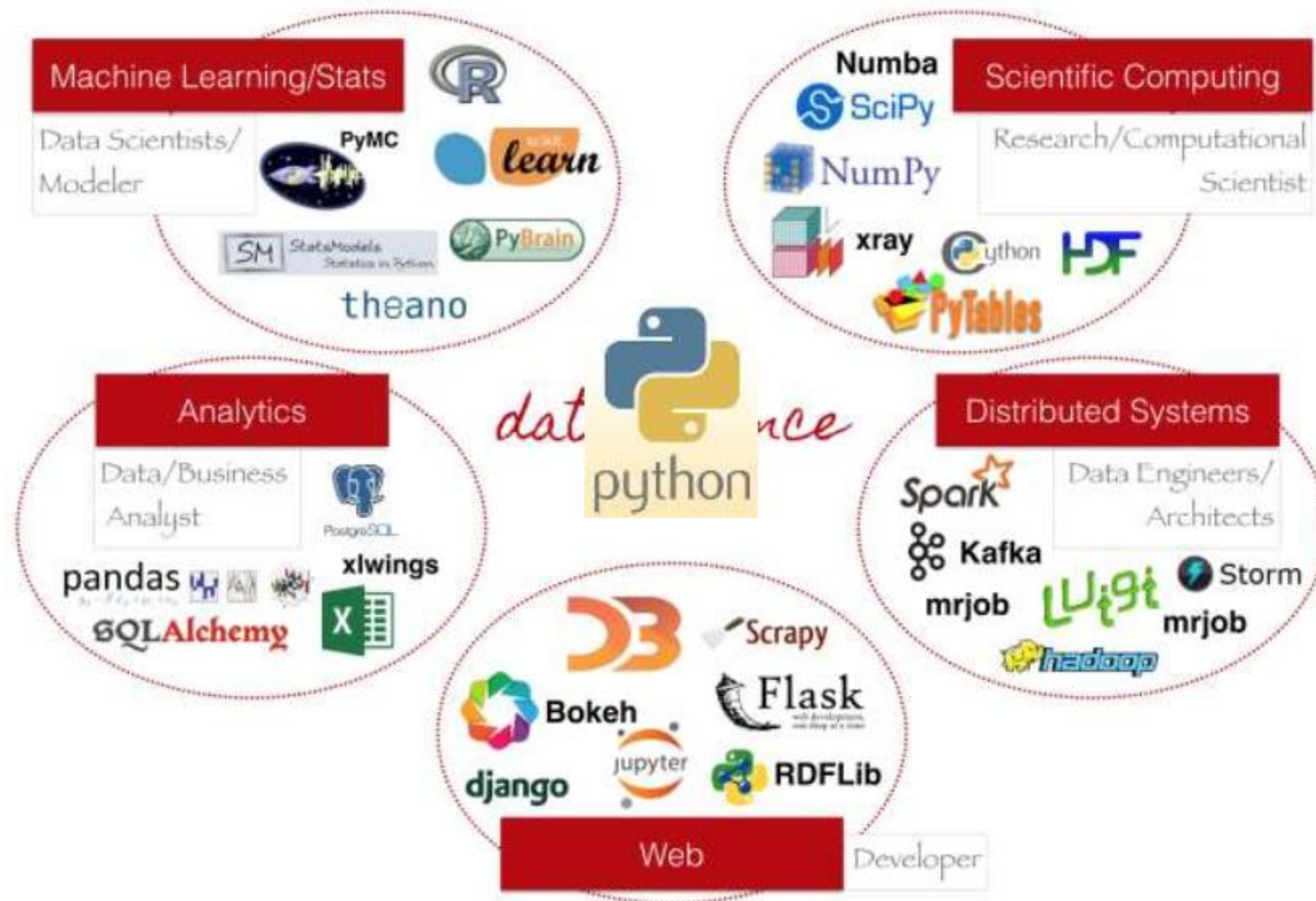


第一课 Python语言及工作环境准备

第五节 环境部署 (1)

主 讲: Robin

环境部署



环境部署



环境部署

安装Anaconda

- Anaconda是Python的一个科学计算发行版，内置了数百个Python经常会使用的库，包括做机器学习或数据挖掘的库
- Anaconda提供了一个编译好的环境可以直接安装
- 下载地址：
 - 官网最新版：<https://www.anaconda.com/download/>
 - 官网存档：<https://repo.continuum.io/archive/>
 - 国内镜像：<https://mirrors.tuna.tsinghua.edu.cn/anaconda/archive/>
- 版本选择：包含Python3.6版本的Anaconda (**Anaconda3-5.1.0**)
 - 注意：Anaconda版本和Python版本**不一样**！

环境部署

安装Anaconda

- 下载：根据操作系统下载对应版本的Anaconda

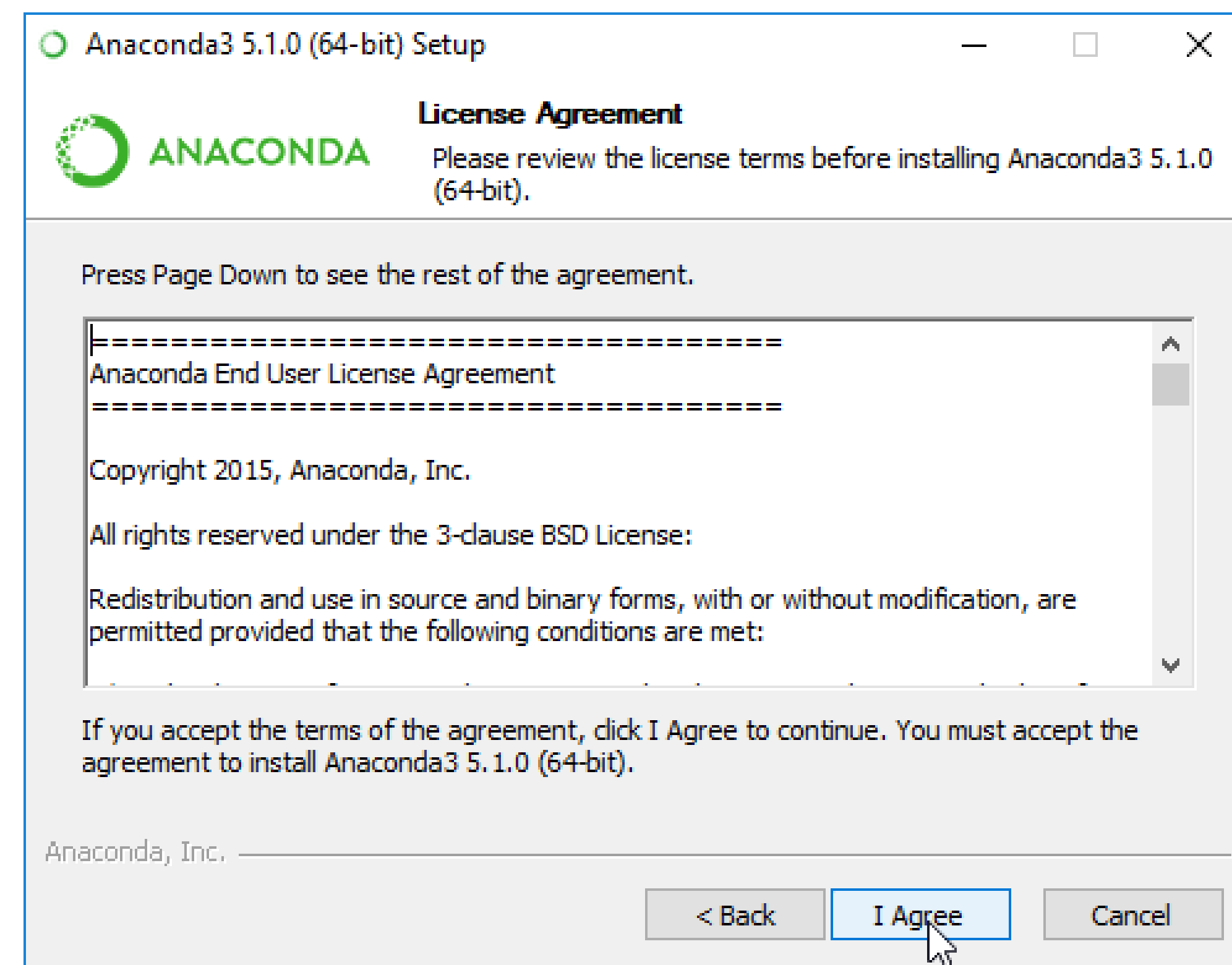
Linux	{	Anaconda3-5.1.0-Linux-ppc64le.sh	285.7M	2018-02-15 09:08:56
		Anaconda3-5.1.0-Linux-x86.sh	449.7M	2018-02-15 09:08:58
		Anaconda3-5.1.0-Linux-x86_64.sh	551.2M	2018-02-15 09:08:57
MacOS	{	Anaconda3-5.1.0-MacOSX-x86_64.pkg	594.7M	2018-02-15 09:09:06
		Anaconda3-5.1.0-MacOSX-x86_64.sh	511.3M	2018-02-15 09:10:24
Windows	{	Anaconda3-5.1.0-Windows-x86.exe	435.5M	2018-02-15 09:10:28
		Anaconda3-5.1.0-Windows-x86_64.exe	537.1M	2018-02-15 09:10:26

