Windows 部署Python节点

本章简要介绍如何在Windows环境上单独部署Python节点。

Python节点主要用于机器学习的DBSACN算法和自定义模块的Python脚本扩展。如果没有用到这两个功能模块,可以不用部署Python节点。



Windows 部署python节点目前支持Smartbi V10版本。

一、安装前准备

1、先确认本机有没有安装Anaconda其他版本或Python的运行环境,如果有则要先将其卸载。

cmdpython
python --version



2、安装介质: (向Smartbi官方获取或自行去Anaconda3官网获取对应的版本)

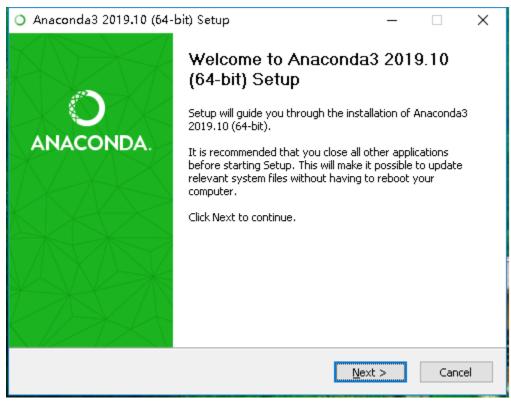
Anaconda3-2019. 10-Windows-x86_64. exe

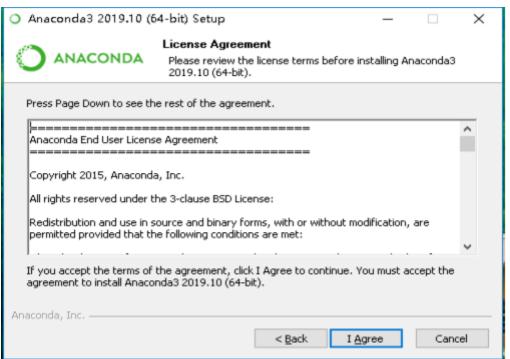
plugin_win.zip

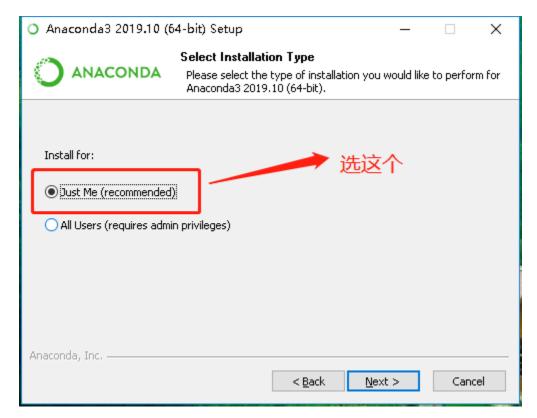
二、安装python计算节点

1、进入安装界面

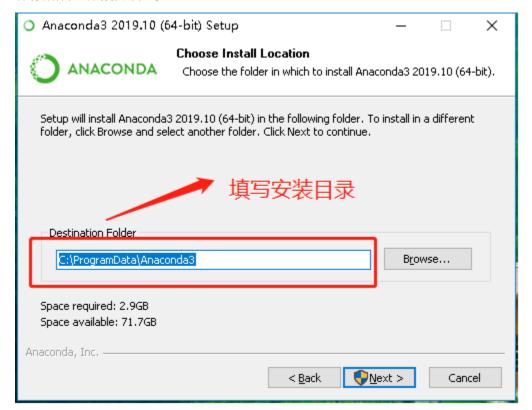
点击 Anaconda3-2019.10-Windows-x86_64.exe 安装包开始安装



