

Welcome to First Session of  
Python for Machine Learning Course

---

Agenda: Getting Started / Installation



---

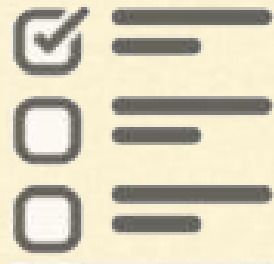
# About CloudxLab

---

Making learning fun and for life



Videos



Quizzes



Hands-On



Projects



Case Studies



Real Life Use Cases



---

# Automated Hands-on Assessments

---



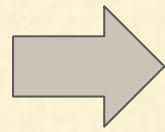
Learn by doing



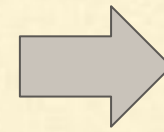
# Automated Hands-on Assessments



Problem Statement



Hands On



Assessment





# Automated Hands-on Assessments

Last Attempt Result: 

3 / 87

Last Attempt: 1 week, 2 days ago

## Getting Started With Linux Console

Please follow these steps:

1. Log into your CloudxLab Account: [Open CloudxLab](#)
2. Select the "**Credentials**" tab. You should see your login and passwords. You can copy the login and password using the icons.
3. Click on "**Web Console**" (Alternatively you could use SSH or [Putty](#))
4. Enter your login and password. You can copy-paste from "**My Lab**"
5. If you are successfully logged in, please click on "I am Done! Please Check" button below.



Problem Statement

I am Done! Please Check

Evaluation



Edit


Jump to page

Previous

Next




# Automated Hands-on Assessments



CLOUD x LAB

KnowBigData - Hadoop-Spark With Python (Live Recordings)


**Last Attempt Result:**  19 / 19


**Last Attempt:** a minute ago

Testing Python

Define x as 10


[I am Done! Please Check](#)




 x is not defined and assigned properly


[Edit](#) [Jump to page](#) [Previous](#)













[Python Assessment](#)



jupyter Untitled25

 [Control Panel](#) [Logout](#)

Menu Trusted | Python 3 

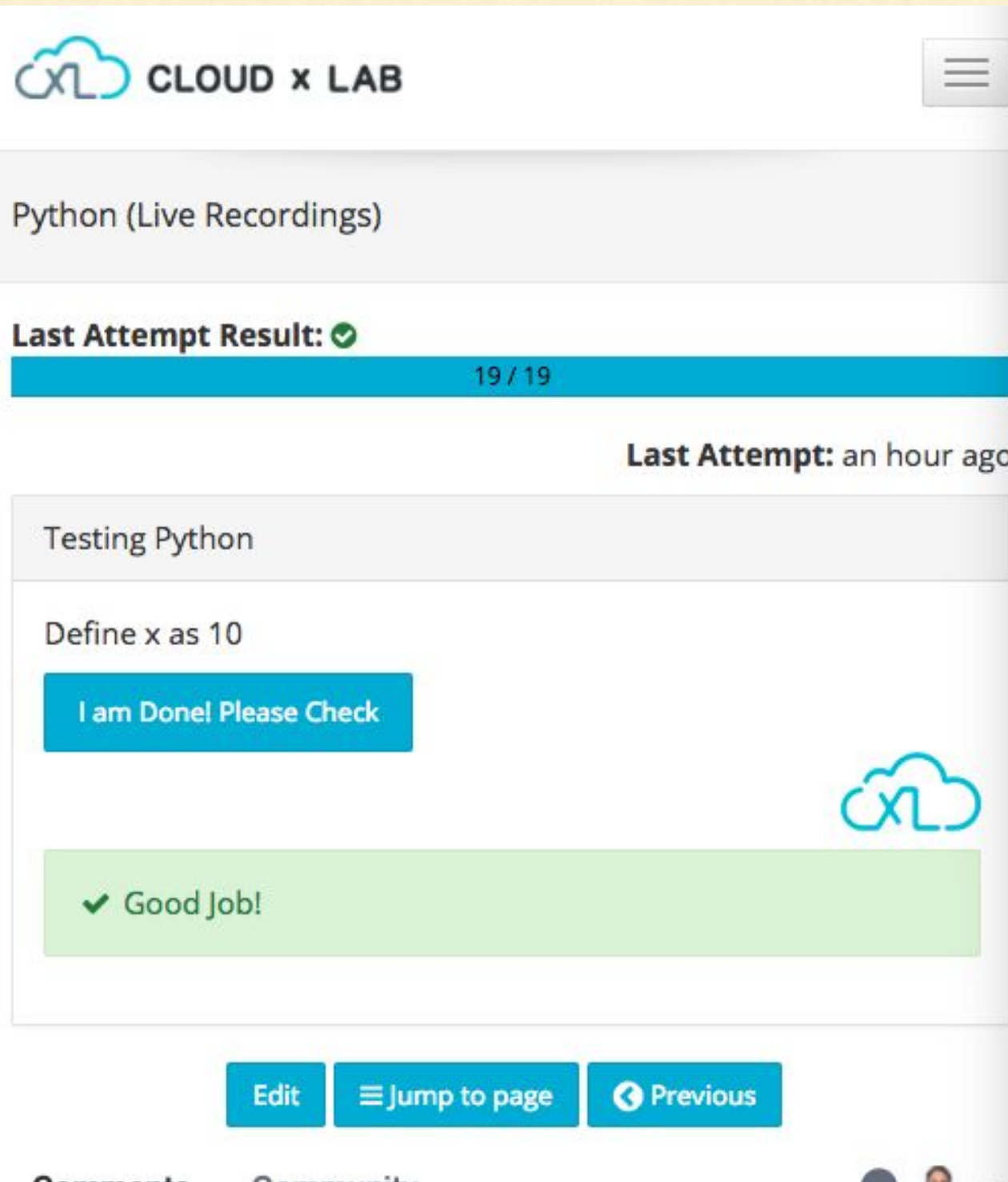
          Code  

```
In [ ]:
```

[Jupyter Notebook](#)

