

# Deep Learning Institute 사전 준비 사항

(부록 : QWIKLAB 사용법 안내)

## Step1. 사이트 접속

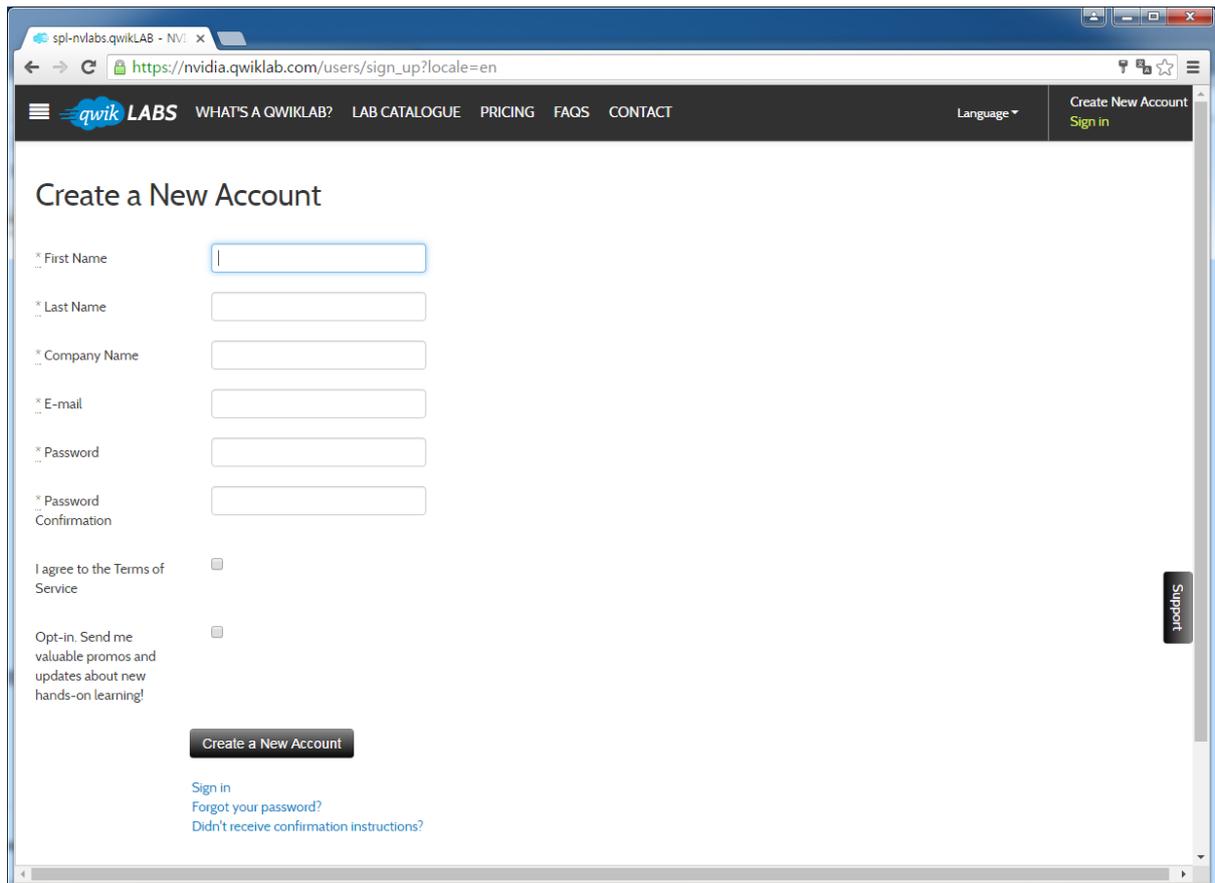
<http://nvidia.qwiklab.com>

The screenshot displays the NVIDIA QwikLab website interface. At the top, there is a navigation bar with the Qwik Labs logo and links for 'WHAT'S A QWIKLAB?', 'LAB CATALOGUE', 'PRICING', 'FAQS', and 'CONTACT'. On the right side of the navigation bar, there are options for 'Language', 'Create New Account', and 'Sign in'. The main content area features a large blue header with the text 'Real training, real-time, real environments.' and a sub-header 'Get hands-on practice working with cloud technologies and software. Train on-demand and learn at your own pace.' Below the header, there is a search bar labeled 'Search for a Lab:' with a search button and a 'Browse Lab Catalogue' button. To the right, there is a 'Browse Learning Quests (Lab Collections):' section. This section includes tabs for 'Languages', 'Technologies', and 'Domains'. The 'C/C++ Getting