

ADLINK SEMA

SEMA Dashboard Installation Guide

Platform: Windows 8.1 x64

(rev. 1.0)

Manual Rev.: 1.0

Revision Date: August 12, 2015

Part No.:

Revision History

Revision	Date	Changes
1.00	2015/08/12	Initial release

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1 Prerequisites

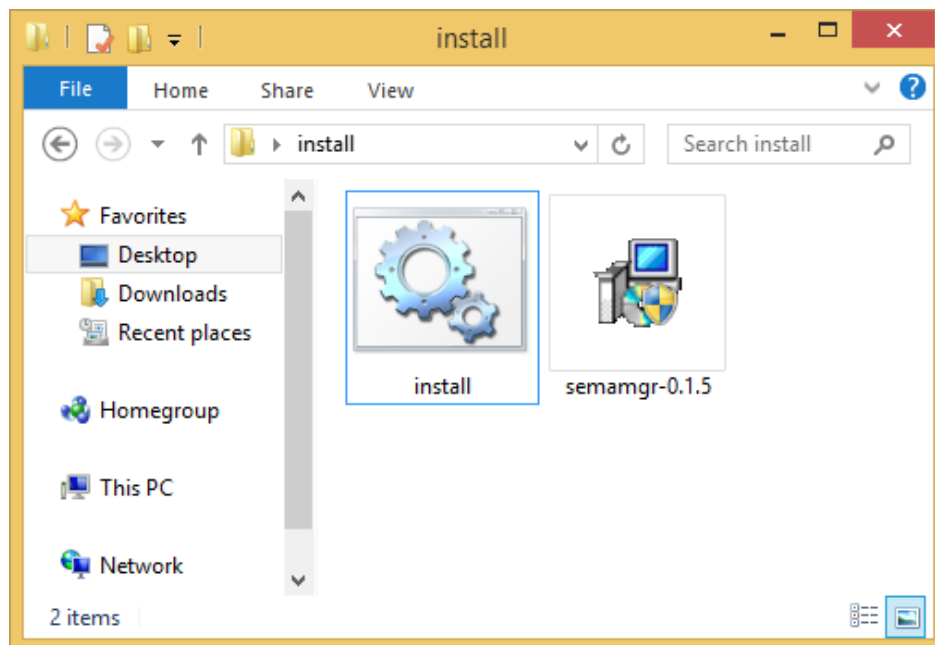
Get network ready.

Download installation programs:

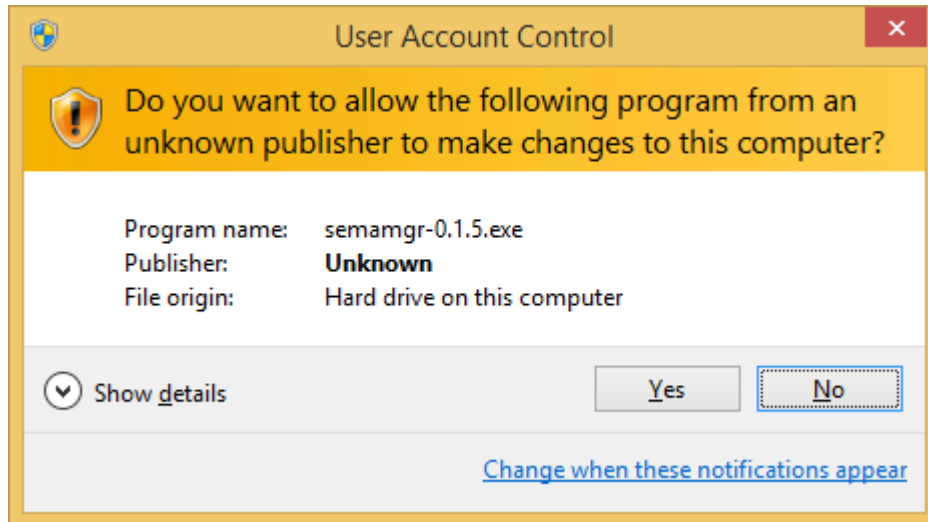
- install.bat
- semamgr-x.x.x.exe

2 Start up installation program

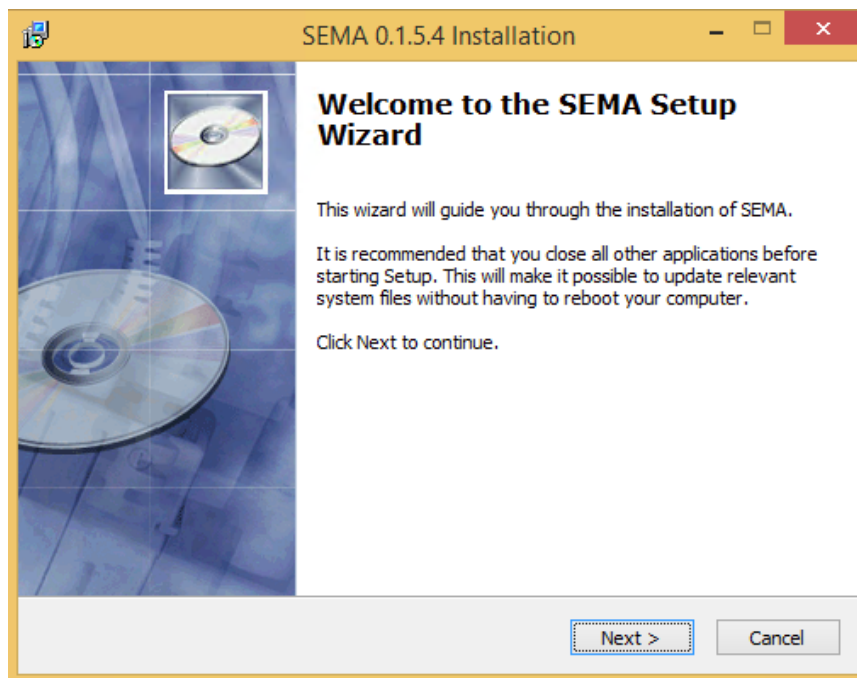
step 1. Prepare related installation file (containing semamgr-xxxexe, install.bat).

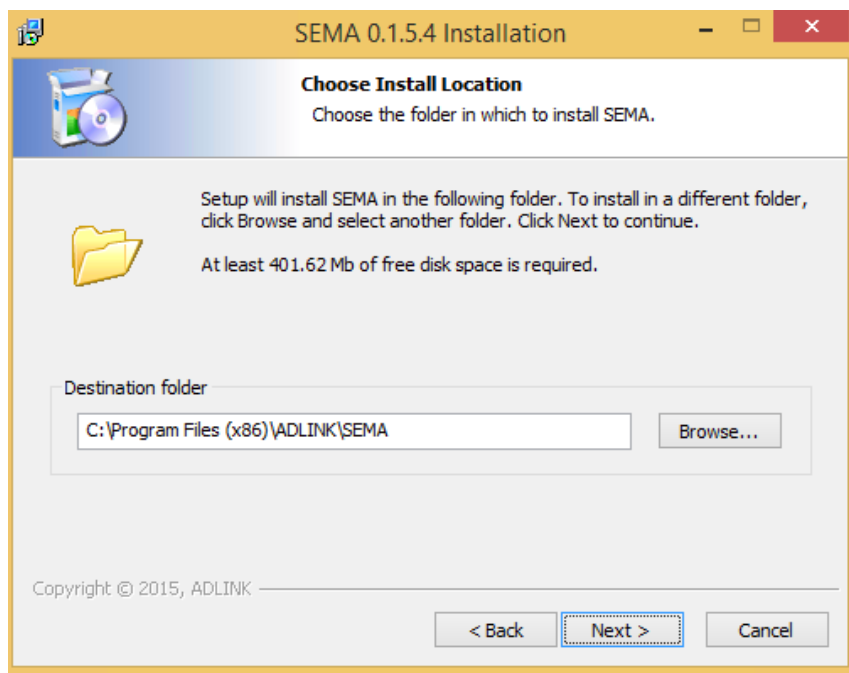


step 2. Execute semamgr-x.x.x.exe to start the installation. And then Press "Yes" in "User Account Control" window allow installation continue.