环境部署

Windows安装Anaconda

- 双击安装->同意协议

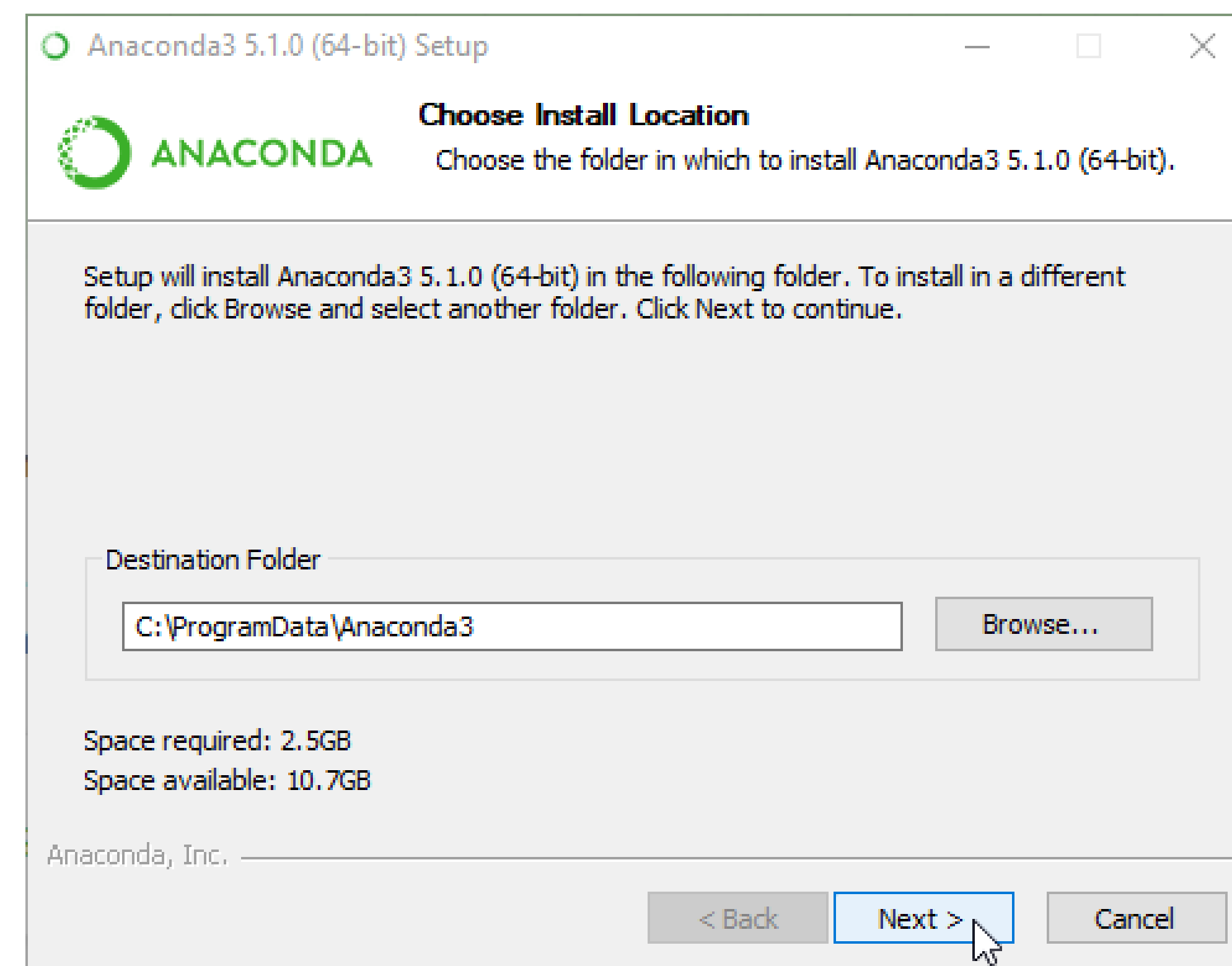
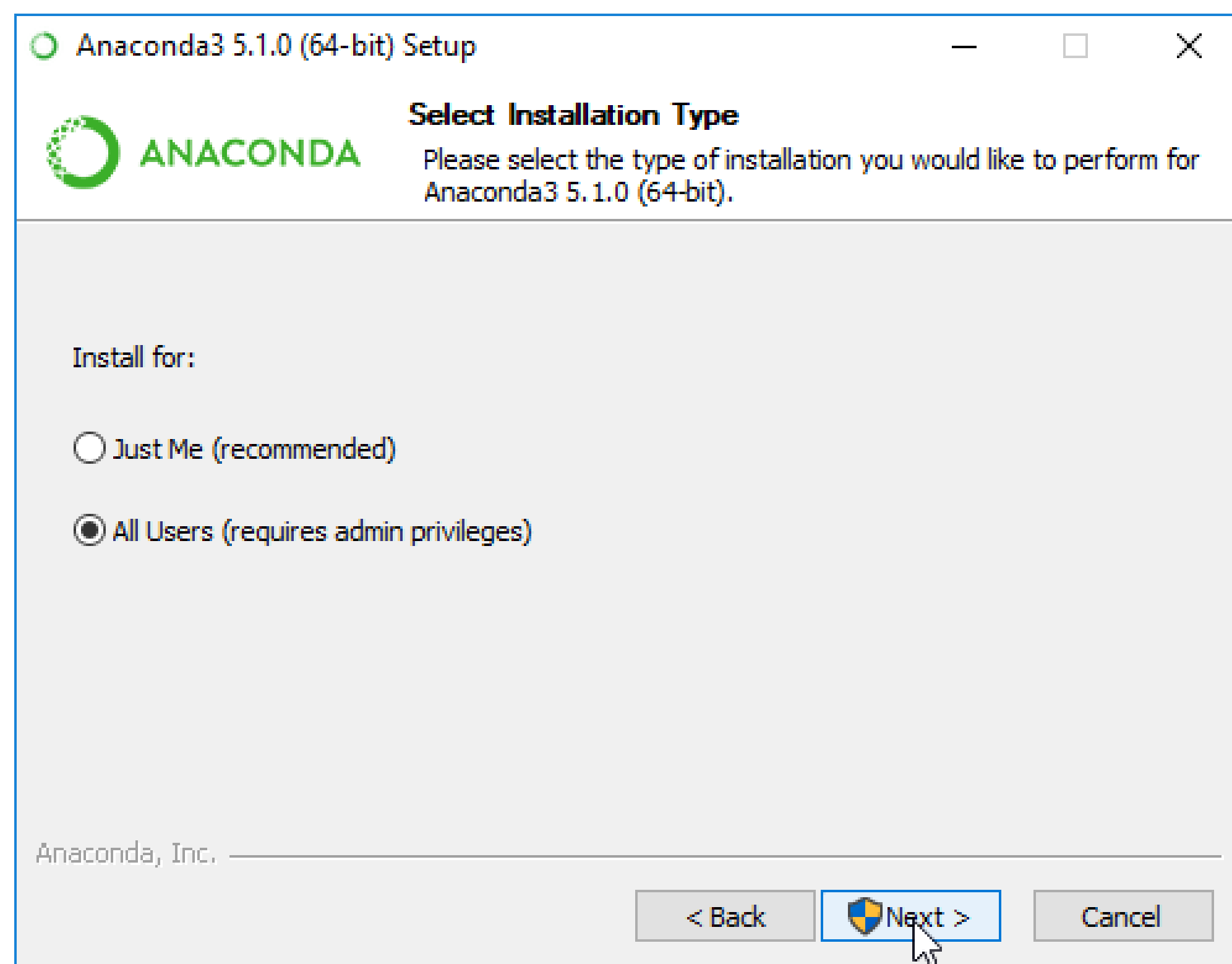
Anaconda3-5.1.0-Windows-x86.exe	435.5M	2018-02-15 09:10:28
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环境部署