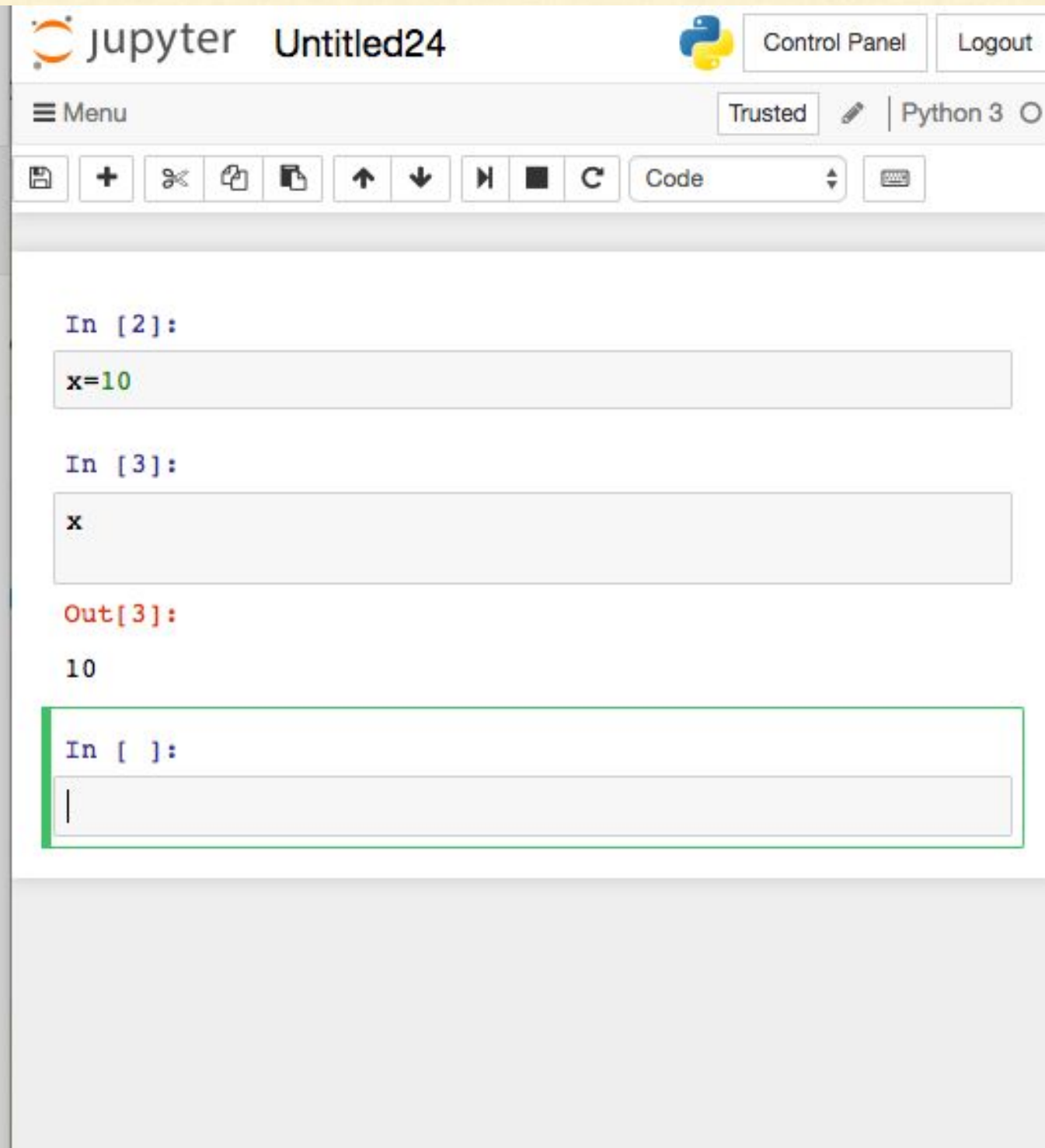


# Automated Hands-on Assessments



The screenshot shows the 'CLOUD x LAB' interface for a 'Python (Live Recordings)' assessment. It displays the 'Last Attempt Result' as a green checkmark and '19 / 19'. Below this, it says 'Last Attempt: an hour ago'. The assessment title is 'Testing Python', and the instruction is 'Define x as 10'. A blue button labeled 'I am Done! Please Check' is visible. A green feedback box at the bottom says '✓ Good Job!'. At the bottom of the interface are buttons for 'Edit', 'Jump to page', and 'Previous'.