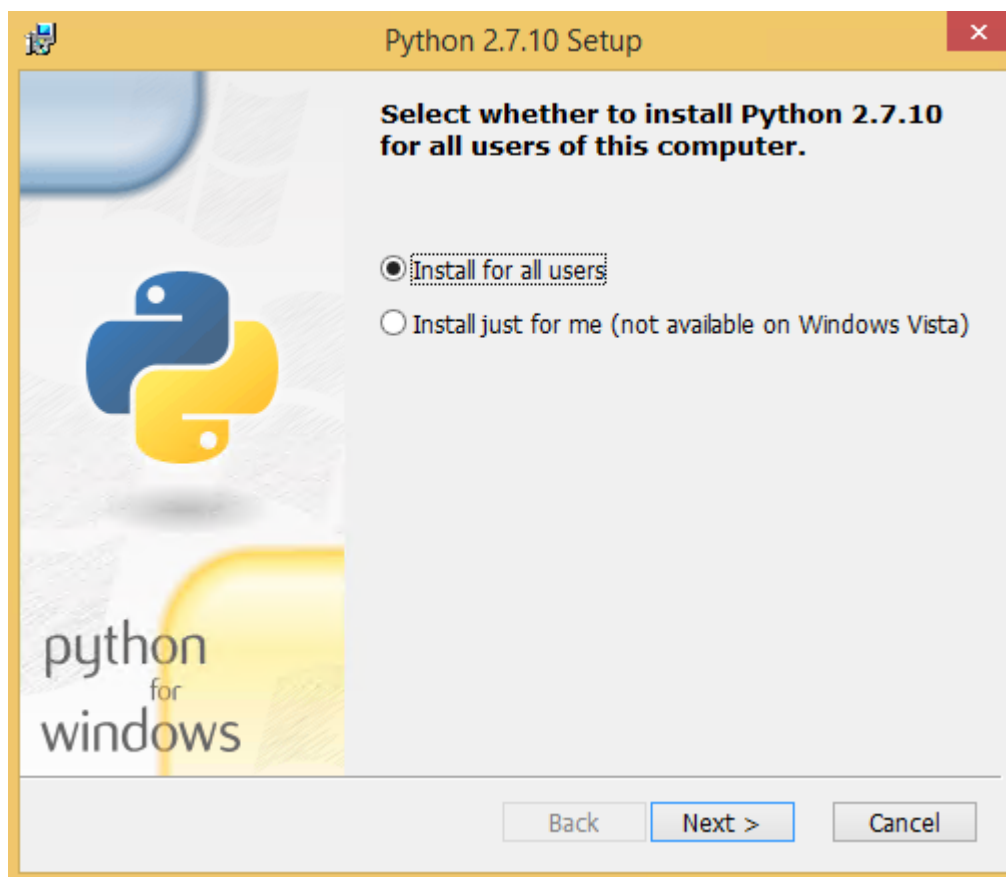


step 3. Press "Next" to the destination path page. Do not change the default path and press "Next".