Windows安装Anaconda

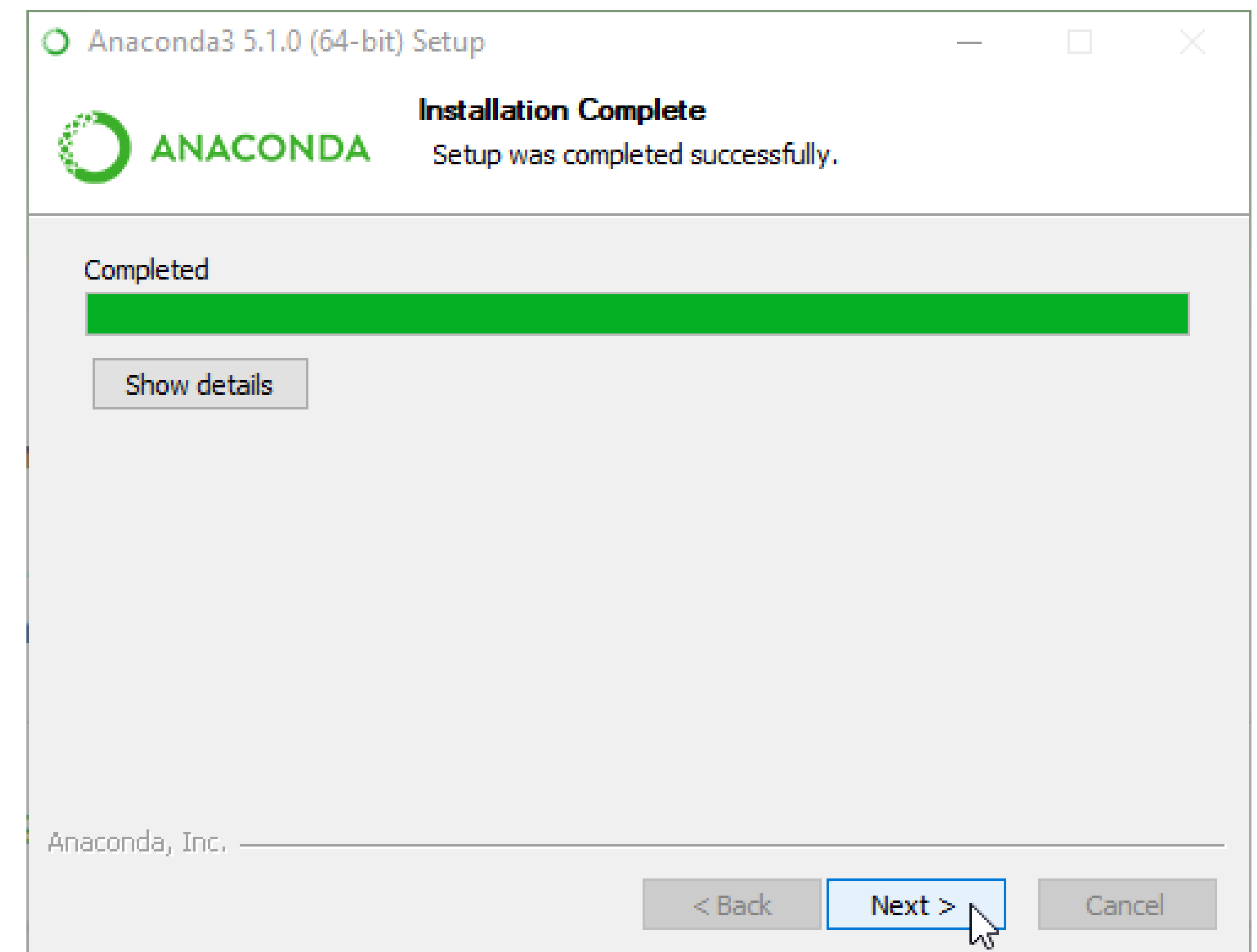
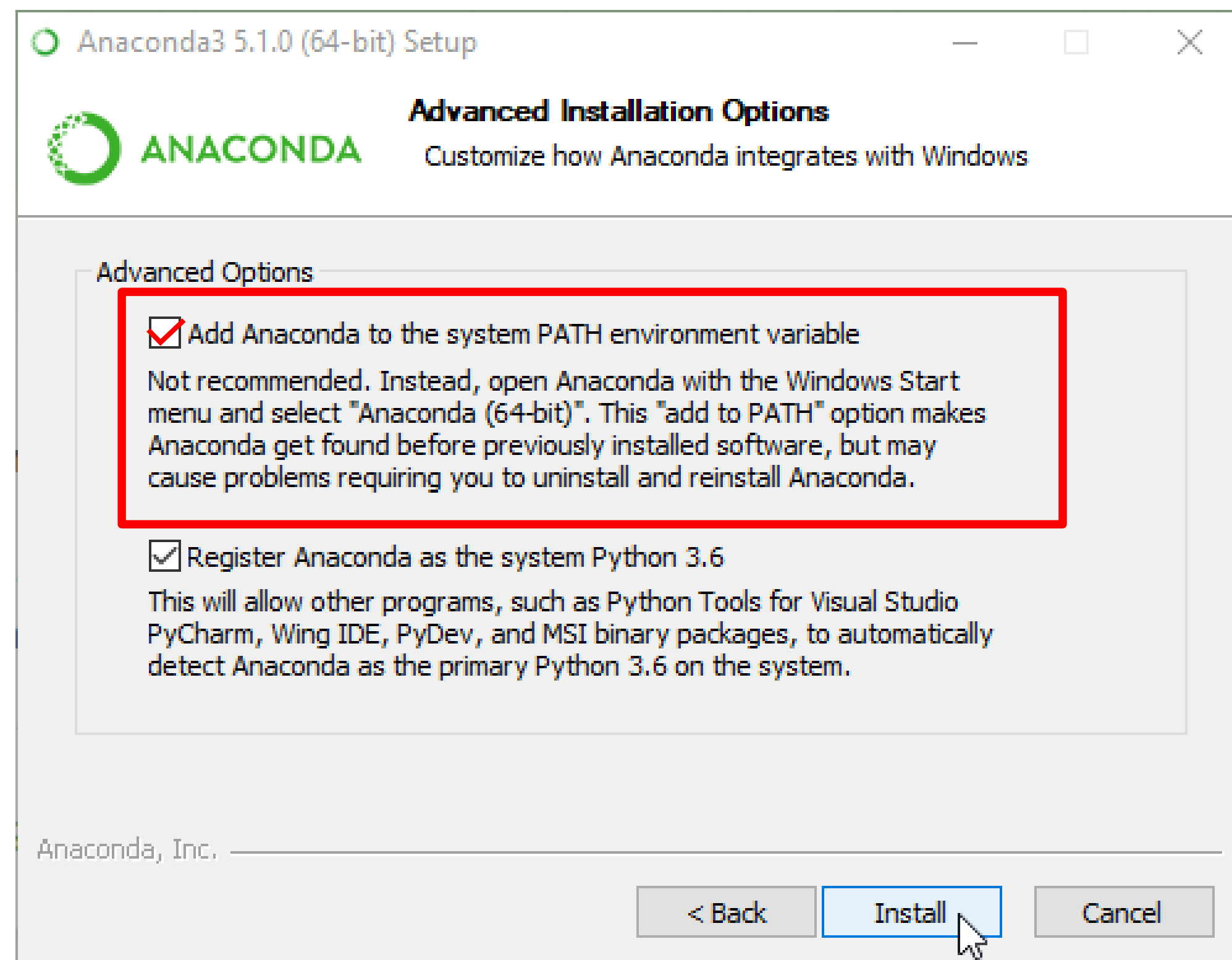
- 选择为所有用户安装 -> 选择安装路径



