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Chapter 1.
GETTING STARTED USING NVIDIA GPU CLOUD

The NVIDIA® GPU Cloud (NGC) manages a catalog of fully-integrated and optimized deep learning framework containers. By signing up for an account through the NGC website, you can access these containers in the NGC container registry and run them on a number of accelerated computing environments. The instructions in this document will assist in getting you started using NGC.

1.1. Signing Up for an NGC Account


2. Click Sign Up to start the sign-up process. Do not enter your email yet.

3. Fill in all the information on the NVIDIA GPU Cloud Sign Up form, then click Sign Up.
You will receive a welcome email with instructions on setting up your account access.
4. Click the link in the welcome email to open the initial NGC Create a Password page in a browser.

5. Follow the instructions to create your password.

6. To sign in to your account, click the sign in link in the Welcome screen telling you that your account has been activated.

1.2. Logging on to the NGC Website

After successfully activating your account, you are taken to the NGC website login screen. You can also open the login page at any time by going to https://ngc.nvidia.com.
1. Enter your email and click **Next**, then on the next page enter your password and click **Next**.
2. The first time that you sign in, you must agree to the NVIDIA GPU Cloud Terms of Use before you can enter the website.

![NVIDIA GPU Cloud terms of use](image)

After logging in, the website opens to the NVIDIA GPU Cloud Getting Started screen, which provides the general steps for using NGC with the cloud service provider.
3. Click **Get Started** to open the NGC Registry page.

### 1.3. Generating Your NGC API Key

After logging in, the website opens to the NGC Registry page.
1. Click **Get API key** to open the API Key page.

   The API Key is the mechanism used to authenticate your access to the NGC container registry.

2. Click **Generate API Key** to generate your API key.

   A warning message appears to let you know that your old API key will become invalid if you create a new key.

3. Click **Confirm** to generate the key.

   Your API key appears.

   You only need to generate an API Key once. NGC does not save your key, so store it in a secure place. (You can copy your API Key to the clipboard by clicking the copy icon to the right of the API key.)

   Should you lose your API Key, you can generate a new one from the NGC website. When you generate a new API Key, the old one is invalidated.
1.4. Browsing the Repositories in the NGC Container Registry

Browse the Repositories section of the NGC Registry page to determine which Docker repositories and tags are available to you.

Click one of the repositories to view information about that container image as well as the available tags that you will use when running the container.

The image below shows information for the PyTorch repository, including available tags.
What is PyTorch?

PyTorch is a Python package that provides two high-level features:

- Tensor computation (like numpy) with strong GPU acceleration
- Deep Neural Networks built on a tape-based autograd system

You can reuse your favorite Python packages such as numpy, scipy and Cython to extend PyTorch when needed.

Running PyTorch

Before running the container, use `docker pull` to ensure an up-to-date image is installed. Once the pull is complete, you can run the container image.

<table>
<thead>
<tr>
<th>TAG</th>
<th>SIZE</th>
<th>USER</th>
<th>LAST MODIFIED</th>
<th>PULL</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.02-py3</td>
<td>1.91 GB</td>
<td></td>
<td>March 2, 2018</td>
<td></td>
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<tr>
<td>18.01-py3</td>
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<td></td>
<td>January 23, 2018</td>
<td></td>
</tr>
<tr>
<td>17.12</td>
<td>1.58 GB</td>
<td></td>
<td>December 3, 2017</td>
<td></td>
</tr>
<tr>
<td>17.11</td>
<td>1.63 GB</td>
<td></td>
<td>November 16, 2017</td>
<td></td>
</tr>
<tr>
<td>17.10</td>
<td>1.55 GB</td>
<td></td>
<td>October 23, 2017</td>
<td></td>
</tr>
</tbody>
</table>

Using the most recent tag, you would specify the container to run as “pytorch:17.10” on the Docker command line in your accelerated computing environment.

Next Steps

Now that you have your API Key, you can begin using the containers from the NGC container registry.

Be sure to prepare your platform for running the NGC containers. See the following documentation for instructions on setting up your platform as well as information about the latest available framework containers:

- NVIDIA GPU Cloud Documentation
- Preparing to Use Containers (for DGX systems)
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