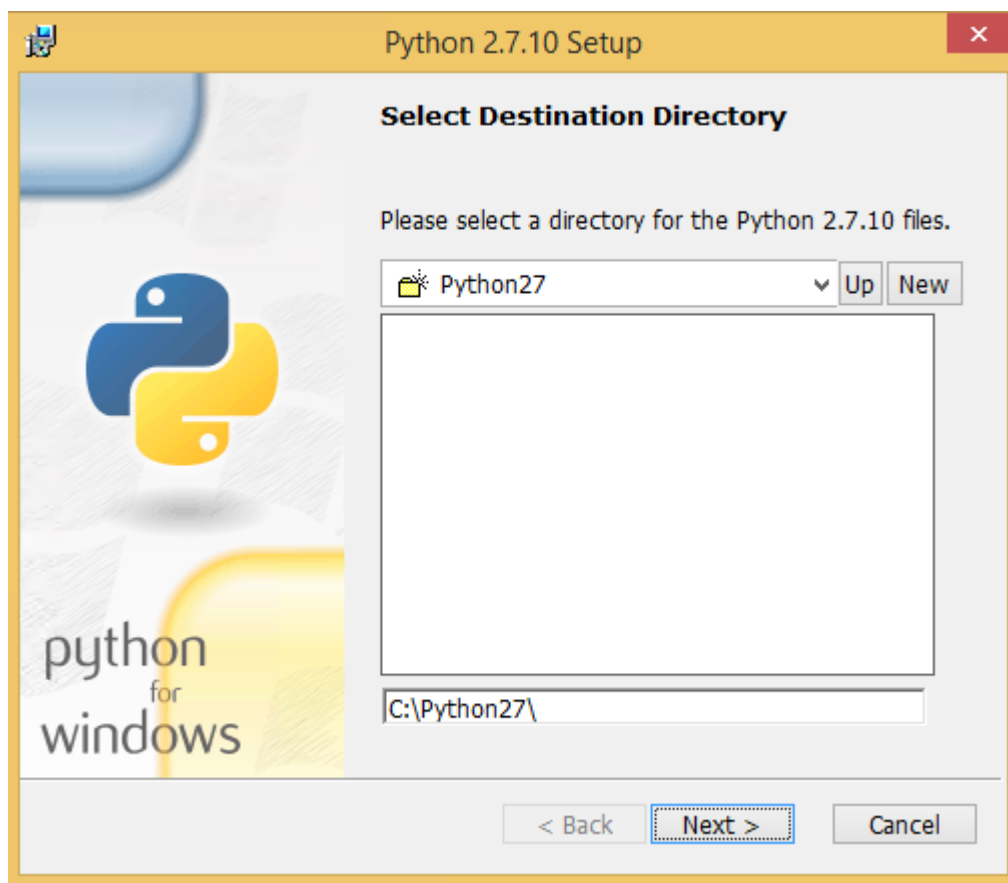




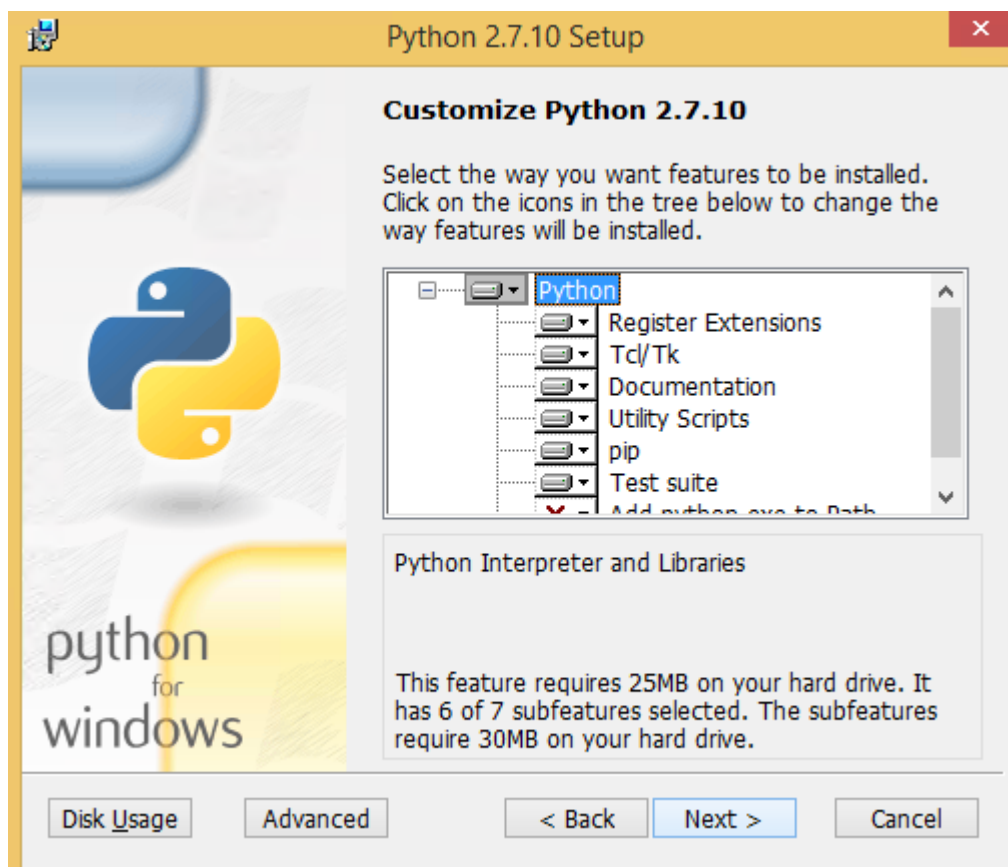
step 4. install Python. Select “Install for all users” and press “Next”.



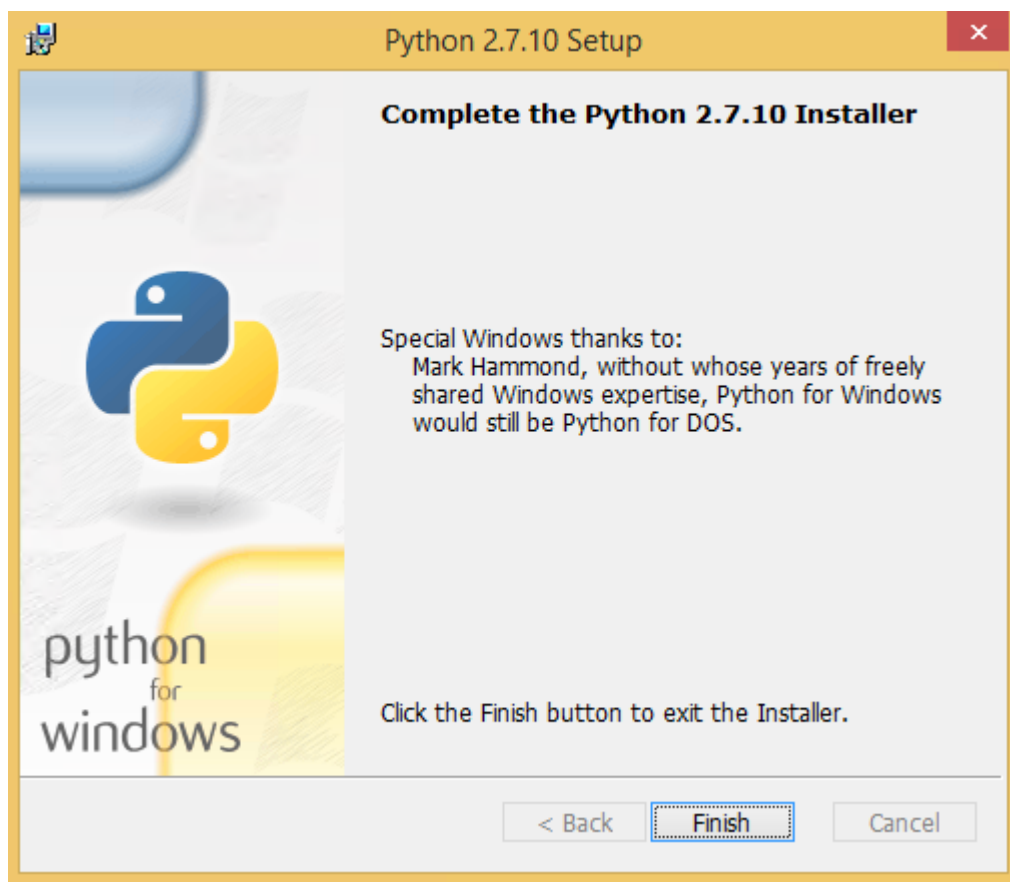
step 5. Do not change default setting and press “Next”.



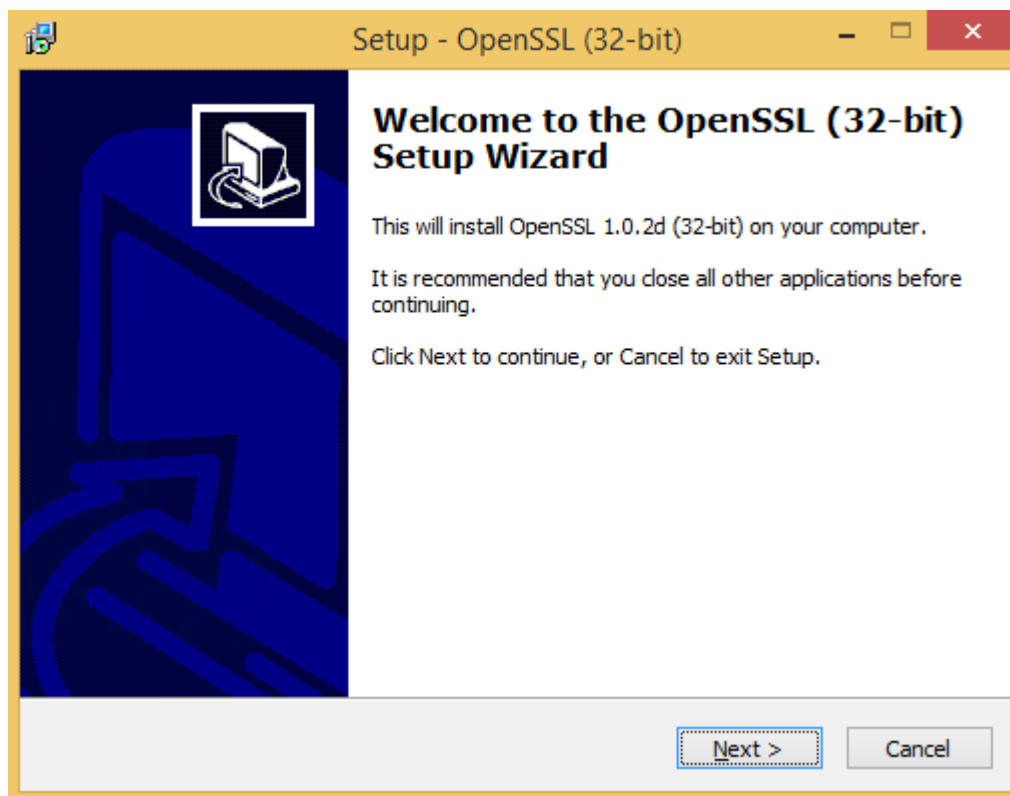
step 6. Do not change default setting and press “Next”.