环境部署

Windows安装Anaconda

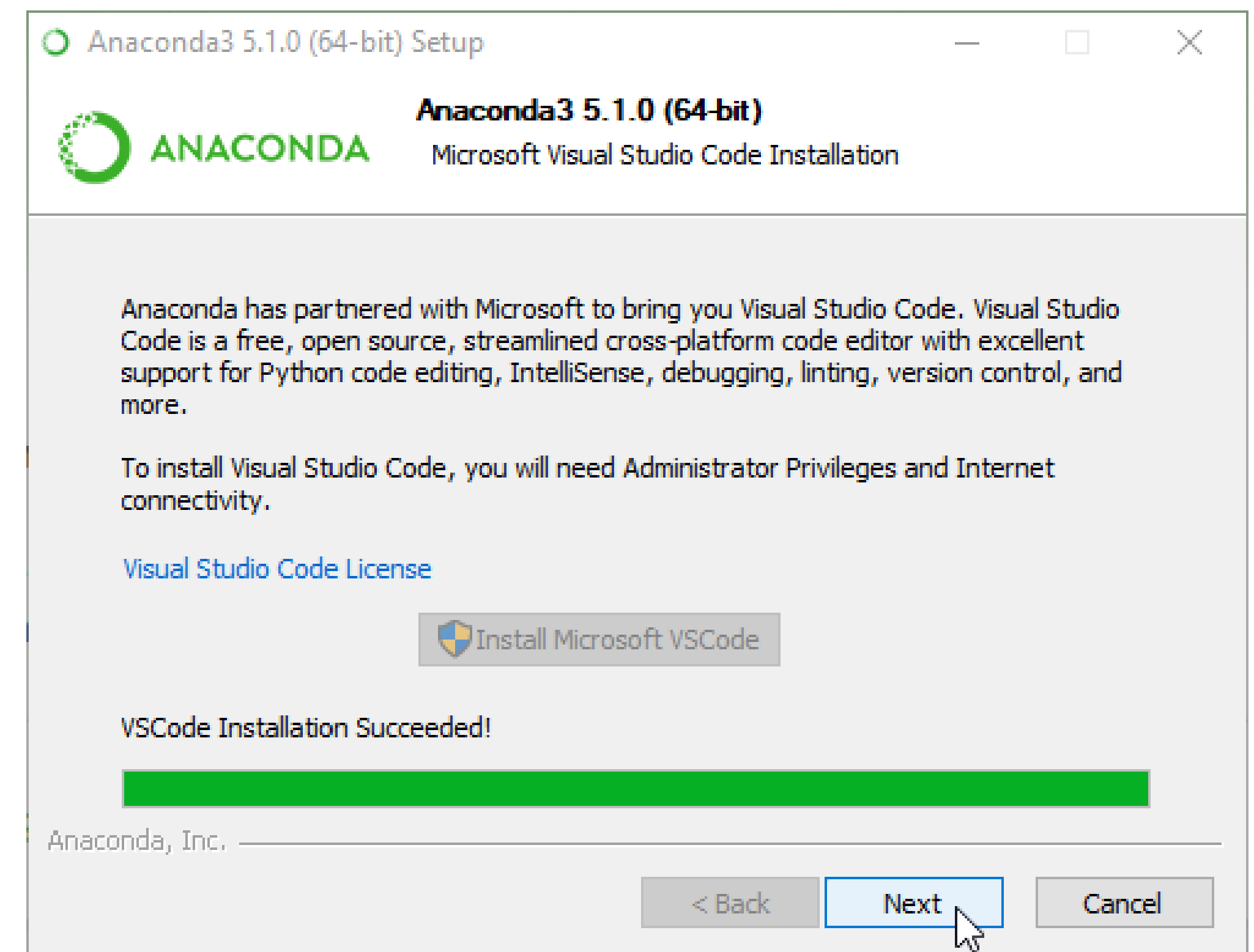
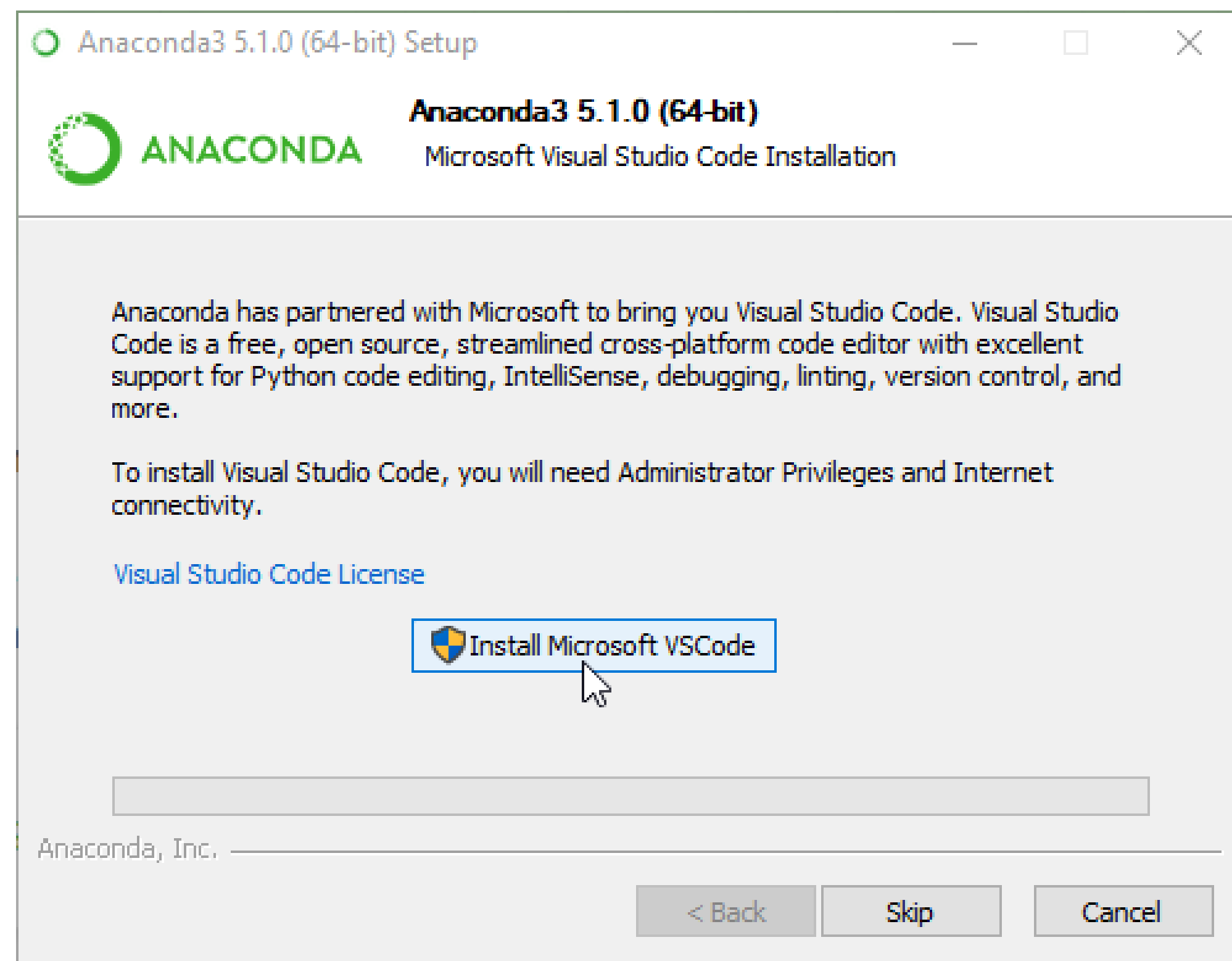
- 添加至环境变量->下一步



环境部署

