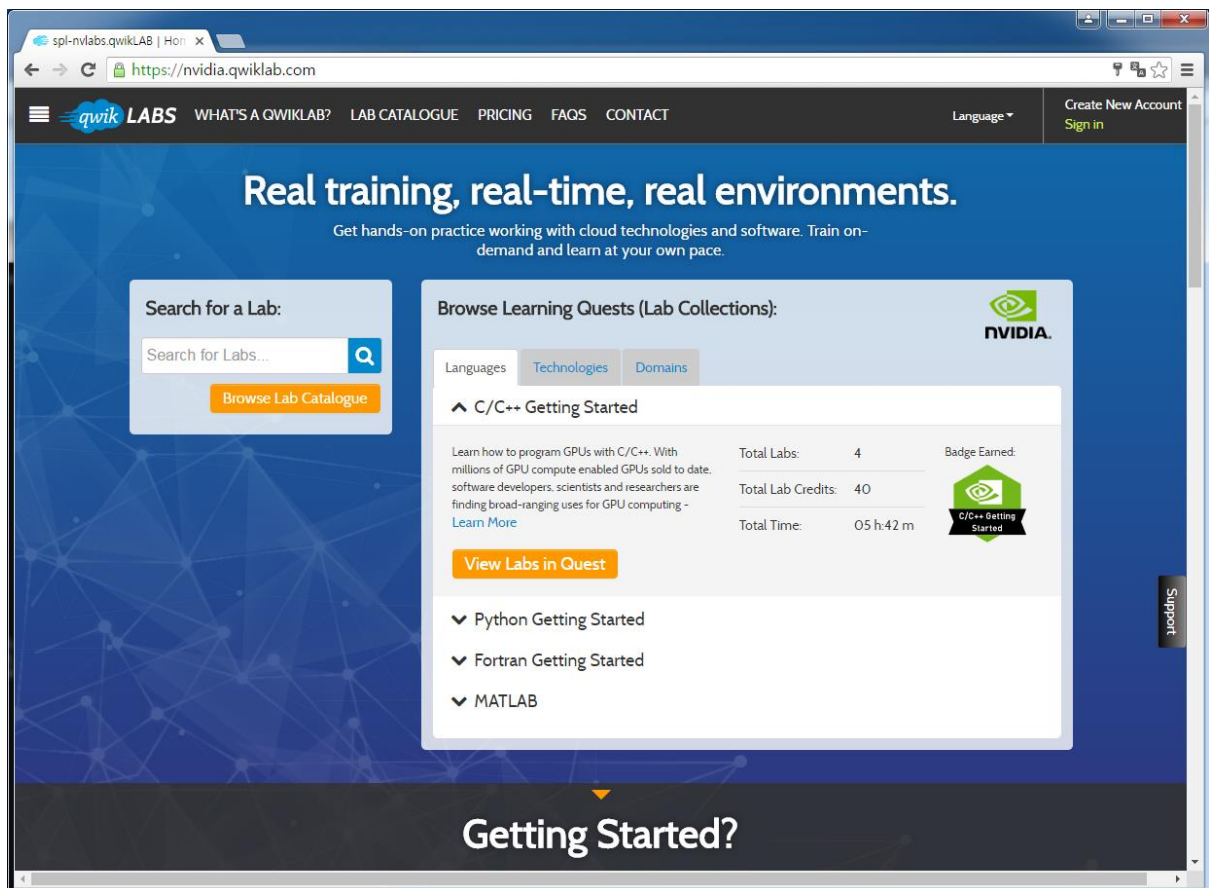


DLDay Hands-on Session 사전 준비 사항

(부록 : QWIKLAB 사용법 안내)

