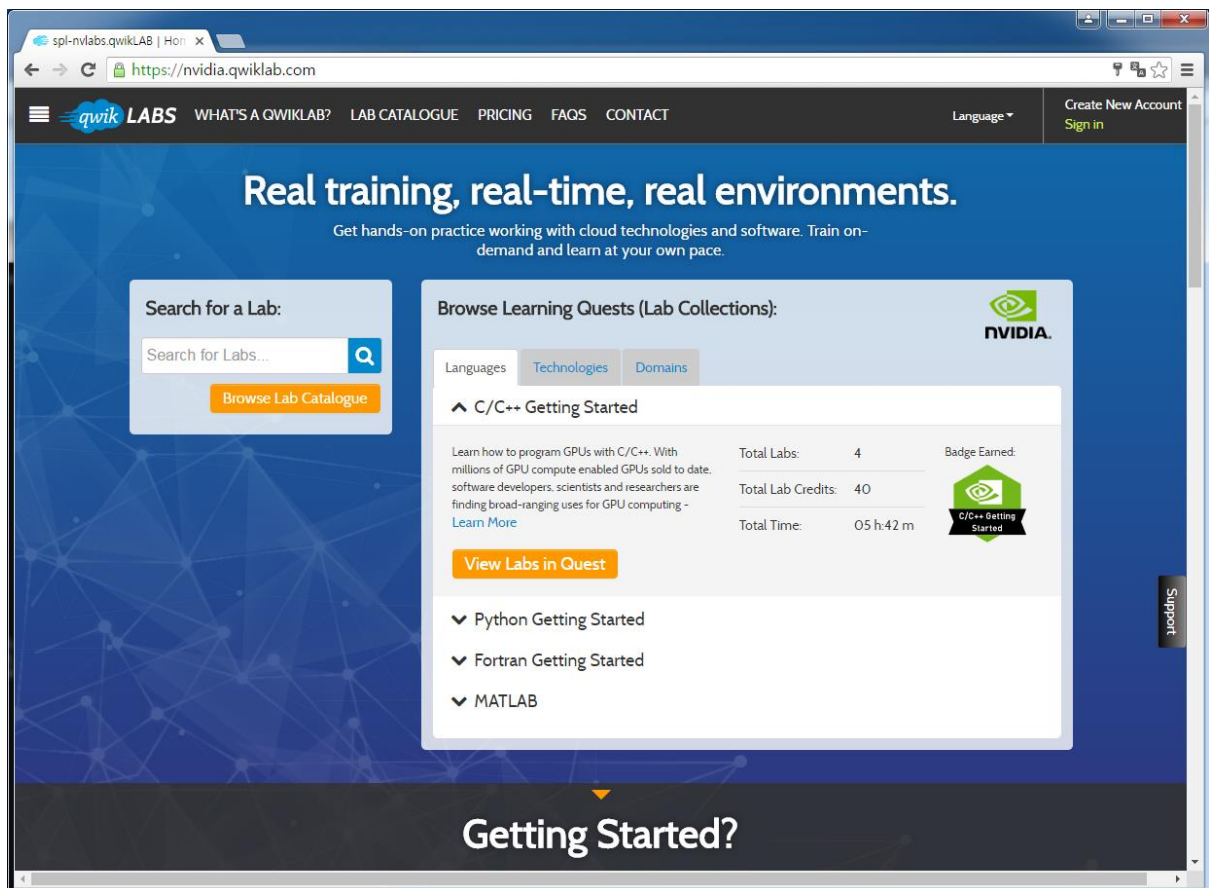


Deep Learning Institute 사전 준비 사항

(부록 : QWIKLAB 사용법 안내)