[Python Assessment](#)



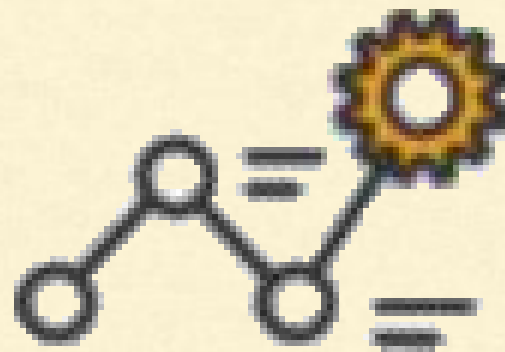
The screenshot shows a Jupyter Notebook titled 'Untitled24'. The top bar includes the 'jupyter' logo, a 'Control Panel' button, and a 'Logout' button. The notebook interface shows two input cells. The first cell contains the code 'x=10' and is followed by an output cell showing 'Out[3]: 10'. The second cell is empty and is highlighted with a green border. The notebook has a 'Menu' bar with various icons for file operations and execution.

[Jupyter Notebook](#)





# Course Objective



**Learning Python**  
*For*  
**Machine Learning**  
&  
**Deep Learning**





# Course Instructor

Founder



**CLOUD x LAB**



Sandeep Giri

Loves Explaining Technologies

Software Engineer

**amazon**

**inmobi**

**DE Shaw & Co**

Worked On Large Scale Computing

Graduated from IIT Roorkee



---

# Getting To Our first Code

---

2+3



---

# Installation Python

---

➡ Using CloudxLab ([Blog](#))

or

Installation on your own machine



# Using Python - On CloudxLab (Using Jupyter)

## Lab Details

**Subscription Status:** Active  
**Subscription End Date:** March 27, 2019  
[Extend Now](#) | [Get 15 days of lab access for free](#)