Step1. 사이트 접속

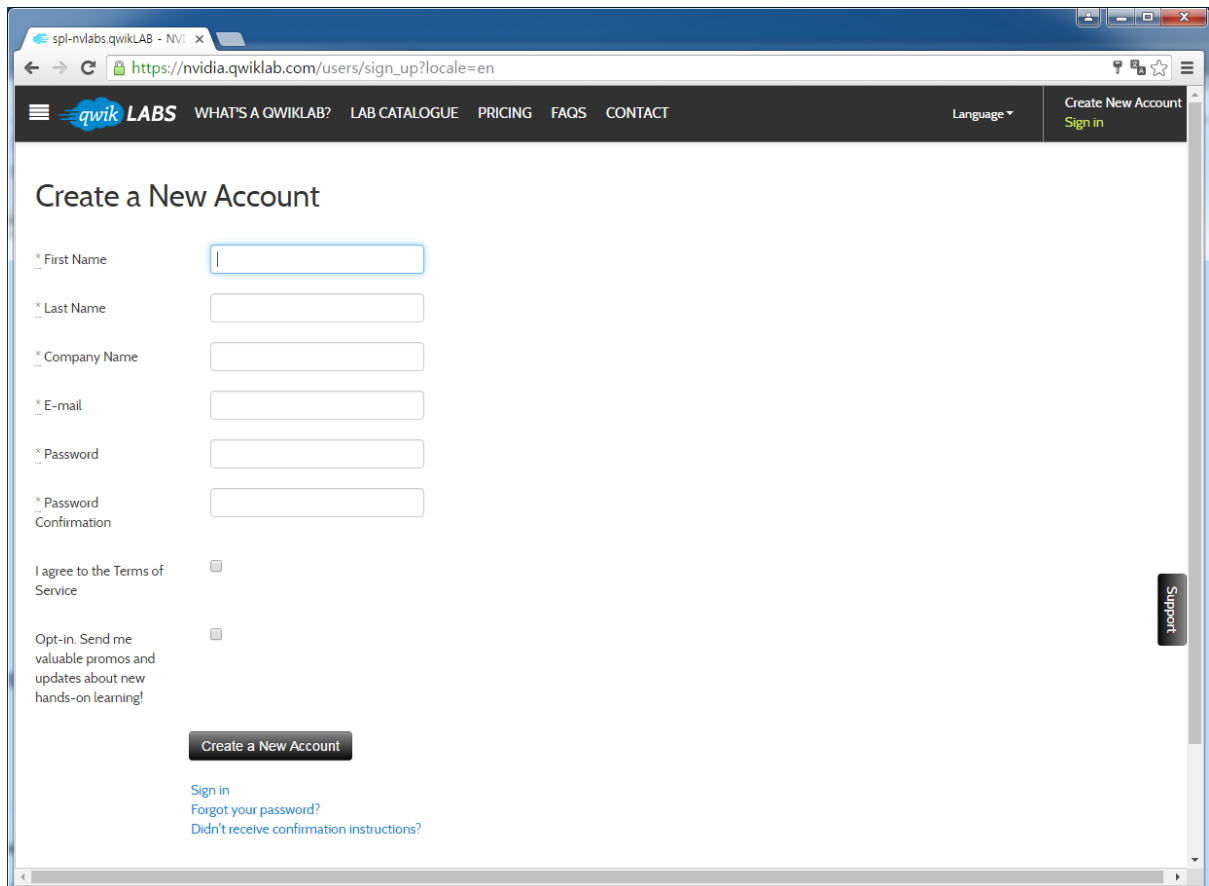
<http://nvidia.qwiklab.com>



Step2. 우상당 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)