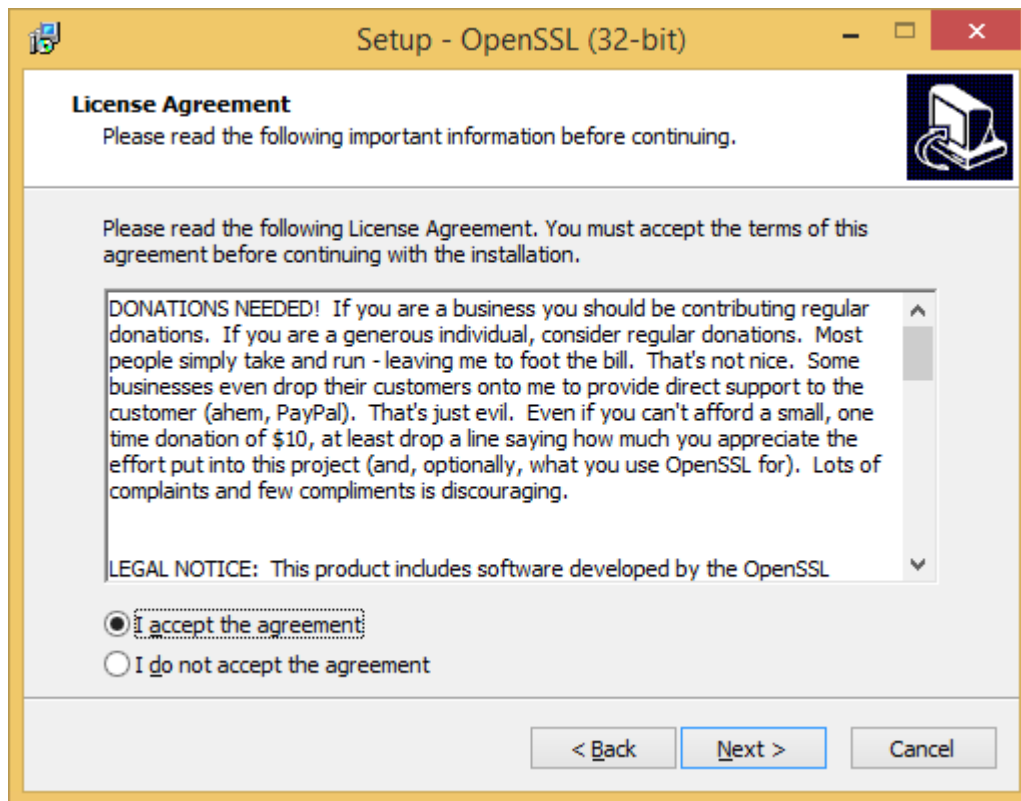
step 7. Press “Finish”.



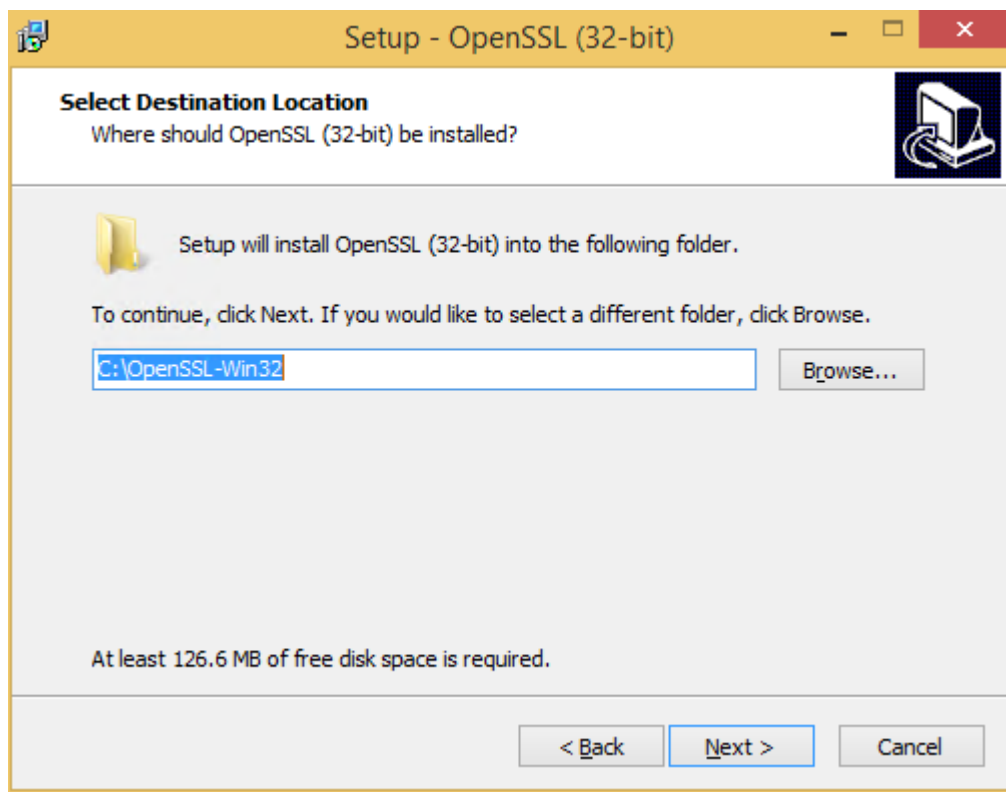
step 8. Do not change default setting and press “Next”.



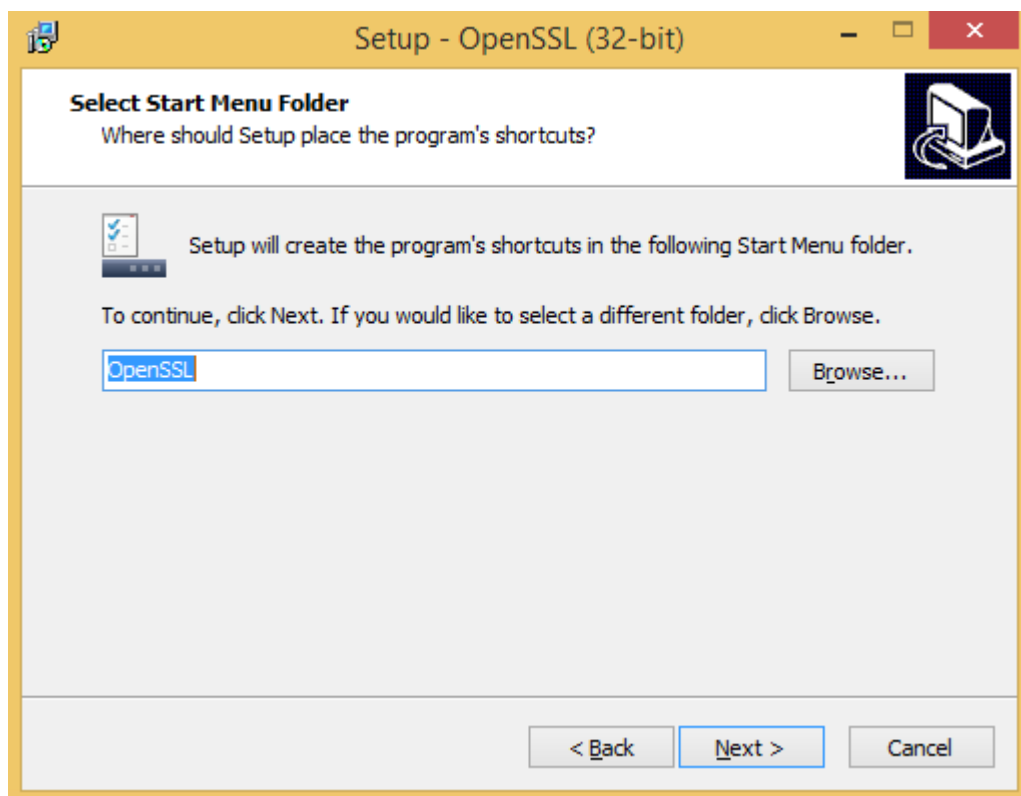
step 9. Select “I accept the agreement” and press “Next”.