Started' quest is expanded, showing a description: 'Learn how to program GPUs with C/C++. With millions of GPU compute enabled GPUs sold to date, software developers, scientists and researchers are finding broad-ranging uses for GPU computing - Learn More'. It also displays statistics: 'Total Labs: 4', 'Total Lab Credits: 40', and 'Total Time: 05 h:42 m'. A 'View Labs in Quest' button is present. A 'Badge Earned' section shows a 'C/C++ Getting Started' badge. Below this, there are expandable sections for 'Python Getting Started', 'Fortran Getting Started', and 'MATLAB'. At the bottom of the page, there is a 'Getting Started?' section. A 'Support' button is visible on the right side of the page.

## 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](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

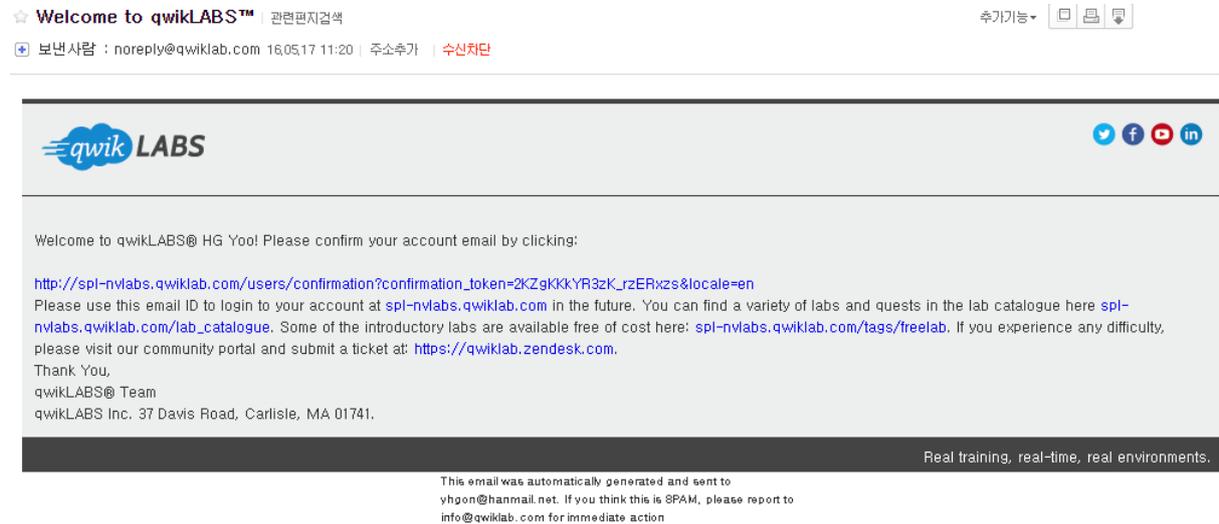
Below the form, there are two checkboxes:

- 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 of the form, 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