Step1. 사이트 접속

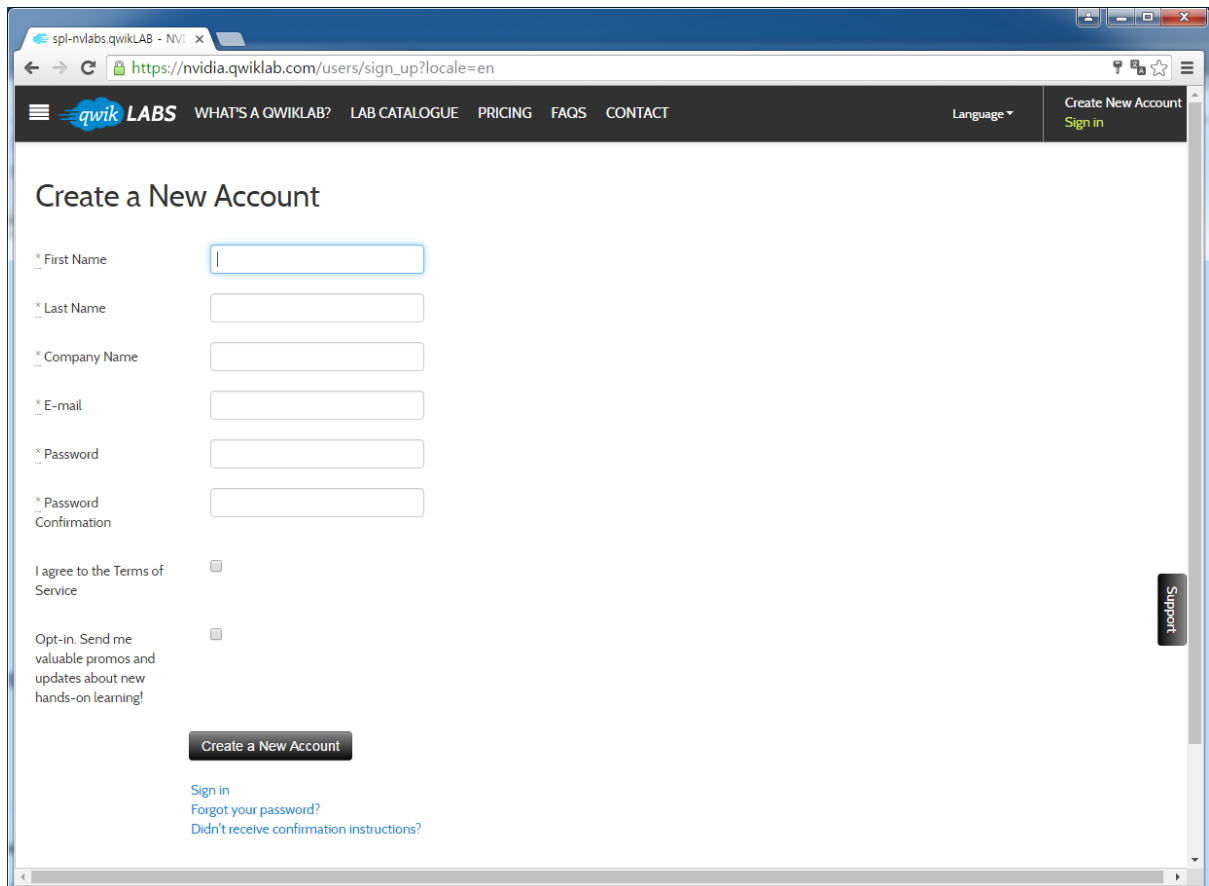
<http://nvidia.qwiklab.com>



Step2. 이상단 회원 가입(Create New Account) 버튼 클릭

입력사항: 이름(First Name), 성(Last Name), 소속 (Company Name), E-mail, Password 입력합니다.

(로그인시 사용되는 ID는 E-mail 주소임)



The screenshot shows a web browser window with the URL https://nvidia.qwiklab.com/users/sign_up?locale=en. The page title is "Create a New Account". The navigation bar includes "qwik LABS", "WHAT'S A QWIKLAB?", "LAB CATALOGUE", "PRICING", "FAQS", "CONTACT", "Language", and "Create New Account Sign in". The form fields are:

- * First Name
- * Last Name
- * Company Name
- * E-mail
- * Password
- * Password Confirmation

