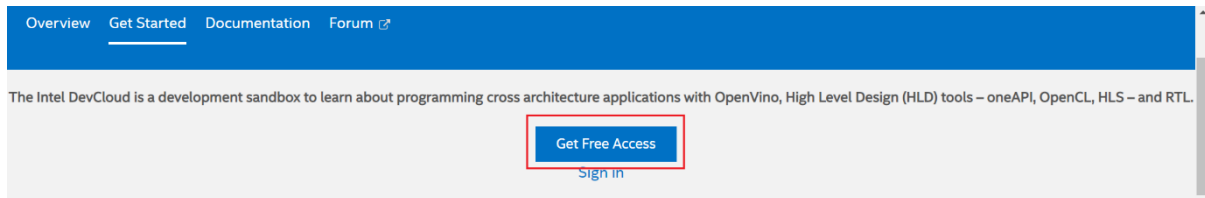


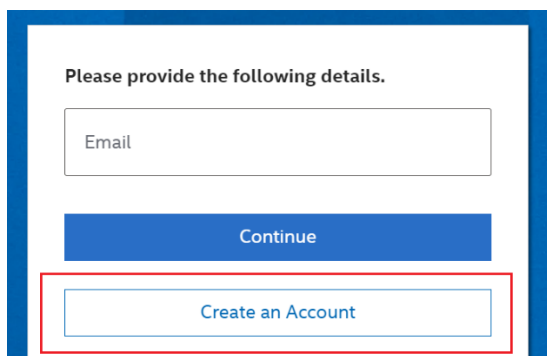
Getting started with Intel® DevCloud for oneAPI

Create the account

The Intel DevCloud is a development sandbox to learn about programming cross architecture applications with oneAPI. To get a free access and create an account please follow the link and click 'Get Free Access' button: https://devcloud.intel.com/oneapi/get_started/



Select 'Create an Account' option if you don't have it:



Then please fill all required details and verify your email.

Please provide the following details.


<input type="text" value="Email"/>	<input type="text" value="Confirm Email"/>
<input type="text" value="First Name"/>	<input type="text" value="Last Name"/>
<input style="border-bottom: 1px solid #ccc;" type="text" value="Language"/>	<input style="border-bottom: 1px solid #ccc;" type="text" value="Country/Region"/>
<input style="border-bottom: 1px solid #ccc;" type="password" value="New Password"/>	<input style="border-bottom: 1px solid #ccc;" type="password" value="Confirm New Password"/>

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By submitting this form, you are confirming you are an adult 18 years or older and you agree to share your personal information with Intel. Intel's web sites and communications are subject to our [Privacy Notice](#) and [Terms of Use](#).

Next: Verify your email

Check your email and copy the verification code:

 noreply@consumer.intel.com
To: You

Verify your email address

Your Intel single-use code is: 143024

This code will expire in 20 minutes. If you did not request this, you can disregard this email.

Sincerely,
Intel

Continue with account creation process:

Please provide the following details.

We just sent a code to
demodevcloud3@outlook.com

Create an account

Send new code

You will be asked to enter some info about yourself, read and accept terms and conditions and submit the account creation request.

Once the account is created, please sign in. You will be asked to accept Terms and Conditions

Read and Accept Terms and Conditions

By accessing this site and the cloud computing services that it provides, you acknowledge and accept the following:

- [Intel DevCloud Access and Software License Agreement](#)
- [Colfax Services Terms](#)

☒ I accept these terms.

Submit

Connect to Intel DevCloud

There are 2 options to connect to the DevCloud:

1) SSH Clients

Please follow instructions from 'Connect to the DevCloud using SSH Clients' section on this page: https://devcloud.intel.com/oneapi/get_started/baseToolkitSamples/

2) JupyterLab* (recommended)

- On the bottom of the Get Started page there is a link to Launch the JupyterLab*: https://devcloud.intel.com/oneapi/get_started/

Connect with JupyterLab*

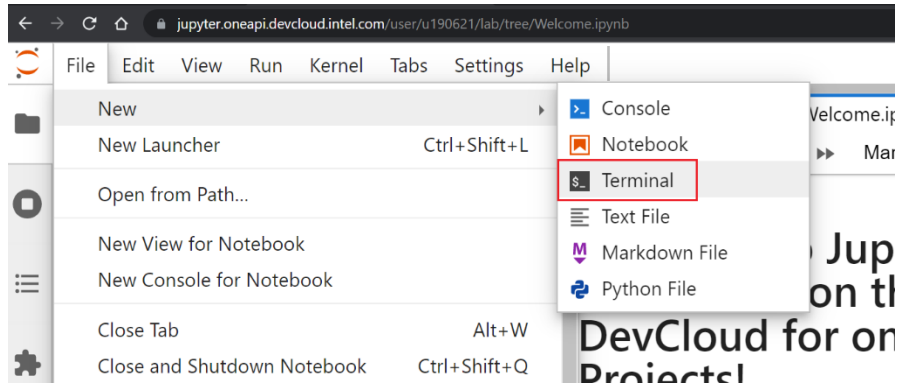


Connect with JupyterLab*

Use JupyterLab* to learn about how oneAPI can solve the challenges of programming in a heterogeneous world and understand the SYCL* language and programming model.

[Launch JupyterLab*](#)

- Once the server is up and you are connected, please run the terminal:



- Note that you are on the login node by default and need to get the compute node to compile and run exercises. You still may compile on the login node, however, it doesn't have GPU available.
You may also follow all instructions below if you connected via SSH.

To allocate the compute node in interactive mode please use the following command:

```
qsub -I -l nodes=1:gpu:ppn=2 -d .
```

For more details on the basics of the JupyterLab access to the Intel DevCloud for oneAPI please refer to the 'Welcome.ipynb' tab opened by default in the Jupyter Notebook.

- Set the environment for the latest oneAPI version on the compute node:
`source /opt/intel_2023.1/oneapi/setvars.sh --force`

You may double check that the environment is set by running icpx with `--version` option:

```
icpx --version
```

```
Launcher X Welcome.ipynb X u190621@s001-n063: X
u190621@s001-n063:~$ icpx --version
Intel(R) oneAPI DPC++/C++ Compiler 2023.1.0 (2023.1.0.20230320)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /glob/development-tools/versions/oneapi/2023.1/oneapi/c
ompiler/2023.1.0/linux/bin-llvm
Configuration file: /glob/development-tools/versions/oneapi/2023.1/on
eapi/compiler/2023.1.0/linux/bin-llvm/./bin/icpx.cfg
u190621@s001-n063:~$
```