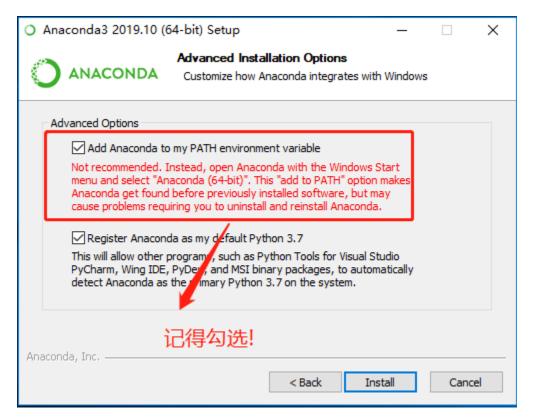




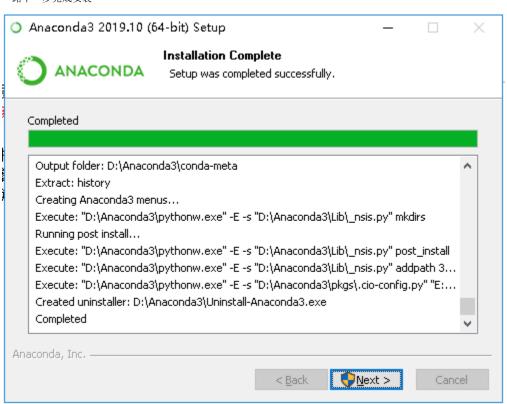
填写安装目录,填写完点击下一步

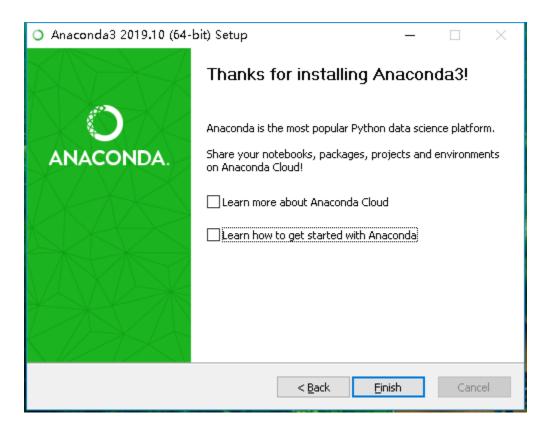


环境变量设置,记得勾选!



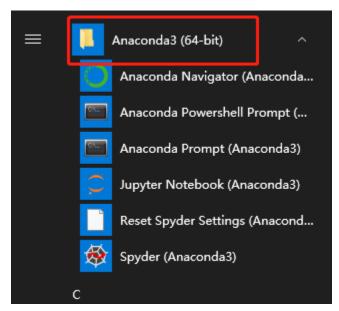
一路下一步完成安装





2、验证是否安装成功

查看系统开始菜单栏下面是否有这个目录

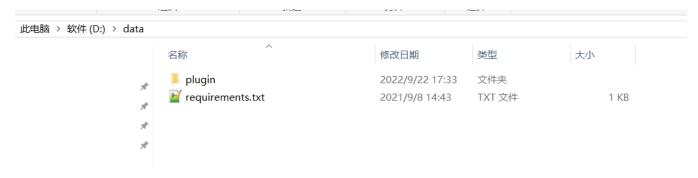


在cmd命令行运行"python —version"得到版本信息

C:\Users\Administrator>python --version Python 3.7.4

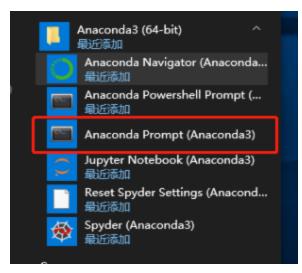
三、安装插件

1、解压插件包到D盘data目录

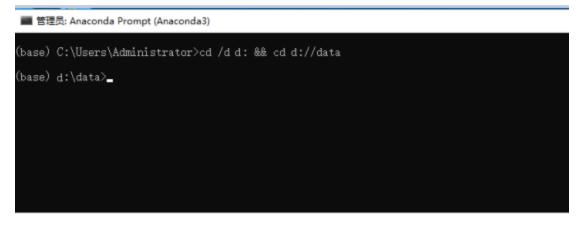


2、批量离线安装所需插件包

(1) 点击 "Anaconda Prompt (Anaconda3) " 进入命令行界面



(2) 切换目录 cd /d d://data



(3) 更新pip版本

```
(base) d:\data>python ./plugin/pip-20.0.2-py2.py3-none-any.wh1/pip install --upgrade ./plugin/pip-20.0.2-py2.py3-none-any.wh1

Looking in indexes: https://pypi.tuma.tsinghua.edu.cn/simple

Processing .\plugin\pip-20.0.2-py2.py3-none-any.wh1

Installing collected packages: pip

Attempting uninstall: pip

Found existing installation: pip 19.2.3

Uninstalling pip-19.2.3:

Successfully uninstalled pip-19.2.3

Successfully installed pip-20.0.2
```

(4) 批量安装

pip install --no-index --find-links=./plugin/ -r requirements.txt

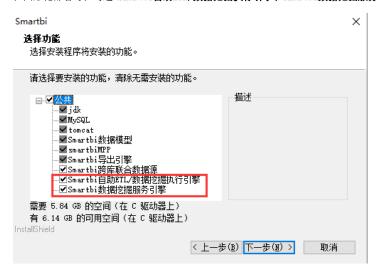
(5) 验证是否安装成功

conda list

```
■ 管理局: Anaconda Prompt (Anaconda3)
                                                                                                                                                                                           П
 base) d:\data>conda list
packages in environment at C:\Anaconda3;
                                        0. 1. 0
0. 7. 12
2019. 10
1. 7. 2
1. 9. 7
 pyw_jlab_nb_ext_conf
labaster
naconda-client
 naconda-navigator
naconda-project
snlcrypto
stropy
tomicwrites
                                                                      py37he7
ttrs
abel
ackcall
ackports
 ackports.functools_lru_cache 1.5
ackports.os 0.1.1
ackports.shutil_get_terminal_size 1.0.0
ackports.tempfile 1.0
ackports.weakref 1.0.post1
sautifulsoup4 4,8.0
 charts
```

