.8.8.8"/> Secondary Server: <input type="text" value="8.8.4.4"/>		RIP Routing <input type="checkbox"/> Enable RIP	
WAN Connection Detection Mode: <input type="text" value="ARP Detect"/>		Bridge Mode <input type="checkbox"/> Enable Bridge Mode <input type="checkbox"/> Enable Full Bridge Mode Bridge Subnet: <input type="text" value="LAN 1"/>	
MTU <input type="text" value="1500"/> <input type="button" value="Path MTU Discovery"/>		MAC Address <input checked="" type="radio"/> Default MAC Address <input type="radio"/> Use the following MAC Address <input type="text" value="00:1D:AA:6D:D1:1A"/>	

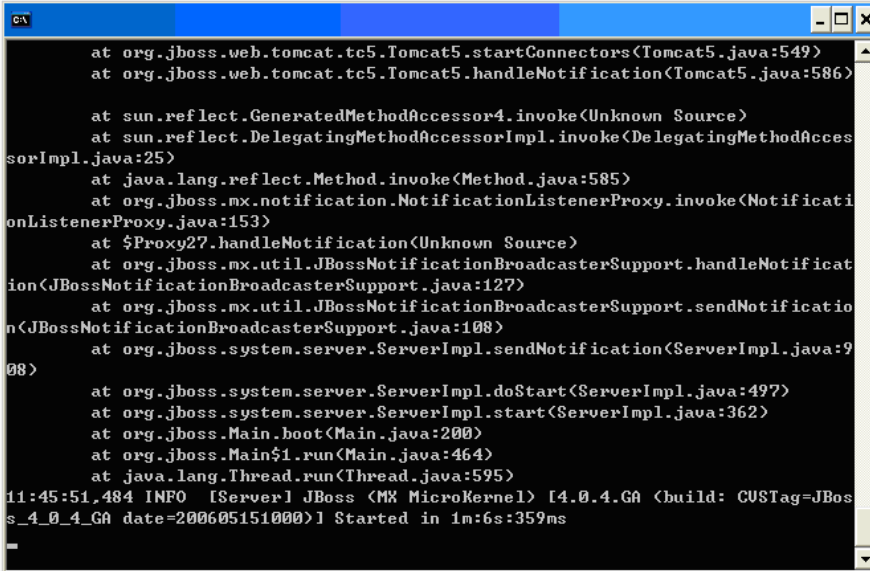


Info

Reboot the CPE device and re-log into VigorACS 2. CPE which has registered to VigorACS 2 will be captured and displayed on the home page of VigorACS 2.

5. Troubleshooting

When you try to invoke VigorACS 2 and get the following error message, please locate the file of "server.log" from C:/Program Files/VigorACS/server/default/log and send the file to your dealer for further assistance.



```
cmd
at org.jboss.web.tomcat.tc5.Tomcat5.startConnectors(Tomcat5.java:549)
at org.jboss.web.tomcat.tc5.Tomcat5.handleNotification(Tomcat5.java:586)

at sun.reflect.GeneratedMethodAccessor4.invoke(Unknown Source)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccess
sorImpl.java:25)
at java.lang.reflect.Method.invoke(Method.java:585)
at org.jboss.mx.notification.NotificationListenerProxy.invoke(NotificationLi
stenerProxy.java:153)
at $Proxy27.handleNotification(Unknown Source)
at org.jboss.mx.util.JBossNotificationBroadcasterSupport.handleNotificat
ion(JBossNotificationBroadcasterSupport.java:127)
at org.jboss.mx.util.JBossNotificationBroadcasterSupport.sendNotificatio
n(JBossNotificationBroadcasterSupport.java:108)
at org.jboss.system.server.ServerImpl.sendNotification(ServerImpl.java:9
08)

at org.jboss.system.server.ServerImpl.doStart(ServerImpl.java:497)
at org.jboss.system.server.ServerImpl.start(ServerImpl.java:362)
at org.jboss.Main.boot(Main.java:200)
at org.jboss.Main$1.run(Main.java:464)
at java.lang.Thread.run(Thread.java:595)
11:45:51.484 INFO [Server] JBoss (MX MicroKernel) [4.0.4.GA (build: CUS
Tag=JBos
s_4_0_4_GA date=200605151000)] Started in 1m:6s:359ms
```

For Linux system, please locate the file of "server.log" from /usr/local/vigoracs/VigorACS/server/default/log/ and send the file to your dealer for further assistance.