Learn

Lab Credentials

MySQL Credentials

IP Mappings

Support

Login: abhinav9884

Password: \*\*\*\*\*

Ambari

Hue

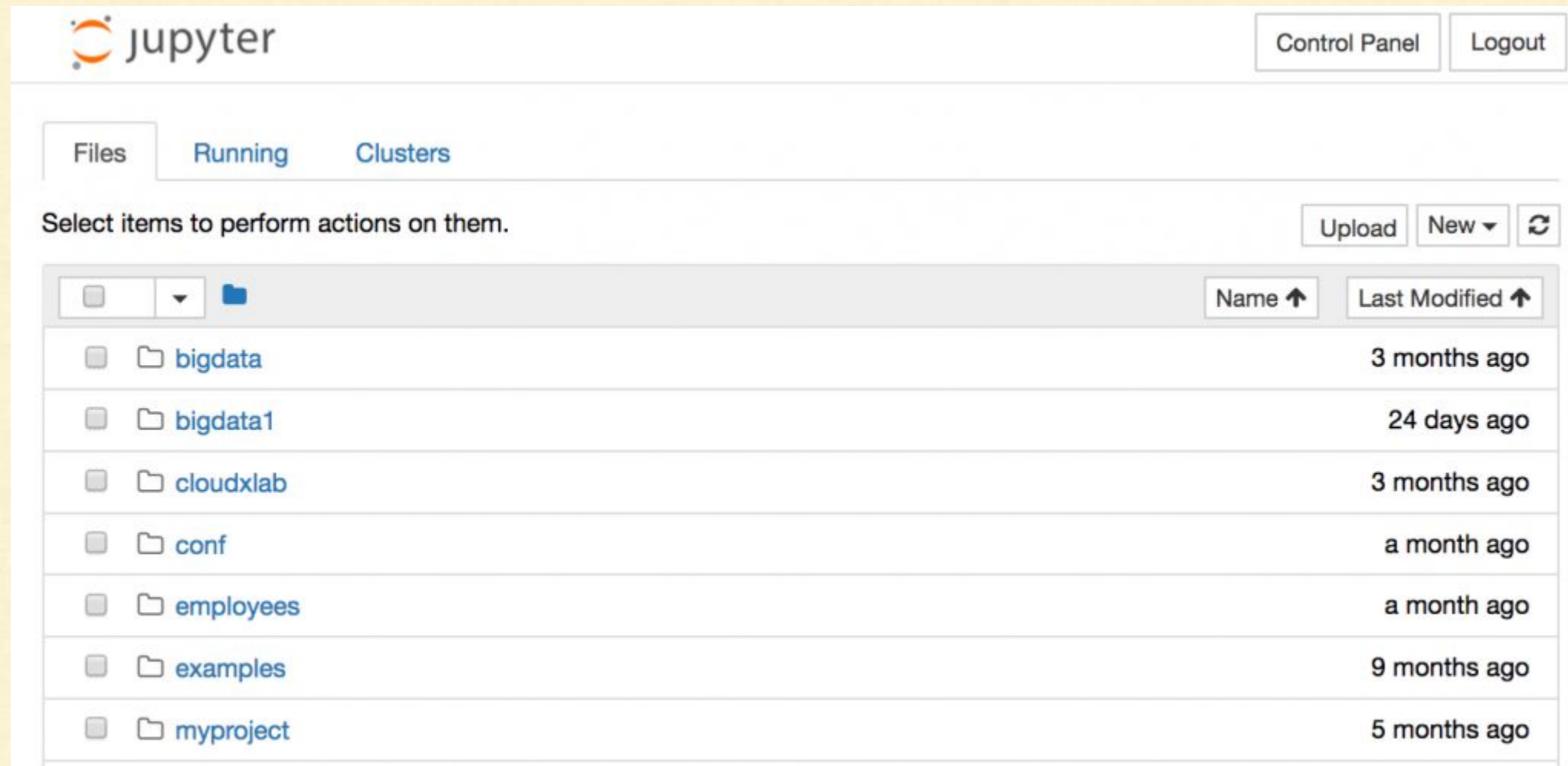
Web Console

Jupyter





# Using Python - On CloudxLab (Using Jupyter)

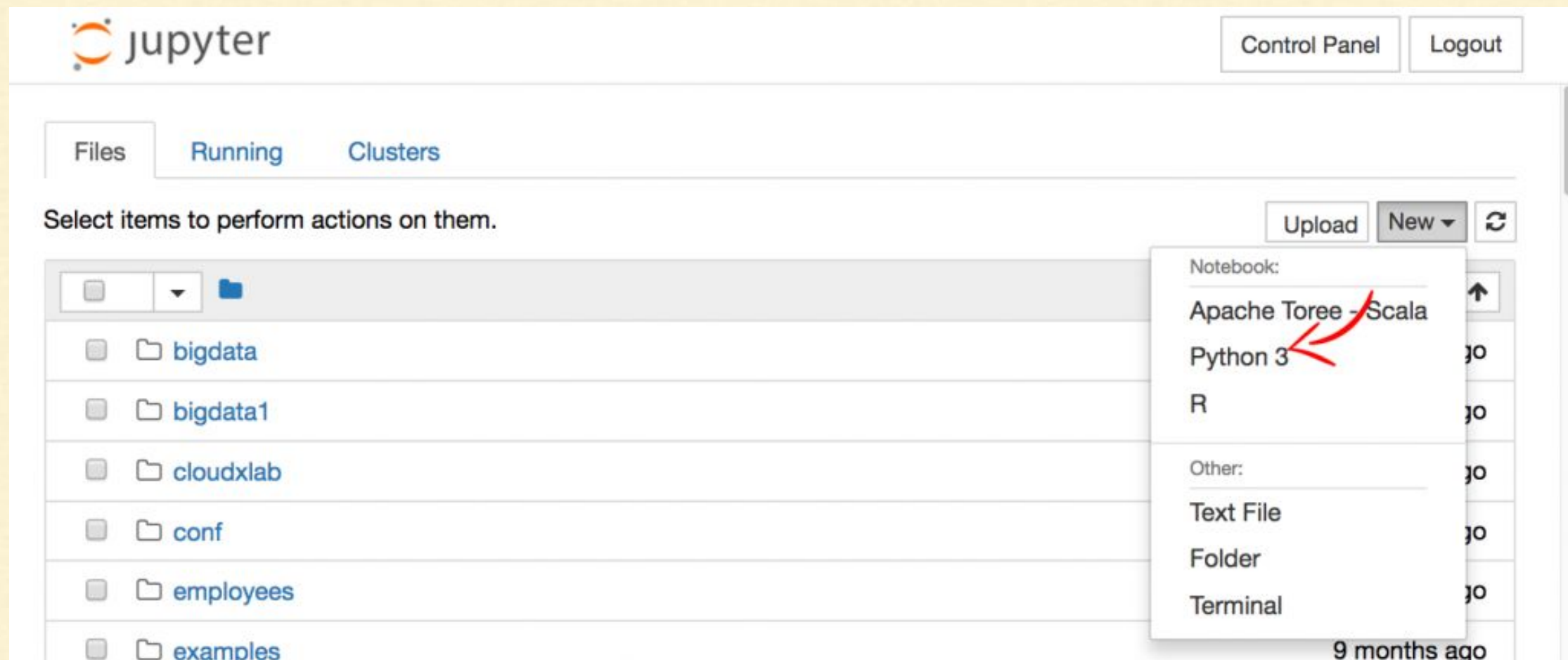


The screenshot displays the JupyterLab web interface. At the top, the 'jupyter' logo is on the left, and 'Control Panel' and 'Logout' buttons are on the right. Below the logo, there are three tabs: 'Files' (active), 'Running', and 'Clusters'. A message 'Select items to perform actions on them.' is shown above a table of files. To the right of this message are buttons for 'Upload', 'New' (with a dropdown arrow), and a refresh icon. The table lists several folders with checkboxes, names, and last modified times. The folders are: 'bigdata' (3 months ago), 'bigdata1' (24 days ago), 'cloudxlab' (3 months ago), 'conf' (a month ago), 'employees' (a month ago), 'examples' (9 months ago), and 'myproject' (5 months ago). The table has columns for 'Name' and 'Last Modified', both with upward arrows indicating sorting options.