四、部署挖掘引擎

在图形化部署时在勾选 Smartbi自助ETL/数据挖掘执行引擎和Smartbi数据挖掘服务引擎

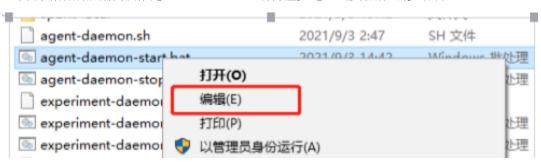


若在此处无勾选,则可参考: Windows 部署挖掘引擎 进行部署。

五、启动python代理器

启动Anaconda之前要保证挖掘引擎已经完成启动。

1、以文本编辑打开启动脚本文件(agent-daemon-start.bat)并设置JAVA_HOME(修改成自己的jdk目录)



```
■ agent-daemon-start.bat - 记事本
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

set JAVA_HOME= C:\Smartbi\jdk
set PATH=%JAVA_HOME%\bin;%PATH%
java -version
java -Dfile.encoding=UTF8 -Dsun.jnu.encoding=UTF8 -Xmx1g -Xms1g -cp
```

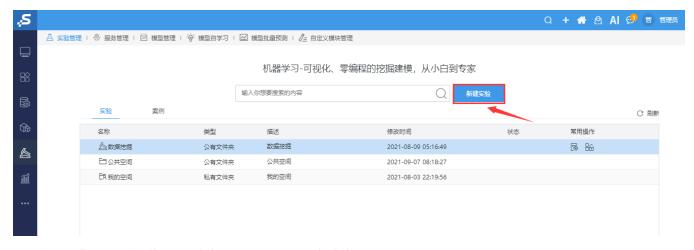
2、cmd命令行下运行启动脚本 agent-daemon-start.bat

```
C:\Smartbi\SmartbiEngine\engine\sbin>agent-daemon-start.bat
C:\Smartbi\SmartbiEngine\engine\sbin>set JAVA_HOME=C:\Smartbi\jdk
C:\Smartbi\SmartbiEngine\engine\sbin>set JAVA_HOME=C:\Smartbi\jdk
C:\Smartbi\SmartbiEngine\engine\sbin>set PATH=C:\Smartbi\jdk\bin;C:\Windows\system32;C:\Windows\C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System32;C:\Windows\System3
```

```
Ex THEST CAWardows/system32/smudese - agent-daemon-startbat — — — X
3a:1388
2021-09-03 16:09:20.696 [50] INFO scheduler. DA6Scheduler. logInfo:57 - Submitting 1 missing tasks from ResultStage 1 (Map PartitionsND0[5] at count at SparkSQLExample, java:79) (first 15 tasks are for partitions Vector(0))
2021-09-03 16:09:20.696 [23] INFO scheduler. TaskScheduler. logInfo:57 - Adding task set 1.0 with 1 tasks resource pro file
2021-09-03 16:09:20.696 [23] INFO scheduler. TaskScheduler. logInfo:57 - Starting task set 1.0 with 1 tasks resource pro file
2021-09-03 16:09:20.696 [23] INFO scheduler. TaskScheduler. logInfo:57 - Starting task 0.0 in stage 1.0 (TID 1) (DESKTOP-5D)RILL. executor driver, partition 0, NOOB_LOCAL, 4652 bytes) taskResourceAssignments Map()
2021-09-03 16:09:20.908 [60] INFO scheduler. logInfo:57 - Running task 0.0 in stage 1.0 (TID 1)
2021-09-03 16:09:20.908 [60] INFO scheduler. logInfo:57 - Running task 0.0 in stage 1.0 (TID 1)
2021-09-03 16:09:20.908 [60] INFO scheduler. logInfo:57 - Running task 0.0 in stage 1.0 (TID 1)
2021-09-03 16:09:20.908 [60] INFO scheduler. logInfo:57 - Finished task 0.0 in stage 1.0 (TID 1). 2691 bytes result sent to driver
2021-09-03 16:09:20.968 [62] INFO scheduler. logInfo:57 - Finished task 0.0 in stage 1.0 (TID 1) in 280 ms on DESKTOP-5D[RILL (executor driver) (1/1)
2021-09-03 16:09:20.972 [50] INFO scheduler. logInfo:57 - Finished task 0.0 in stage 1.0 (TID 1) in 280 ms on DESKTOP-5D[RILL (executor driver) (1/1)
2021-09-03 16:09:20.972 [50] INFO scheduler. DA6Scheduler. logInfo:57 - Job 0 is finished. Cancelling potential speculative or zonbie tasks for this job
2021-09-03 16:09:20.095 [60] INFO scheduler. DA6Scheduler. logInfo:57 - Job 0 in finished. Cancelling potential speculative or zonbie tasks for this job
2021-09-03 16:09:21.006 [50] INFO scheduler. DA6Scheduler. logInfo:57 - Job 0 finished: count at SparkSQLExample. java:79, took 1.09 (20.09 (20.09 (20.09 (20.09 (20.09 (20.09 (20.09 (20.09 (20.09 (20.09 (20.09 (20.09 (20.09 (20.09 (20.09 (20.09 (20.09 (20.0
```

六、测试python节点

1、打开数据挖掘-新建实验



2、拖拽"示例数据源",选择数据源 - 保存 - 运行 - 运行成功-保存



3、拖拽PYTHON脚本,与示例数据源连线,点击运行,如果显示运行成功则表示Python计算节点正常