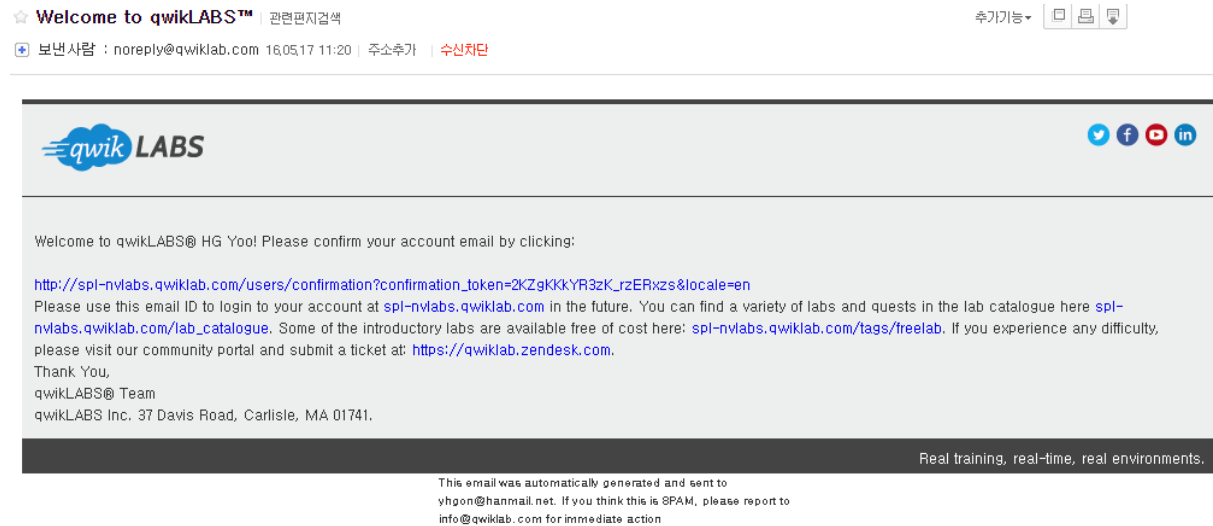
The screenshot shows a web browser window with the URL https://nvidia.qwiklab.com/users/sign_up?locale=en. The page title is "Create a New Account". The form includes the following fields and options:

- * First Name:
- * Last Name:
- * Company Name:
- * E-mail:
- * Password:
- * Password Confirmation:
- I agree to the Terms of Service:
- Opt-in. Send me valuable promos and updates about new hands-on learning!:

At the bottom of the form is a "Create a New Account" button. Below it are links for "Sign in", "Forgot your password?", and "Didn't receive confirmation instructions?". A "Support" button is located 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