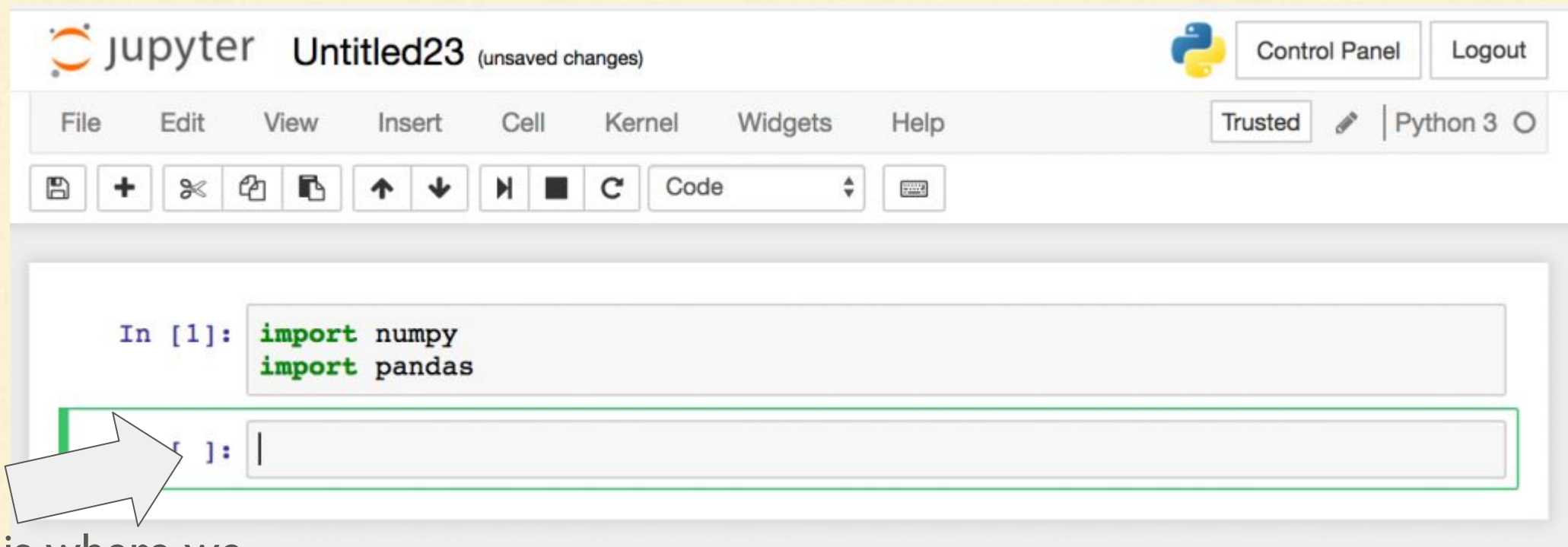
	Name ↑	Last Modified ↑
<input type="checkbox"/>	bigdata	3 months ago
<input type="checkbox"/>	bigdata1	24 days ago
<input type="checkbox"/>	cloudxlab	3 months ago
<input type="checkbox"/>	conf	a month ago
<input type="checkbox"/>	employees	a month ago
<input type="checkbox"/>	examples	9 months ago
<input type="checkbox"/>	myproject	5 months ago



# Using Python - On CloudxLab (Using Jupyter)



# Using Python - On CloudxLab (Using Jupyter)



This is where we write code.

**Press SHIFT + ENTER to execute.**



# Using Python - On CloudxLab (Console)

## Lab Details

**Subscription Status:** Active

**Subscription End Date:** Oct. 1, 2019

[Extend Now](#) | [Get 15 days of lab access for free](#)

Learn

Lab Credentials

MySQL Credentials

IP Mappings

Support

**Login:** sandeepgiri9034 

**Password:** \*\*\*\*\*  

Ambari

Hue

Web Console

Jupyter

```
export PATH=/usr/local/anaconda/bin:$PATH
source activate py36
python3
```





---

# Installation Python

---

Using CloudxLab ([Blog](#))