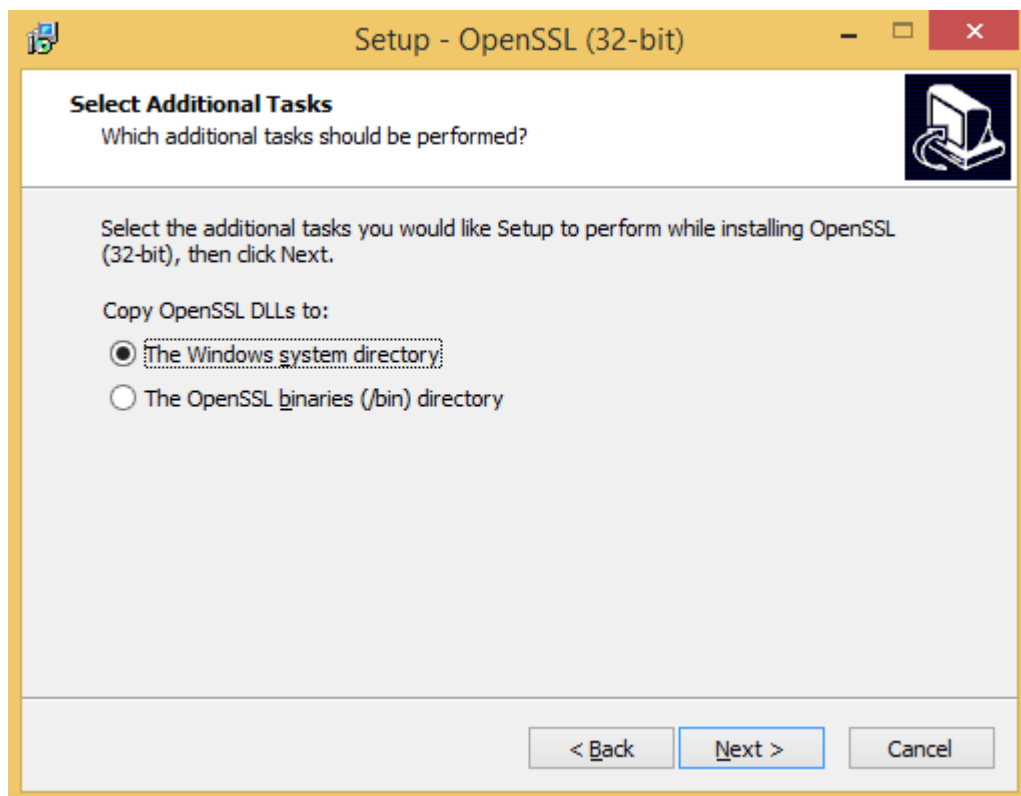
step 10. Do not change default setting and press “Next”.



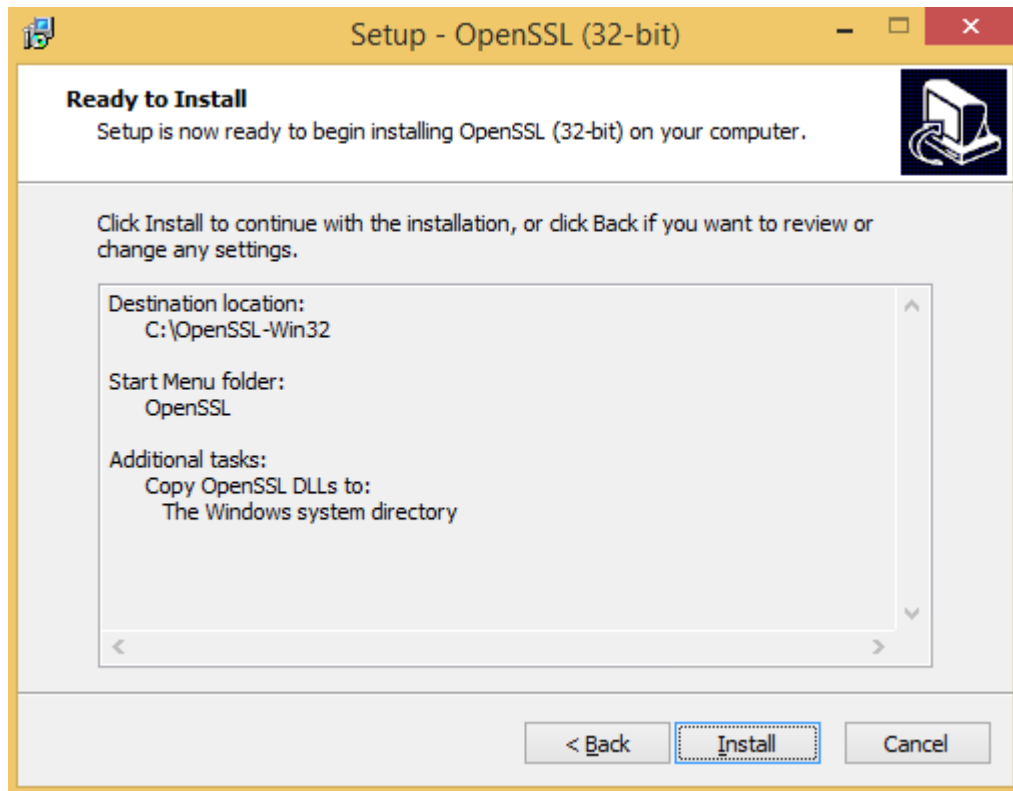
step 11. Do not change default setting and press “Next”.



step 12. Do not change default setting and press “Next”.



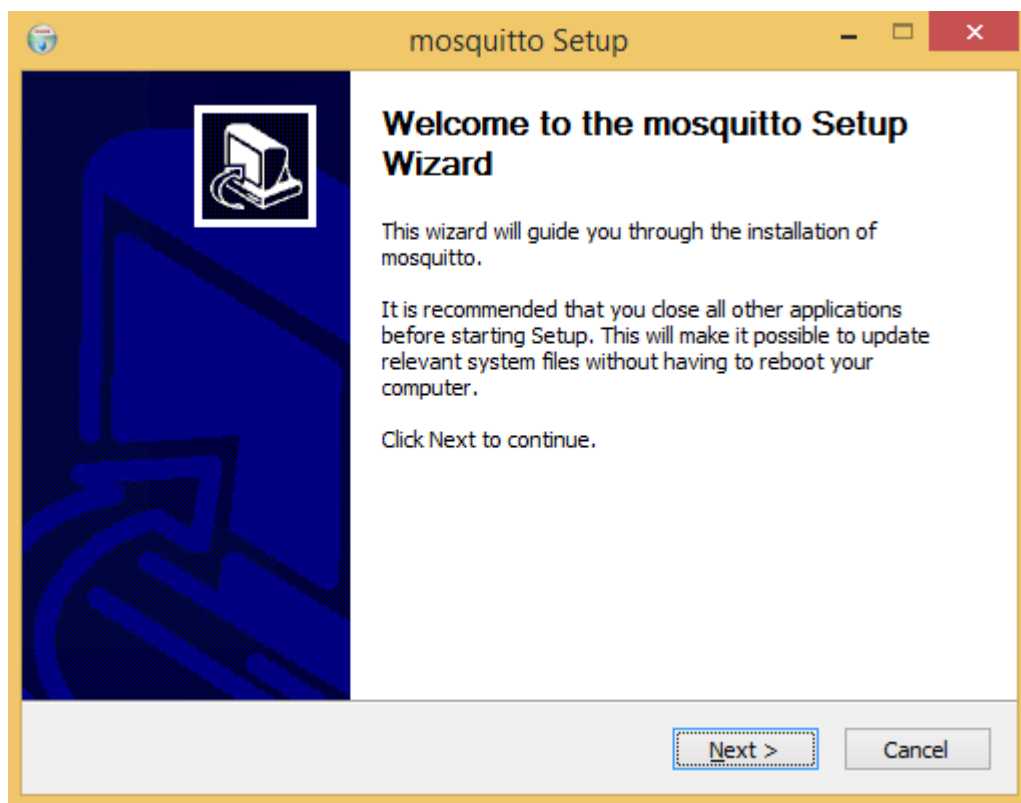
step 12. Press “Install”.