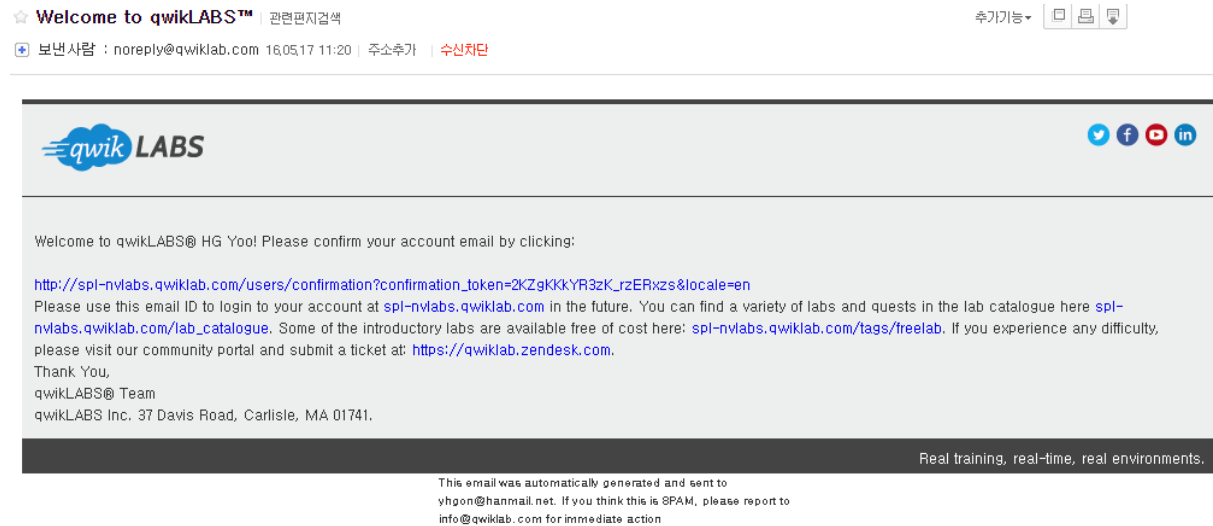
Below the form, there are two checkboxes:

- I agree to the Terms of Service
- Opt-in. Send me valuable promos and updates about new hands-on learning!

A "Create a New Account" button is located below the checkboxes. At the bottom, there are links for "Sign in", "Forgot your password?", and "Didn't receive confirmation instructions?". A "Support" button is visible on the right side of the page.

Step3. 인증메일 확인 및 계정 활성화

등록한 메일의 메일함을 열어보면 인증메일이 존재합니다. 이를 열어서 파란색 첫줄을 클릭해주면 인증확인이 됩니다.



Step 4. Qwiklab 메일 발송

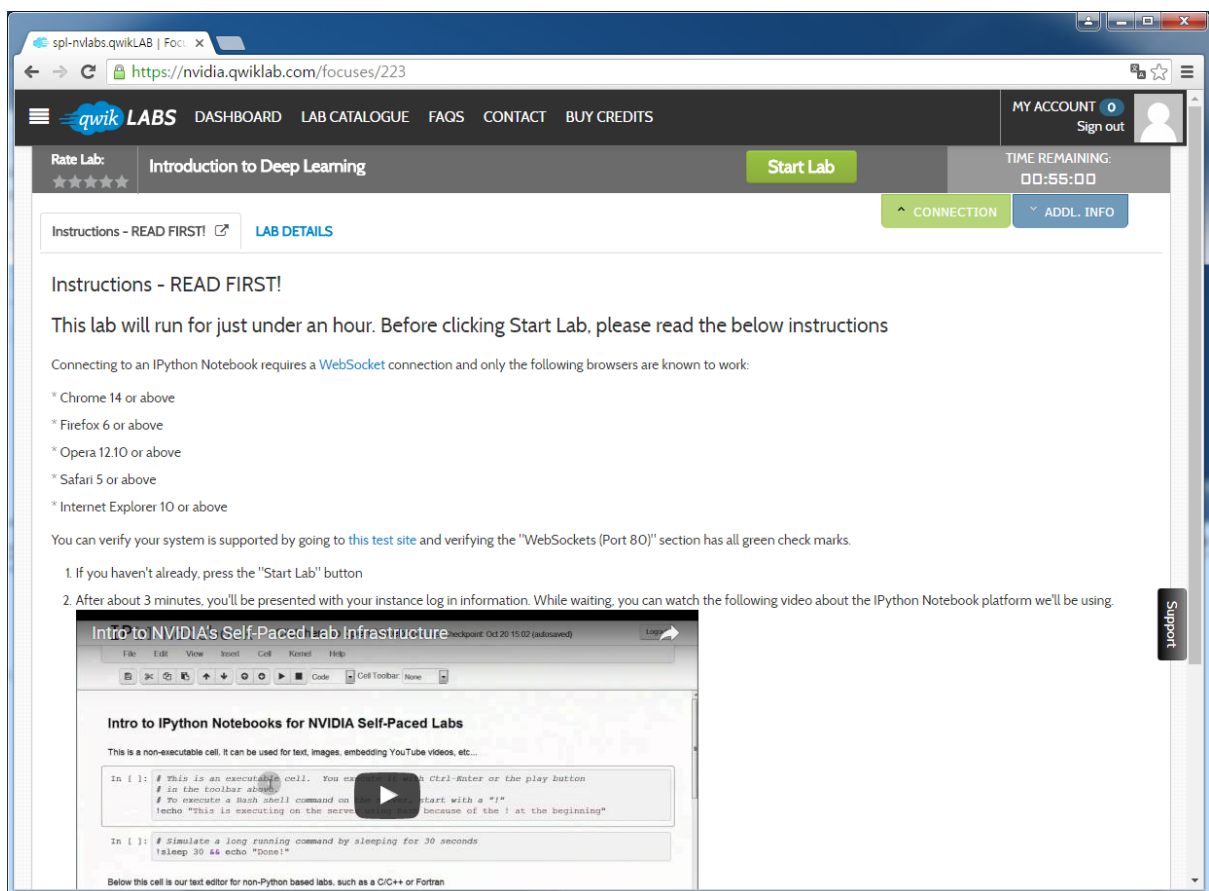
이름, 전화번호, 계정 등록시 사용한 email 을 행사 담당자에게 발송해야 합니다.