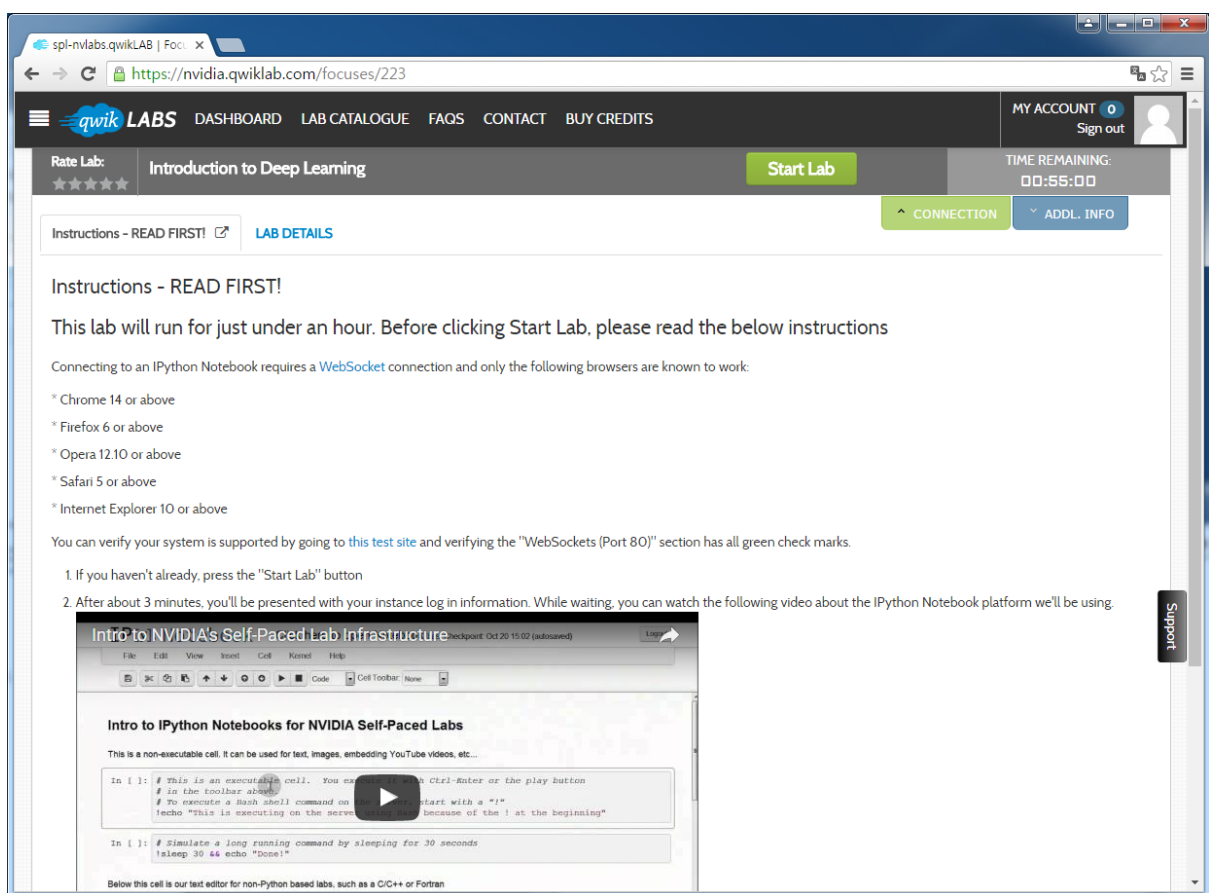
이름, 전화번호, 계정 등록시 사용한 email 을 행사 담당자에게 발송해야 합니다.

그러면, 행사당일 Hands-On Lab이 활성화 됩니다.

(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 is a navigation bar with 'qwik LABS' logo and links for 'DASHBOARD', 'LAB CATALOGUE', 'FAQS', 'CONTACT', and 'BUY CREDITS'. A 'MY ACCOUNT' section with a 'Sign out' button is visible on the right. The main content area is titled 'Rate Lab: Introduction to Deep Learning' and features a green 'Start Lab' button. Below this, there are buttons for 'CONNECTION' and 'ADDL. INFO'. The instructions section, titled 'Instructions - READ FIRST!', states that the lab will run for just under an hour and provides a list of supported browsers: Chrome 14 or above, Firefox 6 or above, Opera 12.10 or above, Safari 5 or above, and Internet Explorer 10 or above. It also includes a numbered list of steps for starting the lab and an embedded video player showing a video titled 'Intro to NVIDIA's Self-Paced Lab Infrastructure'.

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" counter shows 00:55:00. The page features a navigation bar with links for DASHBOARD, LAB CATALOGUE, FAQs, CONTACT, and BUY CREDITS. A "MY ACCOUNT" section with a "Sign out" button is visible in the top right. 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 lists the lab's setup time (4 min), duration (45 min), and access time (55 min). The lab is tagged as "self-paced, C, C++, CUDA, OpenACC, Python, free" and is at an "Introductory" level. The lab description states: "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." The lab was created on April 14, 2016, at 09:40 AM and is located in the AWS Region: [us-east-1] US East (N. Virginia). The footer contains links for About, Blog, Partner Solutions, Privacy Policy, Terms Of Service, Dashboard, Lab Catalogue, Faqs, Contact, and Buy Credits. Social media icons for Twitter, Facebook, YouTube, and LinkedIn are also present. A "Support" button is located in the bottom right corner.

아마존 서버 작동

Click Here 버튼을 클릭하여 Lab을 시작합니다.