Windows安装Anaconda

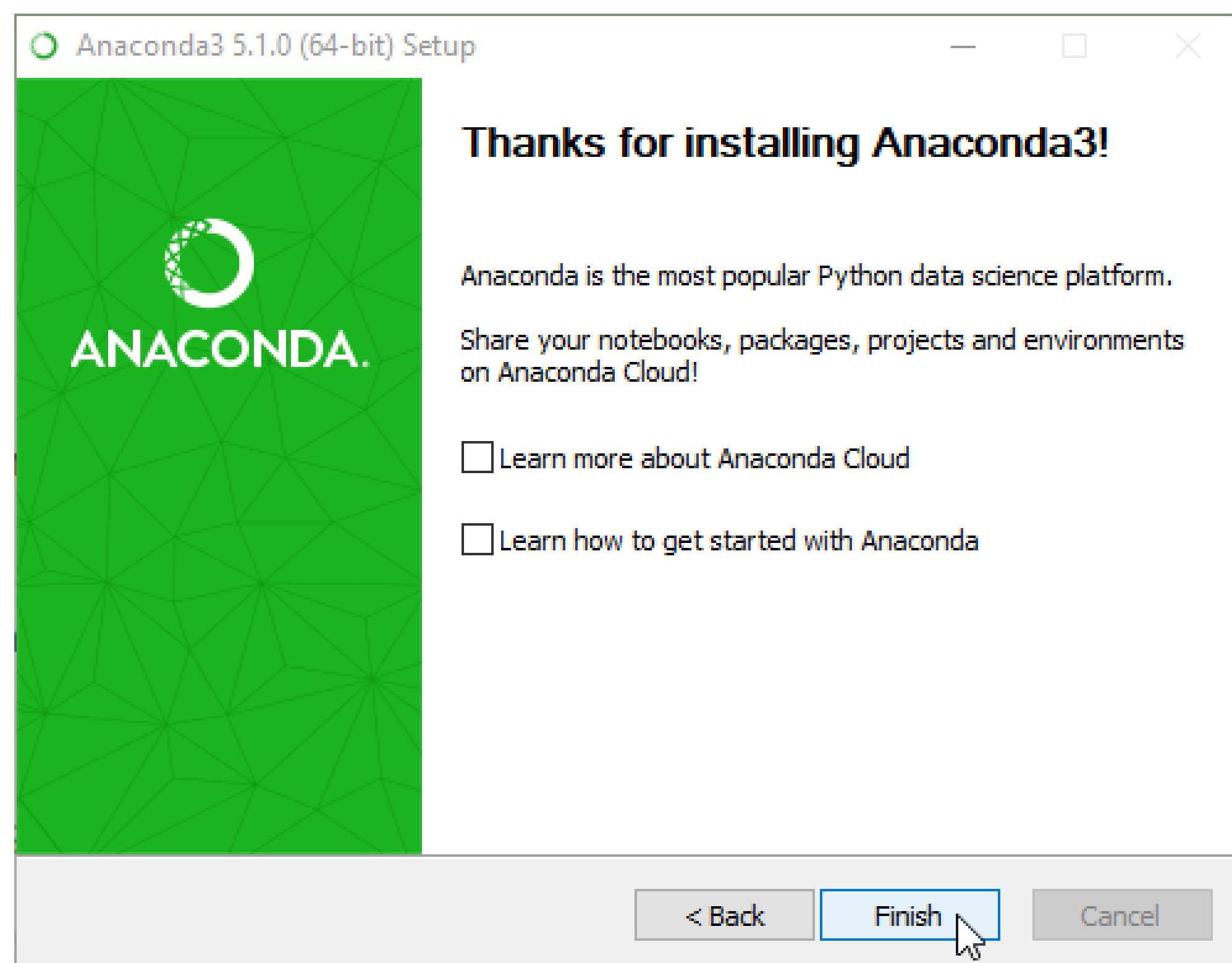
- 选择是否安装VSCode -> 下一步



环境部署

Windows安装Anaconda

- 完成安装



验证是否安装成功:

- 命令行:
 - `python --version`
 - `conda --version`
 - `pip --version`

```
C:\Users\Robin>python --version
Python 3.6.5 :: Anaconda, Inc.

C:\Users\Robin>conda --version
conda 4.5.4

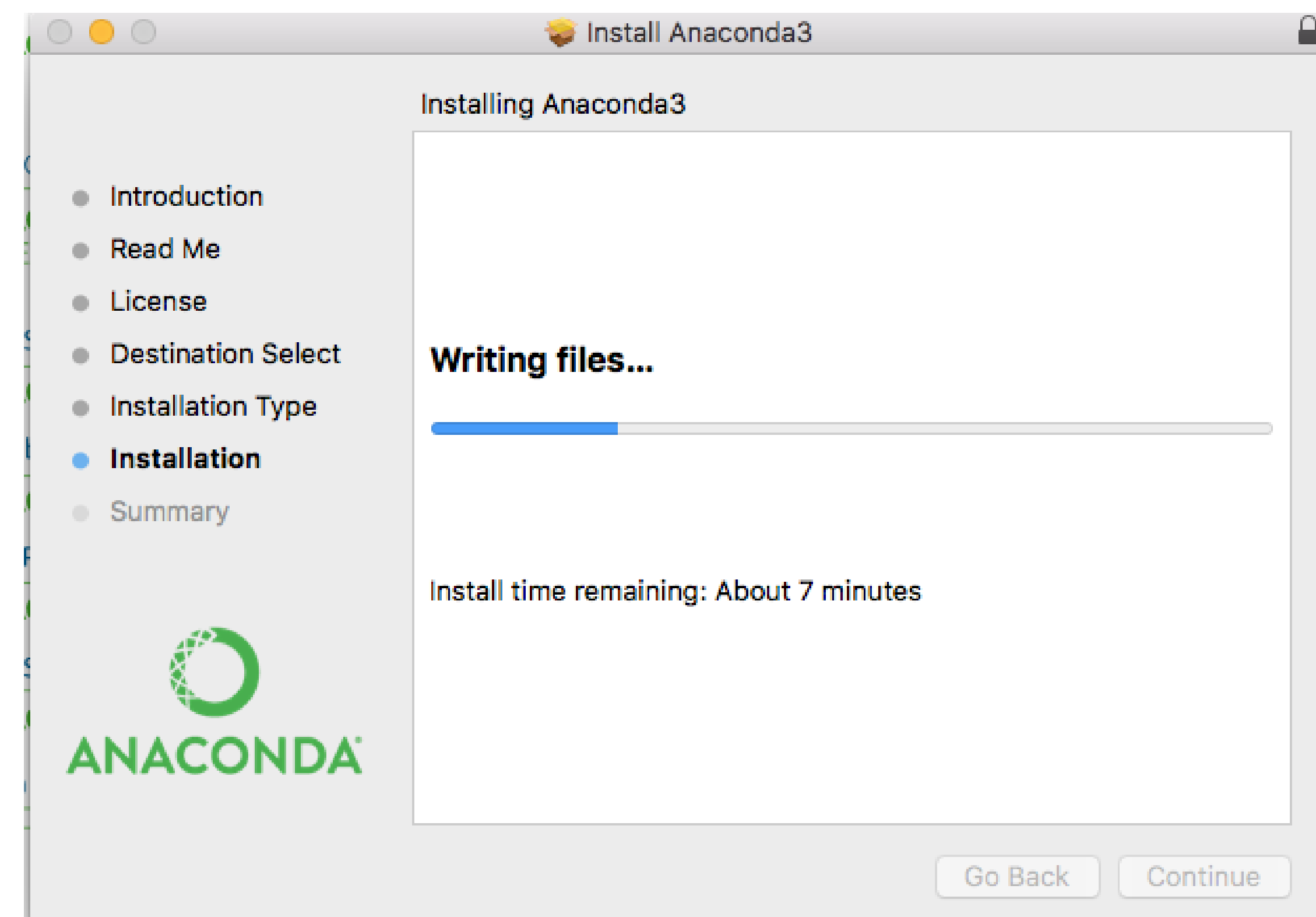
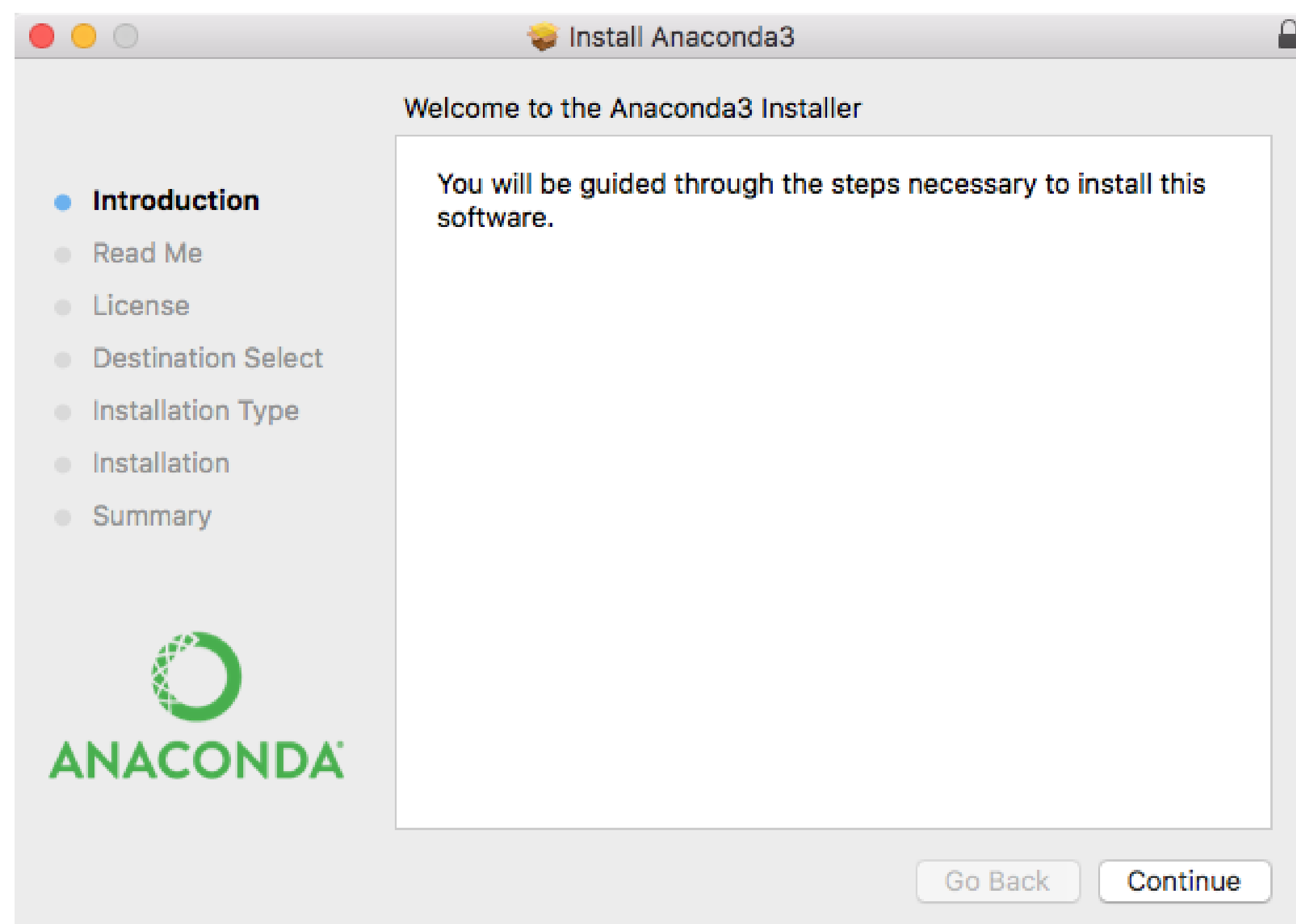
C:\Users\Robin>pip --version
pip 10.0.1 from D:\Anaconda3\lib\site-packages\pip (python 3.6)
```