메일 주소는 다음과 같습니다 (kor_nvidia2017@naver.com)

(부록 : QWIKLAB 사용법 안내)

로그인 후 세션 실행

Introduction to Accelerated Computing 세션을 선택한 후 Start Lab 버튼을 클릭하여 서버를 켜줍니다. 아마존 서버를 켜는데 약 4분 정도의 시간이 소요됩니다.



The screenshot displays the QwikLAB web interface. At the top, there's a navigation bar with 'DASHBOARD', 'LAB CATALOGUE', 'FAQS', 'CONTACT', and 'BUY CREDITS'. The main content area is titled 'Introduction to Deep Learning' and features a 'Start Lab' button. A 'TIME REMAINING' indicator shows '00:55:00'. Below this, there are instructions for connecting to an IPython Notebook, including a list of supported browsers and a video player. The video player shows a video titled 'Intro to NVIDIA's Self-Paced Lab Infrastructure' with a play button. The video content includes instructions for executing commands in a notebook cell, such as 'echo "This is executing on the server"' and 'sleep 30 && echo "Done!"'. A 'Support' button is visible on the right side of the page.

아마존 서버 켜는 중..

Start 버튼을 누르고 약 4분 정도 소요됨.

서버가 켜지는 동안 **Instruction**을 읽어 볼 것을 권장합니다. **IPython Notebook**의 원활한 접속을 위해 최신 브라우저와 원활한 네트워크 접속 환경이 필요합니다.

The screenshot shows a web browser window displaying the QwikLABS interface. The URL is <https://nvidia.qwiklab.com/focuses/37>. The page title is "Introduction to Accelerated Computing" and it is currently in a "Launching" state. A "TIME REMAINING: 00:55:00" timer is visible. The page features a navigation menu with options like "DASHBOARD", "LAB CATALOGUE", "FAQS", "CONTACT", and "BUY CREDITS". A "MY ACCOUNT" section with a "Sign out" button is also present. The main content area includes a "Rate Lab" section with a 5-star rating, a "Instructions - READ FIRST!" link, and a "LAB DETAILS" tab. A table provides the following information:

Setup Time (min.)	4
Duration (min.)	45
Access (min.)	55

Tags: self-paced, C, C++, CUDA, OpenACC, Python, free. Levels: Introductory. Lab Description: Learn about the three techniques for accelerating code on a GPU: Libraries, Directives like OpenACC, and writing code directly in CUDA-enabled languages. In 45 minutes, you will work through a few different exercises demonstrating the potential speed-ups and ease of use of porting to the GPU. Date Created: April 14, 2016 09:40 AM. AWS Region: [us-east-1] US East (N. Virginia). The footer contains various links and social media icons, along with the copyright notice: © qwikLABS® '12-'16; a computer lab for everyone v.toscana(0512-0).

아마존 서버 작동

Click Here 버튼을 클릭하여 Lab을 시작합니다.

The screenshot shows a web browser window at <https://nvidia.qwiklab.com/fociuses/37>. The page title is "Introduction to Accelerated Computing" with a 5-star rating. The interface includes a navigation bar with "LAB CATALOGUE", "FAQS", "CONTACT", and "BUY CREDITS". A user account section shows "MY ACCOUNT" and "Sign out".