or

➡ Installation on your own machine



---

# Installation on your own machine (Windows)

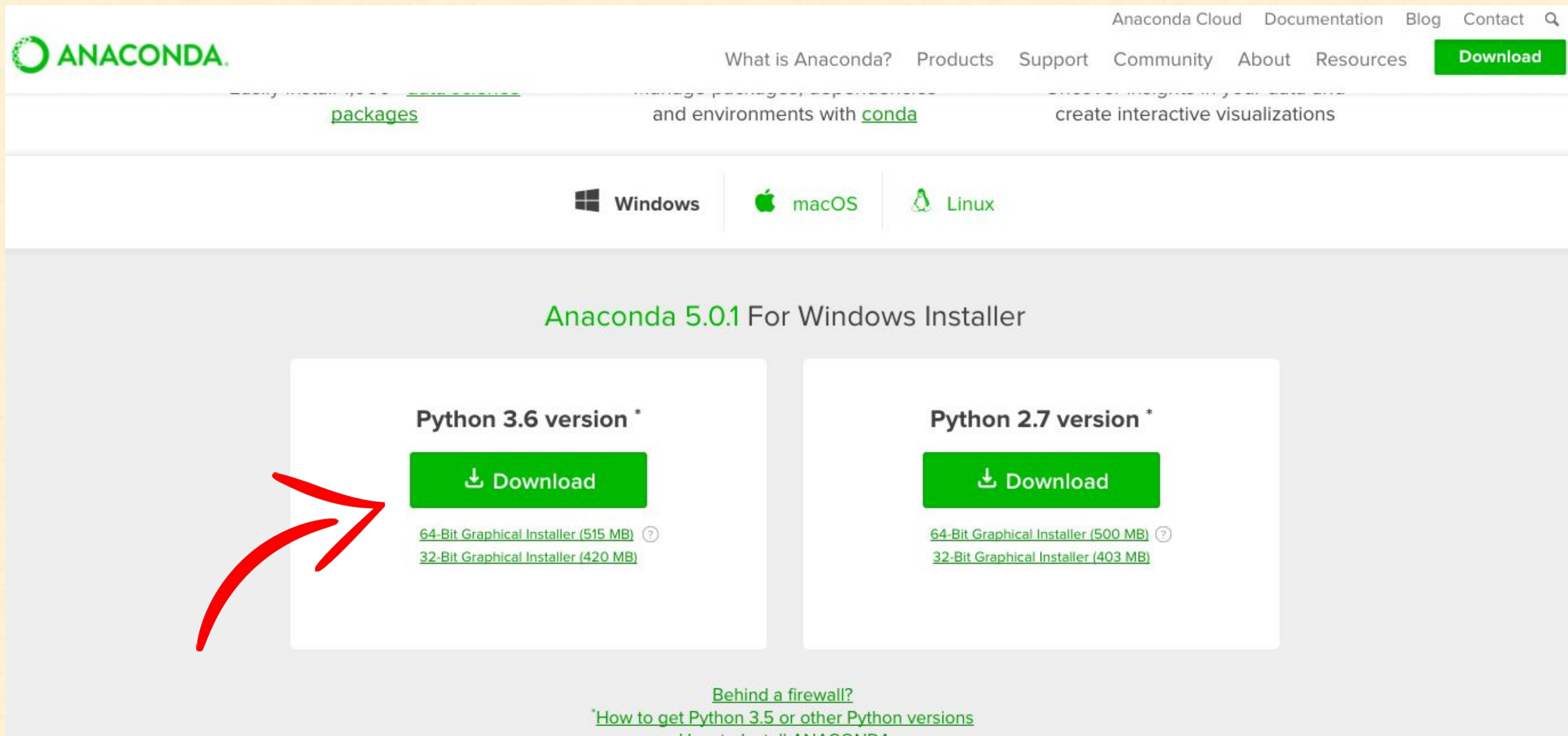
---

1. Download Anaconda
2. Install Anaconda
3. Open Anaconda Navigator
4. Click on Jupyter Icon



# Installation on your own machine (Windows)

## Download Anaconda



The screenshot shows the Anaconda website's download page for Windows. The header includes the Anaconda logo, navigation links (What is Anaconda?, Products, Support, Community, About, Resources), and a 'Download' button. Below the header, there are links for 'packages', 'and environments with conda', and 'create interactive visualizations'. The main content area features three operating system options: Windows, macOS, and Linux. Under the 'Windows' section, the title 'Anaconda 5.0.1 For Windows Installer' is displayed. Two download options are presented: 'Python 3.6 version \*' and 'Python 2.7 version \*'. Each option has a green 'Download' button. Below the buttons, links for '64-Bit Graphical Installer' and '32-Bit Graphical Installer' are provided for both versions. A red arrow points to the 'Download' button for the Python 3.6 version. At the bottom, there are links for 'Behind a firewall?' and '\*How to get Python 3.5 or other Python versions'.

ANACONDA

Anaconda Cloud Documentation Blog Contact

What is Anaconda? Products Support Community About Resources **Download**

[packages](#) and environments with [conda](#) create interactive visualizations

Windows macOS Linux

Anaconda 5.0.1 For Windows Installer

**Python 3.6 version \***

**Download**

[64-Bit Graphical Installer \(515 MB\)](#) [?](#)  
[32-Bit Graphical Installer \(420 MB\)](#)