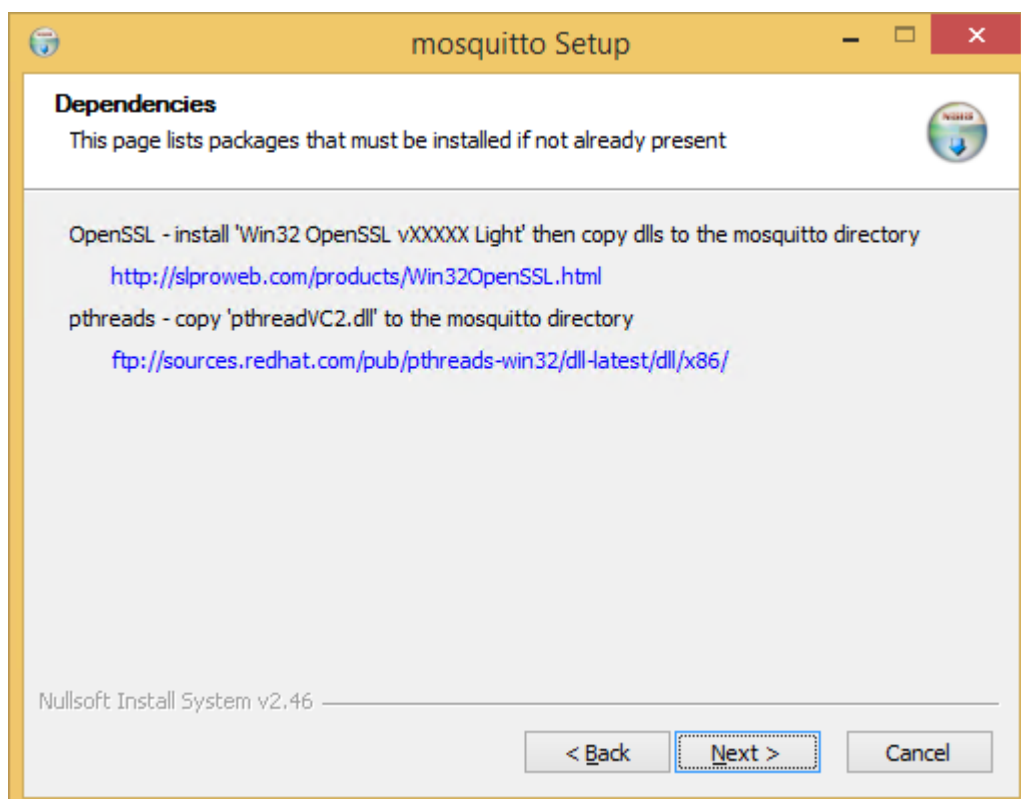
step 13. Disable default selection (One-time \$10 donation to Win32 OpenSSL) and press “Finish”.



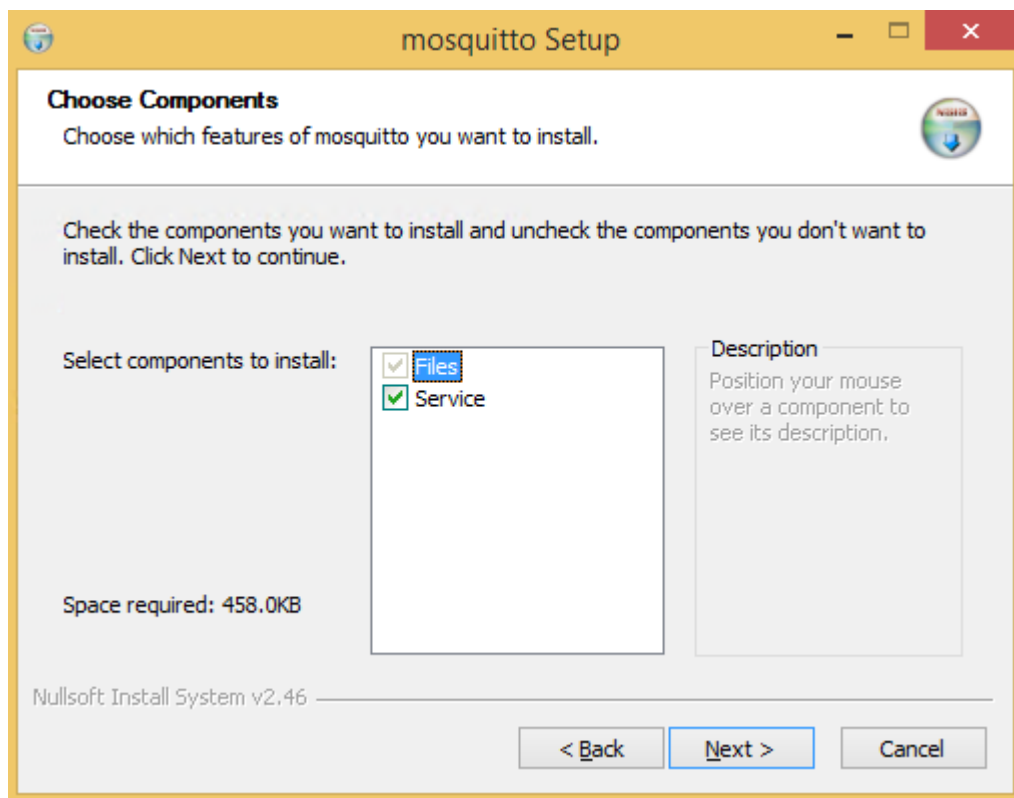
step 14. Press “Next”.