环境部署

Mac安装Anaconda

- 双击安装，默认路径

Anaconda3-5.1.0-MacOSX-x86_64.pkg	594.7M	2018-02-15 09:09:06
Anaconda3-5.1.0-MacOSX-x86_64.sh	511.3M	2018-02-15 09:10:24



环境部署

Mac安装Anaconda

验证是否安装成功:

- 终端输入:
 - python --version
 - conda --version
 - pip --version

```
robin — -bash — 102x22
Last login: Thu Apr 11 10:26:42 on console
[Robins-MacBook-Pro:~ robin$ python --version
Python 3.7.1
[Robins-MacBook-Pro:~ robin$ conda --version
conda 4.5.12
[Robins-MacBook-Pro:~ robin$ pip --version
pip 18.1 from /Users/robin/anaconda3/lib/python3.7/site-packages/pip (python 3.7)
Robins-MacBook-Pro:~ robin$
```

环境部署

Linux安装Anaconda

Anaconda3-5.1.0-Linux-x86.sh	449.7M	2018-02-15 09:08:58
Anaconda3-5.1.0-Linux-x86_64.sh	551.2M	2018-02-15 09:08:57

切换到下载文件的路径，然后运行命令：**`bash ./Anaconda3-5.1.0-Linux-x86_64.sh`**

```
ganesh@My-PC:~$ ./Anaconda3-5.1.0-Linux-x86_64.sh
Welcome to Anaconda3 5.1.0

In order to continue the installation process, please review the license
agreement.
Please, press ENTER to continue
>>>
=====
Anaconda End User License Agreement
=====

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=====

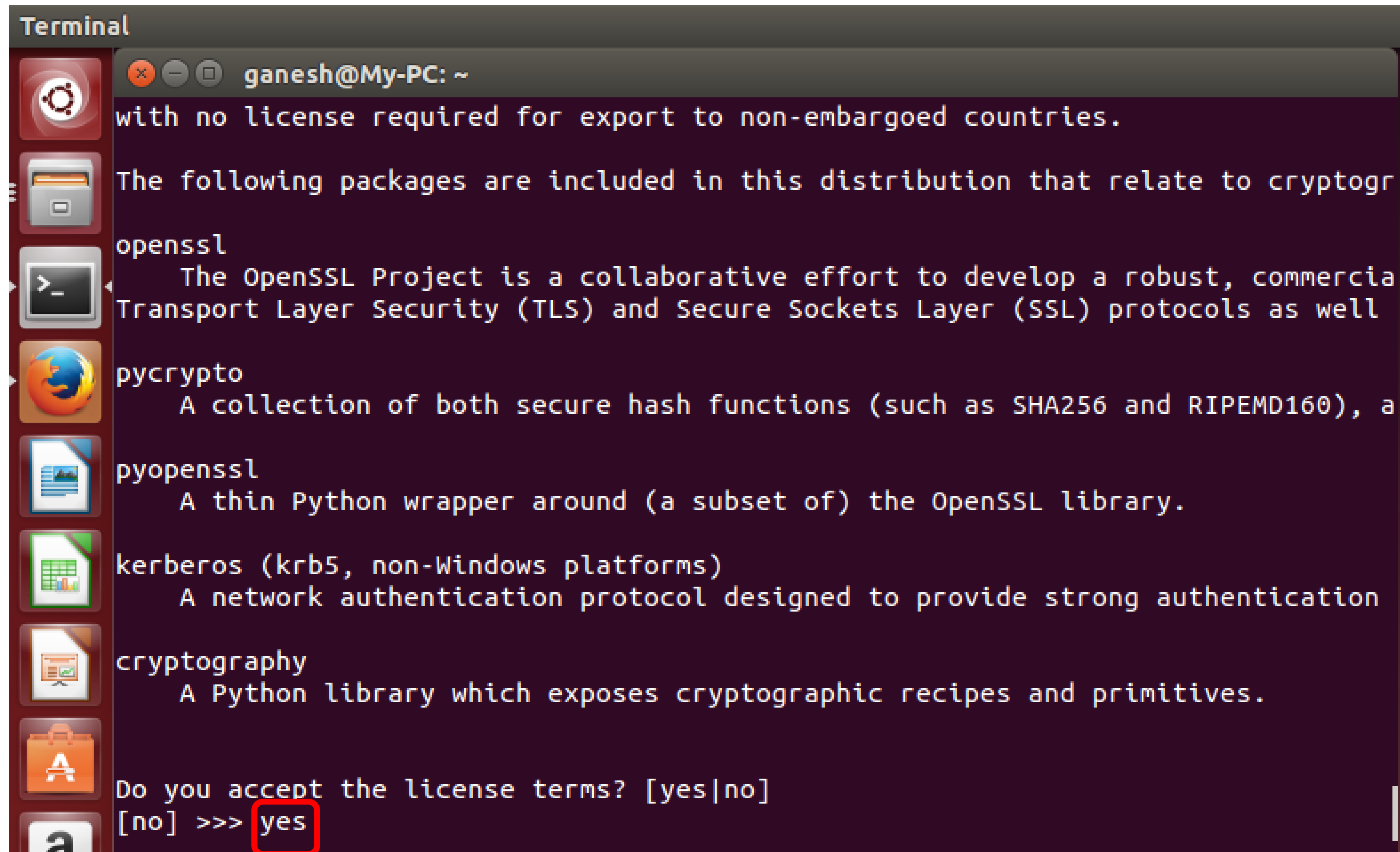
Anaconda Distribution contains open source software packages from third parties. These are available on an "as is" basis and subject to their individual license agreements. These licenses are available in Anaconda Distribution or at http://docs.anaconda.com/anaconda/pkg-docs. Any binary packages of these third party tools you obtain via Anaconda Distribution are subject to their individual licenses as well as the Anaconda license. Anaconda, Inc. reserves the right to change which third party tools are provided in Anaconda Distribution.

In particular, Anaconda Distribution contains re-distributable, run-time, shared-library files from the Intel(TM) Math Kernel Library ("MKL binaries"). You are specifically authorized to use the MKL binaries with your installation of Anaconda Distribution. You are also authorized to redistribute
```