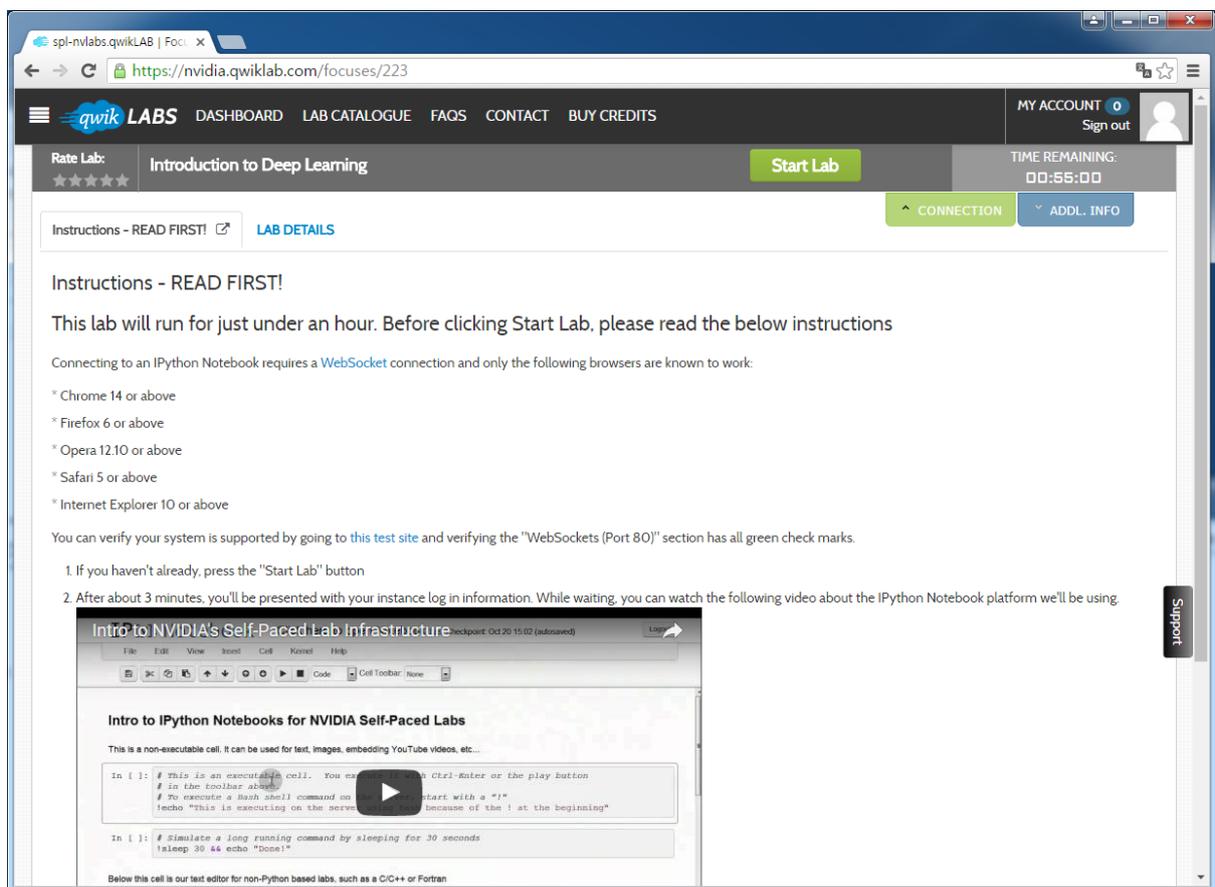
이름, 전화번호, 계정 등록시 사용한 email 을 행사 담당자에게 발송해야 합니다.

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 'LABS', 'DASHBOARD', 'LAB CATALOGUE', 'FAQS', 'CONTACT', and 'BUY CREDITS'. A 'MY ACCOUNT' section with a 'Sign out' link is on the right. The main content area is for the 'Introduction to Deep Learning' lab, featuring a 'Start Lab' button and a 'TIME REMAINING: 00:55:00' indicator. Below this, there are 'Instructions - READ FIRST!' and 'LAB DETAILS' links. The instructions section contains text about connecting to an IPython Notebook, a list of supported browsers (Chrome 14+, Firefox 6+, Opera 12.10+, Safari 5+, Internet Explorer 10+), and a verification link. A numbered list follows: 1. Press the 'Start Lab' button. 2. Watch a video about the IPython Notebook platform. An embedded video player shows the video '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". The status is "Launching". The time remaining is 00:55:00. The page includes a table with the following data:

| 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)

Footer links: About, Blog, Partner Solutions, Privacy Policy, Terms Of Service, Dashboard, Lab Catalogue, Faqs, Contact, Buy Credits.