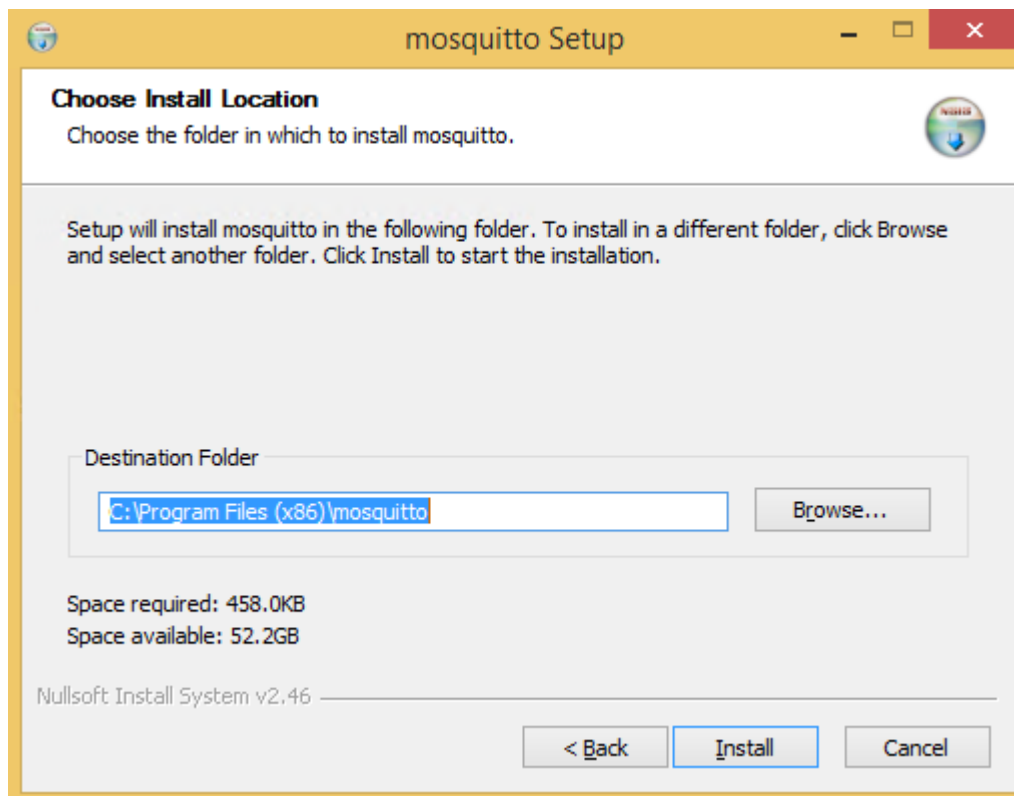
step 15. Press “Next”.



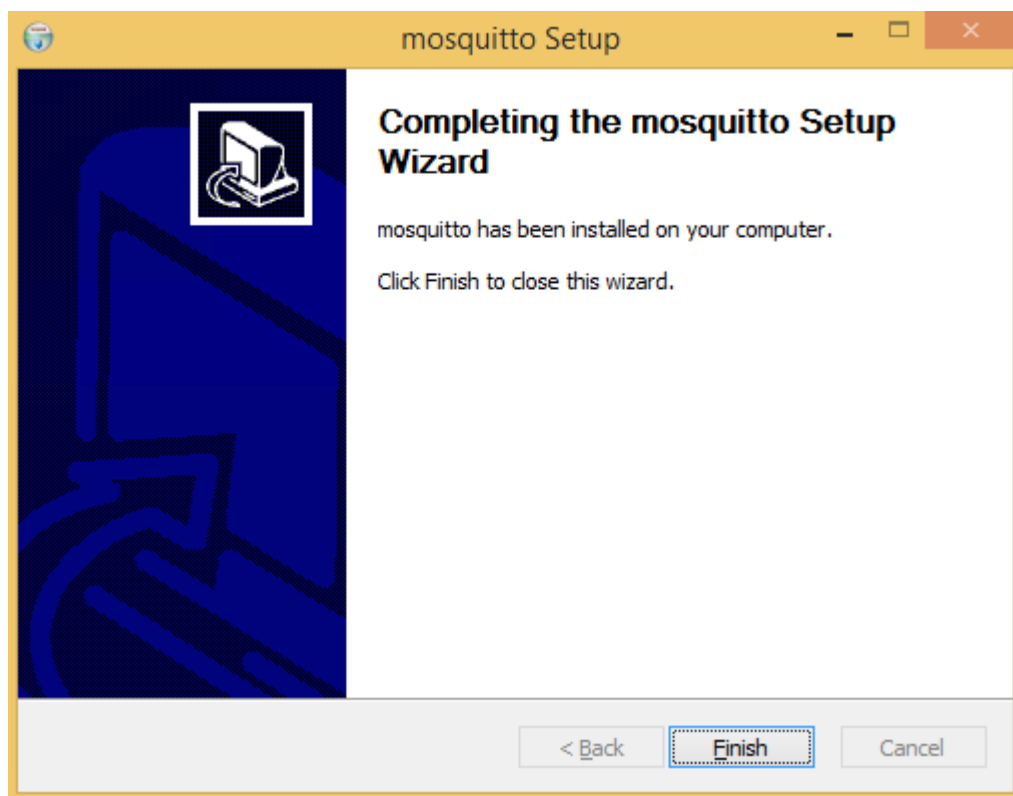
step 16. Do not change default setting and press “Next”.



step 17. Do not change default setting and press “Install”.



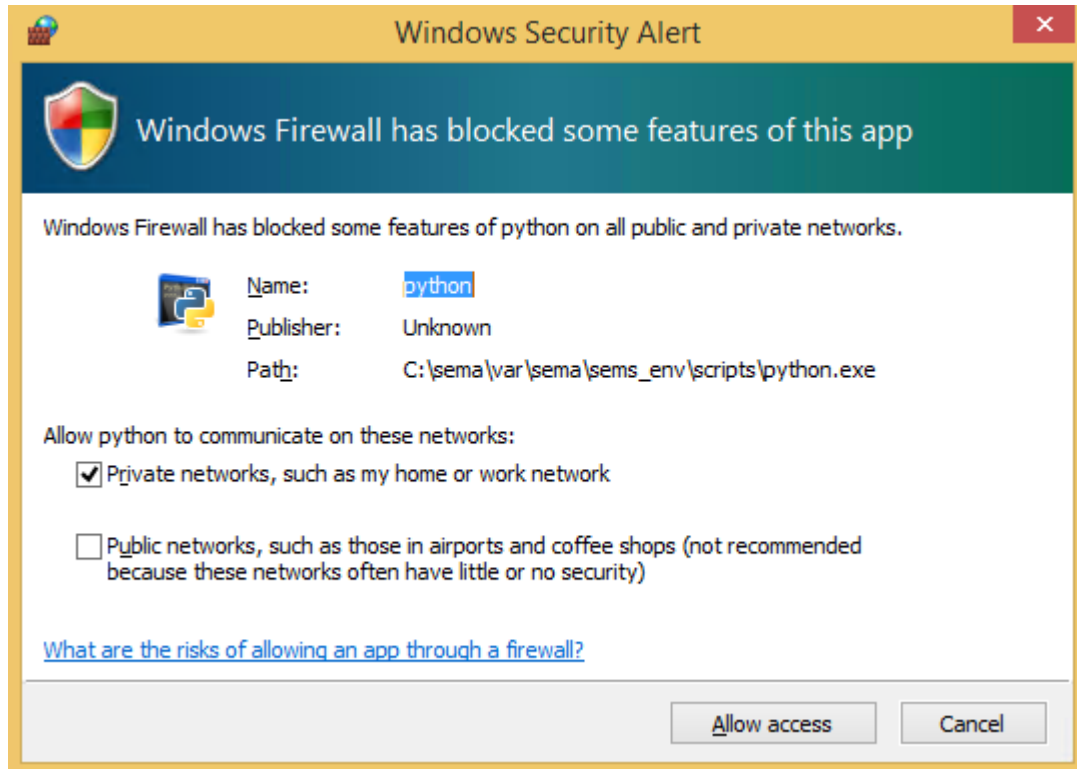
step 18. Press “Finish”.