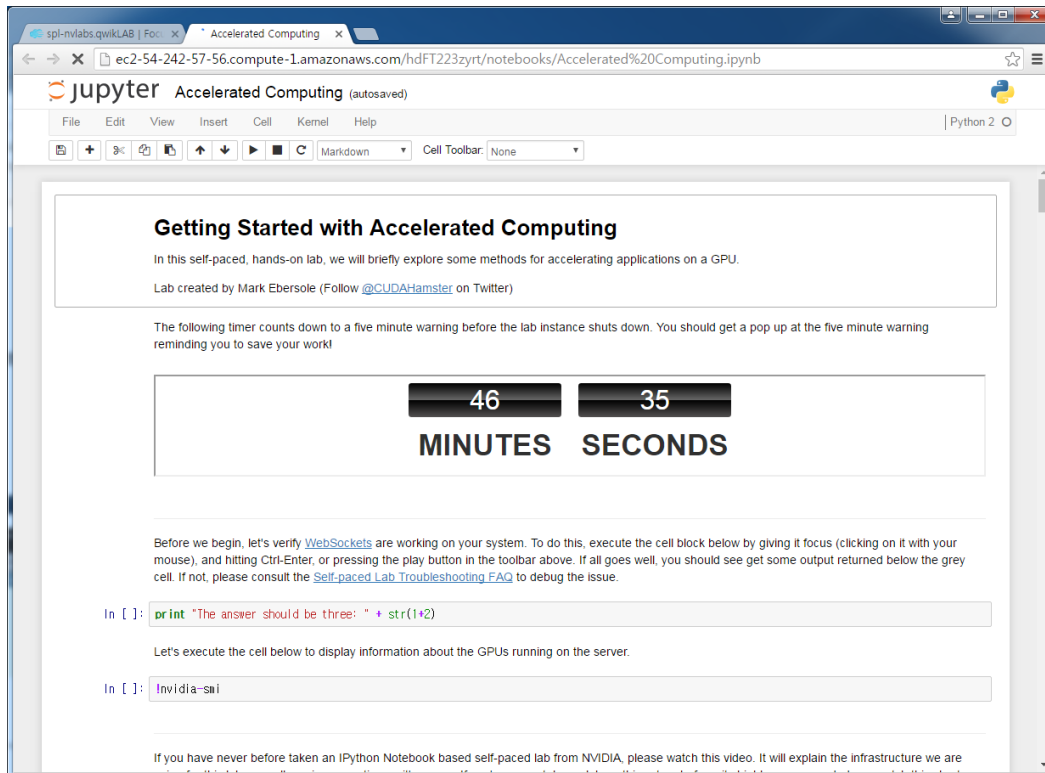
The main content area is titled "Lab Connection" and contains a warning box: "Warning: Please do not transmit any data into the AWS resources used in this lab that are not related to qwikLABS® or the hands-on lab you are taking." Below this, there is a "Connection" section with a password field containing "hdFT223zyrt" and a "Click here to launch your lab." link. There are "CONNECTION" and "ADDL. INFO" buttons.

System requirements are listed: "Opera 12.10 or above", "Safari 5 or above", and "Internet Explorer 10 or above". A verification step is provided: "You can verify your system is supported by going to this test site and verifying the 'WebSockets (Port 80)' section has all green checkmarks." A numbered list of steps follows:

1. If you haven't already, press the "Start Lab" button
2. After about 4 minutes, you'll be presented with your instance login information. While waiting, you can watch this video about the IPython Notebook platform we'll be using. When it's ready, you can access the instance by doing the following:
 - a. Copy the Password to your clipboard
 - b. Click on the provided link to open up the lab dashboard
 - c. When prompted, paste the given Password from your clipboard and click the Login button
3. Once logged into the instance, select the "GPU Computing - Click to Open" link to open the Notebook.
4. Follow the in-lab instructions and enjoy!

The footer contains links for "About", "Blog", "Partner Solutions", "Privacy Policy", and "Terms Of Service", as well as "Dashboard", "Lab Catalogue", "Faqs", "Contact", and "Buy Credits". Social media icons for Twitter, Facebook, and LinkedIn are present, along with the copyright notice: "© qwikLABS® '12-'16; a computer lab for everyone v.toscana(0512-0)".

랩을 시작하면 Ipython 노트북이 실행됩니다.



Python 입력 Cell에 마우스 클릭 후 실행버튼을 클릭하면 서버 측 결과를 확인할 수 있다.

특히, nvidia-smi 명령을 통해 아마존 서버에 nvidia GPU GRID K520이 장착된 것을 확인할 수 있습니다.