## 아마존 서버 작동

Click Here 버튼을 클릭하여 Lab을 시작합니다.

The screenshot shows a web browser window with the URL <https://nvidia.qwiklab.com/fociuses/37>. The page header includes the QwikLABS logo and navigation links: DASHBOARD, LAB CATALOGUE, FAQs, CONTACT, and BUY CREDITS. A user account menu is visible in the top right corner with 'MY ACCOUNT' and 'Sign out' options.

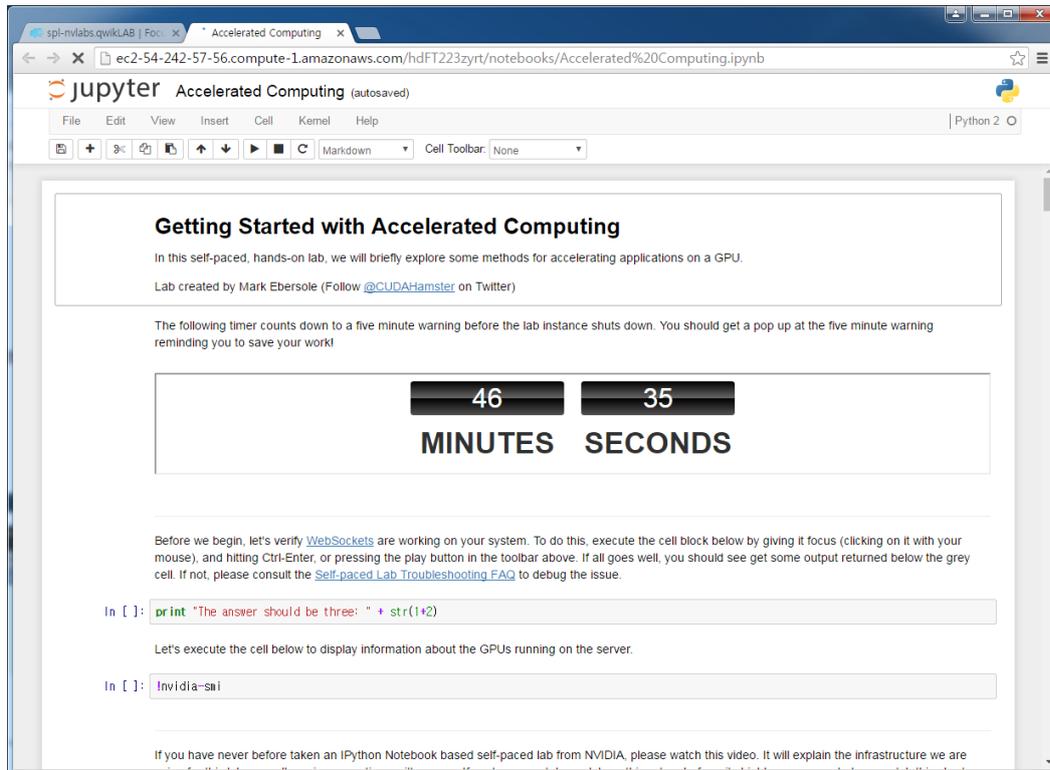
The main content area is titled 'Introduction to Accelerated Computing' and features a 'Rate Lab' section with five stars. A 'Connection' section contains a password field with the value 'hdFT223zyrt' and a 'Click here to launch your lab.' link. A red warning box states: 'Warning: Please do not transmit 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 the connection section, there are browser compatibility requirements: Opera 12.10 or above, Safari 5 or above, and Internet Explorer 10 or above. A paragraph explains how to verify system support by checking the 'WebSockets (Port 80)' section of a test site. A numbered list provides instructions for starting the lab:

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 a list of links: About, Blog, Partner Solutions, Privacy Policy, Terms Of Service, Dashboard, Lab Catalogue, Faqs, Contact, and Buy Credits. Social media icons for Twitter, Facebook, and LinkedIn are also 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.