环境部署

Linux安装Anaconda

滚动到协议的最末尾，输入yes同意协议



```
Terminal
ganesh@My-PC: ~
with no license required for export to non-embargoed countries.

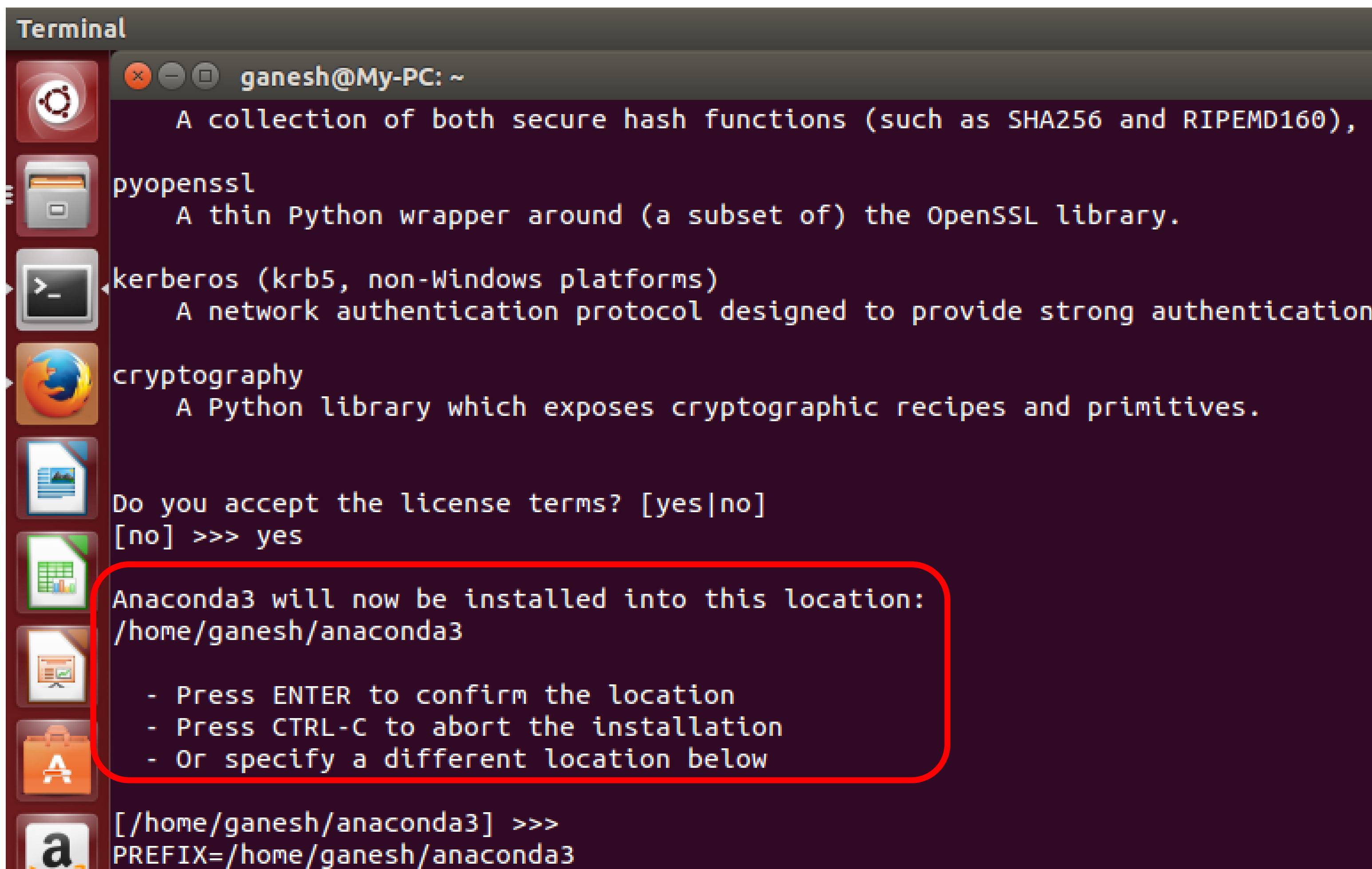
The following packages are included in this distribution that relate to cryptogr
openssl
    The OpenSSL Project is a collaborative effort to develop a robust, commercia
Transport Layer Security (TLS) and Secure Sockets Layer (SSL) protocols as well
pycrypto
    A collection of both secure hash functions (such as SHA256 and RIPEMD160), a
pyopenssl
    A thin Python wrapper around (a subset of) the OpenSSL library.
kerberos (krb5, non-Windows platforms)
    A network authentication protocol designed to provide strong authentication
cryptography
    A Python library which exposes cryptographic recipes and primitives.

Do you accept the license terms? [yes|no]
[no] >>> yes
```


环境部署

Linux安装Anaconda

输入回车，选择默认路径为安装路径



```
Terminal
ganesh@My-PC: ~
A collection of both secure hash functions (such as SHA256 and RIPEMD160),
pyopenssl
A thin Python wrapper around (a subset of) the OpenSSL library.
kerberos (krb5, non-Windows platforms)
A network authentication protocol designed to provide strong authentication
cryptography
A Python library which exposes cryptographic recipes and primitives.
Do you accept the license terms? [yes|no]
[no] >>> yes
Anaconda3 will now be installed into this location:
/home/ganesh/anaconda3
- Press ENTER to confirm the location
- Press CTRL-C to abort the installation
- Or specify a different location below
[/home/ganesh/anaconda3] >>>
PREFIX=/home/ganesh/anaconda3
```


环境部署

Linux安装Anaconda

验证是否安装成功:

- 终端输入:
 - python --version
 - conda --version
 - pip --version

```
robin@robin-VirtualBox: ~  
File Edit View Search Terminal Help  
robin@robin-VirtualBox:~$ python --version  
Python 3.7.1  
robin@robin-VirtualBox:~$ conda --version  
conda 4.5.12  
robin@robin-VirtualBox:~$ pip --version  
pip 18.1 from /home/robin/anaconda3/lib/python3.7/site-packages/pip (python 3.7)  
robin@robin-VirtualBox:~$
```

环境部署

管理Python包

- 安装: conda install xxx, pip install xxx
- 卸载: conda uninstall xxx, pip uninstall xxx
- 升级: conda update xxx, pip install --upgrade xxx

只为遇见明天更优秀的你！