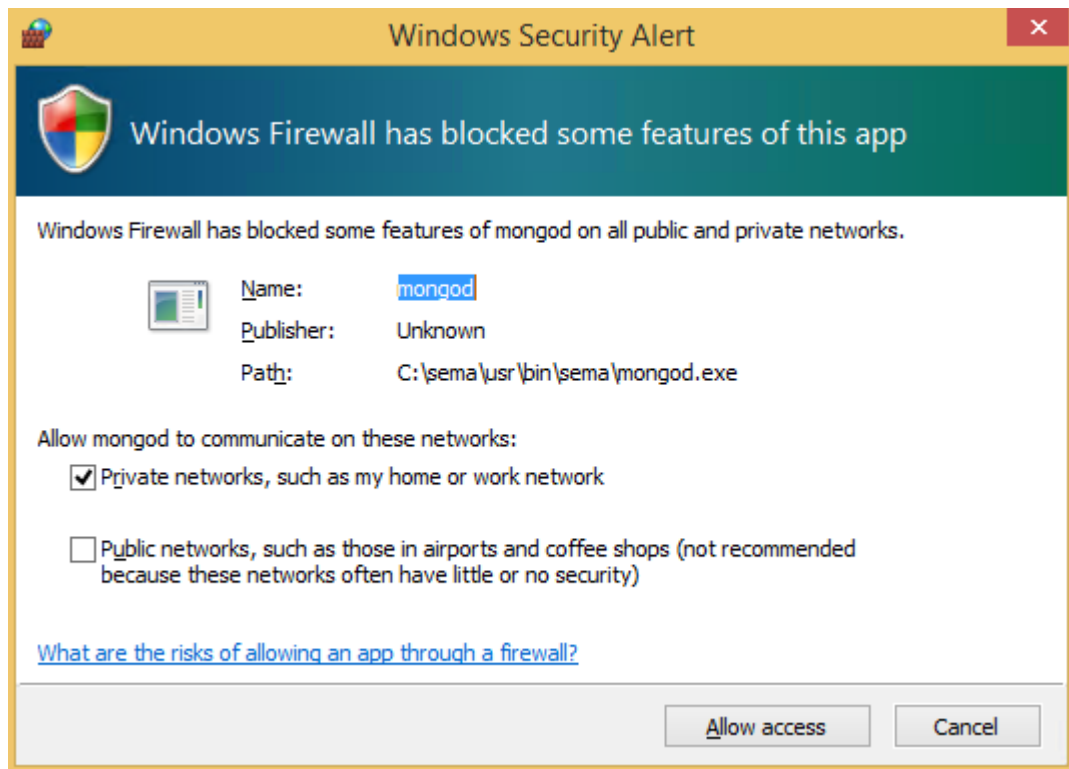
step 19. Press “Allow access”



step 20. Press “Allow access”



step 21. Press “Allow access”



The installation program will also create a Mongo DB on port 29017. The whole process takes about 30 minutes, please wait patiently.

3 Login to SEMA Dashboard

Open the following URL with a browser, such as Mozilla Firefox or Google Chrome, on the Windows server:

<http://127.0.0.1:8080>

Or find out the IP address of the Windows server by
`ipconfig`

and then open the following URL from a PC:

<http://x.x.x.x:8080>

where `x.x.x.x` is the IP address of the Windows server.

4 Configure SEMA Dashboard

There are six user configurable items in the system configuration file:

- (1) Push interval: the default value of push interval for a newly added thing, i.e. the time interval between two consecutive uploads. The default value of this item is 20 seconds.
- (2) Time zone: the default timezone of the server. The default value of this item is UTC.
- (3) Language: the default UI language of the server. The default value of this item is English
- (4) Default thing definition: the default thing definition for a newly added thing. The default settings for this item are: Small graphs, Top tab display, History, 24 hours, properties include CPU Temperature, System Temperature, CPU Fan Speed and System Fan 1 Speed.
- (5) E-mail relay: settings for the Email server, including IP address, TCP port number, TLS, account and password.
- (6) SMS provider: settings for the SMS broker, including URL, account, password and other parameters.

To change configuration settings, open the file

`C:\SEMA\var\sema\sems\sems\settings.py`

and find the `DEFAULT_SETTING` section (near the end of the file), an example is given as:

```
DEFAULT_SETTING={
```

```

    "Timezone": "UTC",
    "Language": "eng",
    "record_unit" : "Seconds",
    "record_rate" : 20
  }

```

To configure push interval, modify the **"record_unit"** and **"record_rate"** fields. The **"record_rate"** field specifies the value of the push interval. The **"record_unit"** field specifies the unit of the push interval. Valid units are Seconds, Minutes, Hours and Days.

To configure time zone, modify the **"Timezone"** field. Valid values of the time zone field can be found here:

http://en.wikipedia.org/wiki/List_of_tz_zones_by_name

To configure language, modify the **"Language"** field. Currently, **"eng"** (for English) is the only valid value for this item.

To configure default thing definition, find the **DEFAULT_THING_DEFINITIONS** section (near the end of the file, after the **DEFAULT_SETTING** section), an example is given as:

```

DEFAULT_THING_DEFINITIONS={
  "dd_id" : "Default7c65b92bcac1498fb7dd32917" ,
  "data":{
    "dd_create_date" : "1420070400",
    "dd_creator" : "admin",
    "dd_graph_option" : "Small graphs",
    "dd_id" : "Default7c65b92bcac1498fb7dd32917",
    "dd_name" : "Default",
    "dd_period" : "24",
    "dd_period_unit" : "hours",
    "dd_properties" : [
      "CPU Temperature",
      "System Temperature",
      "CPU Fan Speed",
      "System Fan 1 Speed"
    ],
  },
}

```

```

    "dd_series" : "history",
    "dd_update_date" : "1420070400",
    "dd_updater" : "admin",
    "dd_view_option" : "Top tab display"
  }
}

```

To configure E-mail relay, find the **EMAIL_RELAY** section, an example is given as:

```

EMAIL_RELAY = {
    "ip_address": "smtp.shinewave.com.tw",
    "login_account": "",
    "login_password": "",
    "enable_tls": False,
    "port": "25"
}

```

For ordinary Email server using SMTP protocol, replace "ip_address" by the IP address of the Email server, leave "enable_tls" false and "port" 25.

For Gmail, replace "ip_address" by "smtp.gmail.com", set "enable_tls" true and "port" 587.

To configure SMS provider, find the **SMS_PROVIDER** section, an example is given as:

```

SMS_PROVIDER = [{
    "id": 0,
    "name": "Bulksms",
    "url": "http://bulksms.vsms.net:5567/eapi/sub/sms/",
    "username_field": "username",
    "username": "shinewave",
    "password_field": "password",
    "password": "123456",
    "message_field": "message",
    "receiver_field": "msisdn",
    "receiver_separator": ",",
    "extra_params": ""
}, {

```

```

    "id": 1,
    "name": "SMS Get Paid",
    "url": "http://business.smsgetpaid.com/api_send.php",
    "username_field": "username",
    "username": "shinewave",
    "password_field": "password",
    "password": "123456",
    "receiver_field": "phone",
    "receiver_separator": ',',
    "extra_params": "method=1"
  }
]
SELECTED_SMS_PROVIDER=1

```

The system supports only SMS provider who has a REST API such as
http://business.smsgetpaid.com/api_send.php?username=shinewave&password=123456&phone=0987654321,0988776543&method=1

Getting Service

Contact us should you require any service or assistance.

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