**Python 2.7 version \***

**Download**

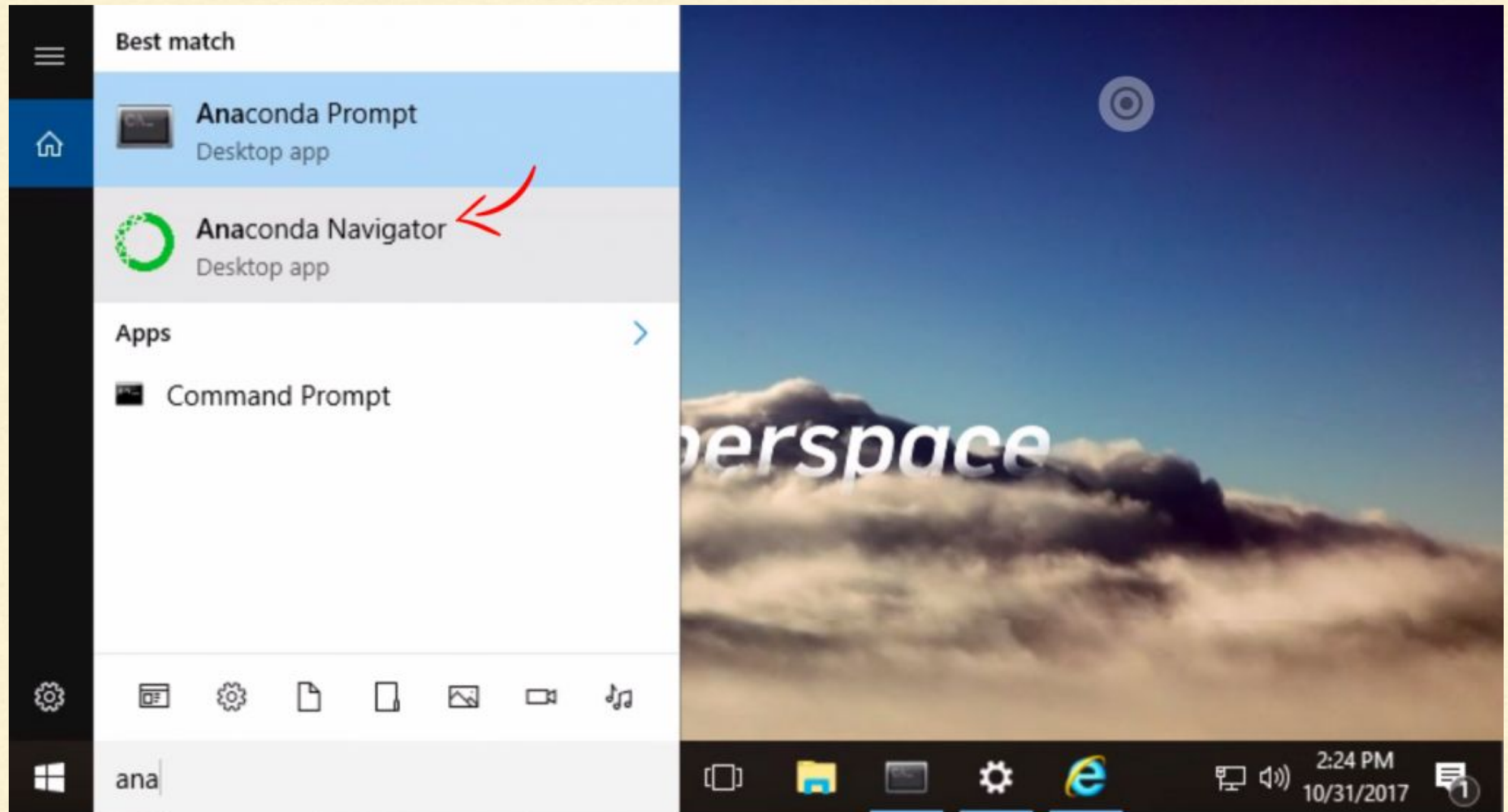
[64-Bit Graphical Installer \(500 MB\)](#) [?](#)  
[32-Bit Graphical Installer \(403 MB\)](#)

[Behind a firewall?](#)  
[\\*How to get Python 3.5 or other Python versions](#)