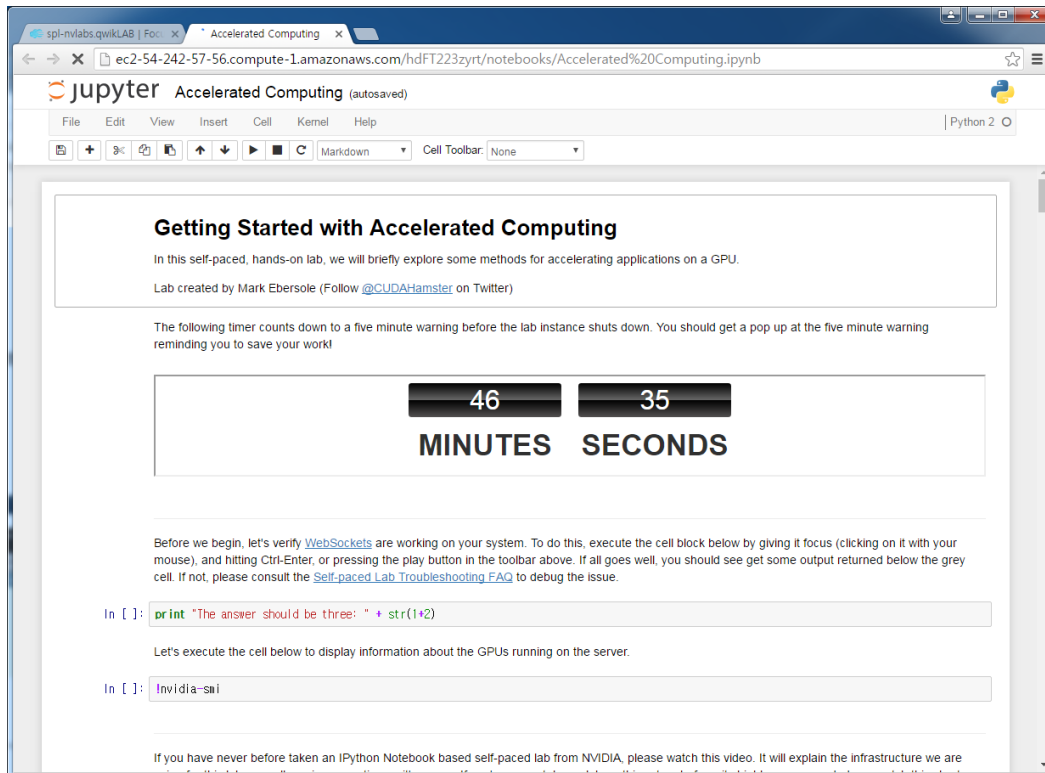
The screenshot shows a web browser window with the URL <https://nvidia.qwiklab.com/fociuses/37>. The page header includes the QwikLABS logo and navigation links: DASHBOARD, LAB CATALOGUE, FAQs, CONTACT, and BUY CREDITS. A user account menu is visible in the top right corner with 'MY ACCOUNT' and 'Sign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

The main content area is titled 'Introduction to Accelerated Computing' and features a 'Rate Lab' section with five stars. An 'End' button is present. A 'TIME REMAINING' section shows '00:55:00'. Below this, there are two main sections: 'Lab Connection' and 'Connection'. The 'Lab Connection' section contains a warning: '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.' The 'Connection' section shows a password field with the value 'hdFT223zyrt' and a 'Click here to launch your lab.' link. There are also buttons for '^ CONNECTION' and 'v ADDL. INFO'.

Below the connection section, there are system requirements listed: 'Opera 12.10 or above', 'Safari 5 or above', and 'Internet Explorer 10 or above'. A paragraph states: '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 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 a grid 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, YouTube, and LinkedIn are also present. The copyright notice reads: '© qwikLABS® '12-'16; a computer lab for everyone v.toscana(0512-0)'. A 'Support' button is located on the right side of the page.

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.