# Installation on your own machine (Windows)

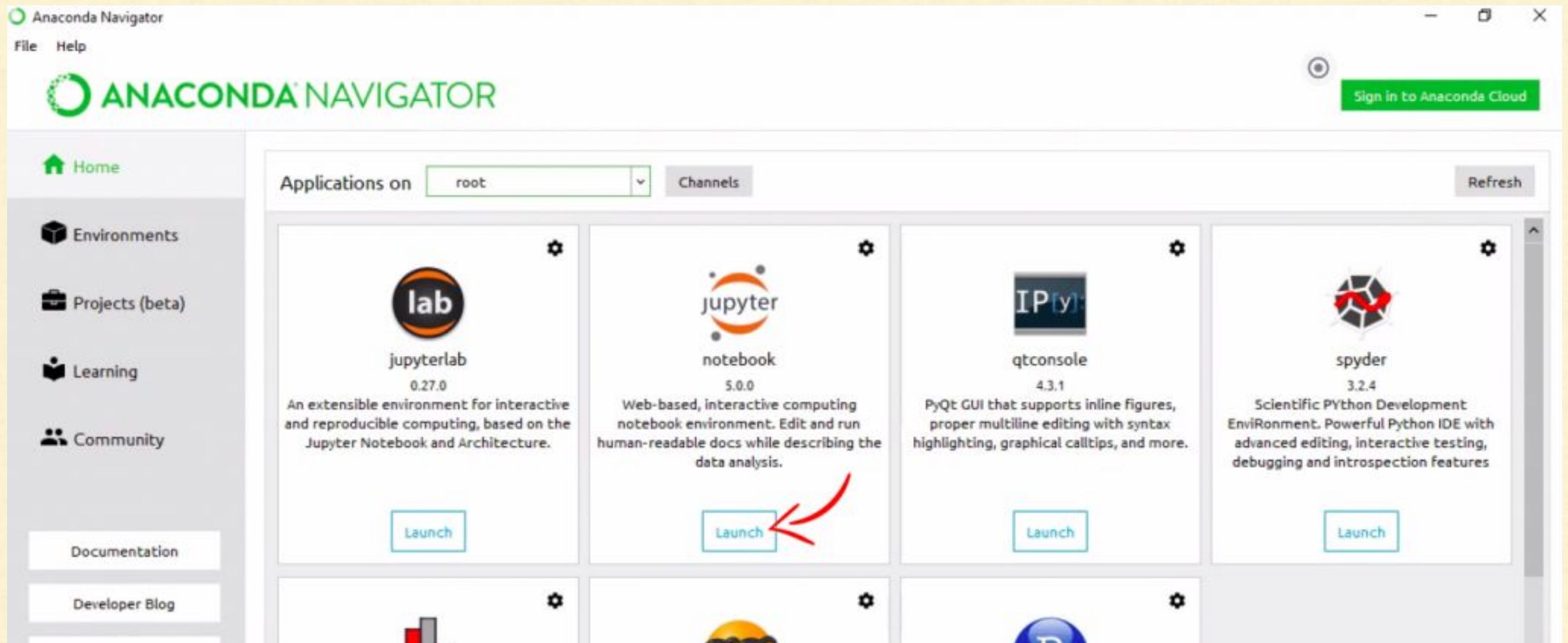
After installation, Launch





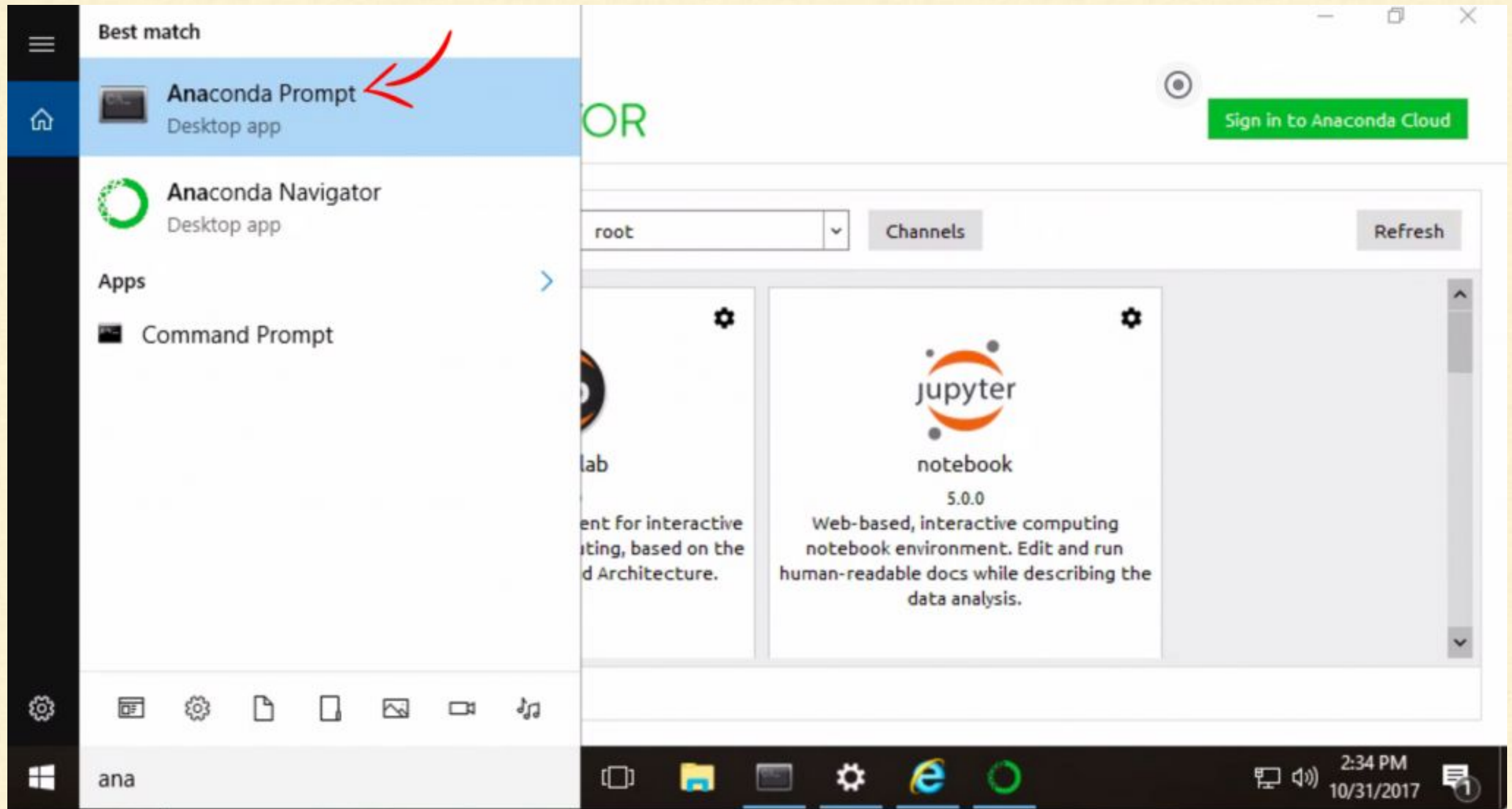
# Installation on your own machine (Windows)

## Open Jupyter




# Installation on your own machine (Windows)

## Interactive Way of Using Python



# Access Course

 **CLOUD x LAB**

New Events Courses Lab My Lab Discussions Blog abhinav9884 ▼

[Register here](#) for free course on Python for Machine Learning

My Lab


My Courses

Refer Friends

Sign Out


## Specialization Courses

🎓 Big Data with Hadoop and Spark



[Go To My Courses »](#) [View Details »](#)

🎓 Machine Learning Specialization



[Go To My Courses »](#) [View Details »](#)



# Questions?

---

<https://discuss.cloudxlab.com>

[reachus@cloudxlab.com](mailto:reachus@cloudxlab.com)





# Course Developer

CoFounder



**CLOUD x LAB**

Customer Obsessed


Love Learning New Technologies

Product Manager



Abhinav Singh



hashcube 

Developed India's #1 Learning App at Byjus

