

Let us SYCL workshop

20th December 2022



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**INTEL EVENT CODE- DEVCLOUD ACCESS
CLICK HERE-[HTTPS://INTEL.LY/3BFGAXU](https://intel.ly/3BFGAXU)**

Explore Resources-
<https://devcloud.intel.com/oneapi/>

Workshop sign-up process – Step 1 of 7

<https://intel.ly/3BFgaXu>

The screenshot shows a web browser window with the Intel DevCloud registration page. The page title is "Create an Intel® DevCloud Account". Below the title, there is a sub-header "Sign up for immediate access to the latest Intel technology without downloads or hardware setup." and a link for "Intel Employees? Create account here". A note states "All fields are required except any fields specifically marked as optional." The form is divided into sections: "Basic Contact Information" and "More About you". The "Basic Contact Information" section contains fields for "First Name" (filled with "aditya"), "Last Name" (filled with "shrivats"), "Email Address" (filled with "aditya@intel.com"), "Domain" (filled with "aditya@intel.com"), and "Country/Region" (filled with "India"). A blue "Next Step" button is located below the "Basic Contact Information" section. The "More About you" section has a "Go" button with an external link icon. The "Terms and Conditions" section also has a "Go" button with an external link icon. The footer of the page includes the Intel logo, social media icons for Facebook, Twitter, LinkedIn, YouTube, and Instagram, and a list of links: "Company Overview", "Contact Intel", "Newsroom", "Investors", "Careers", "Corporate Responsibility", "Diversity & Inclusion", and "Public Policy".

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Intel Employees? Create account here
All fields are required except any fields specifically marked as optional.

Basic Contact Information

First Name aditya	Last Name shrivats
Email Address aditya@intel.com	Domain aditya@intel.com
Country/Region India	

Next Step

More About you [Go](#)

Terms and Conditions [Go](#)

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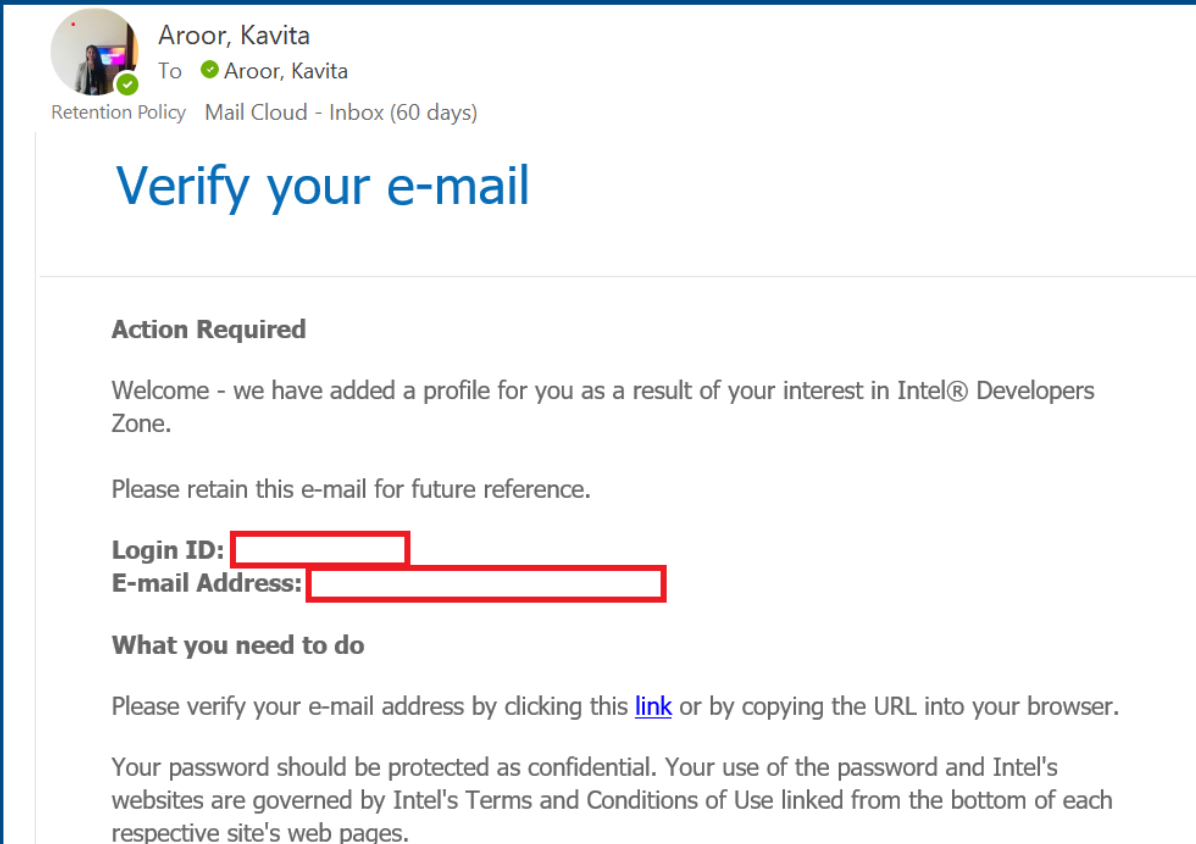
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Workshop sign-up process – Step 2 & 3 of 7

<https://intel.ly/3BFgaXu>

Click on the link to verify your email, this should refresh the Browser and lead you to the Sign in page like this.



Aroor, Kavita
To **Aroor, Kavita**
Retention Policy Mail Cloud - Inbox (60 days)

Verify your e-mail

Action Required

Welcome - we have added a profile for you as a result of your interest in Intel® Developers Zone.

Please retain this e-mail for future reference.

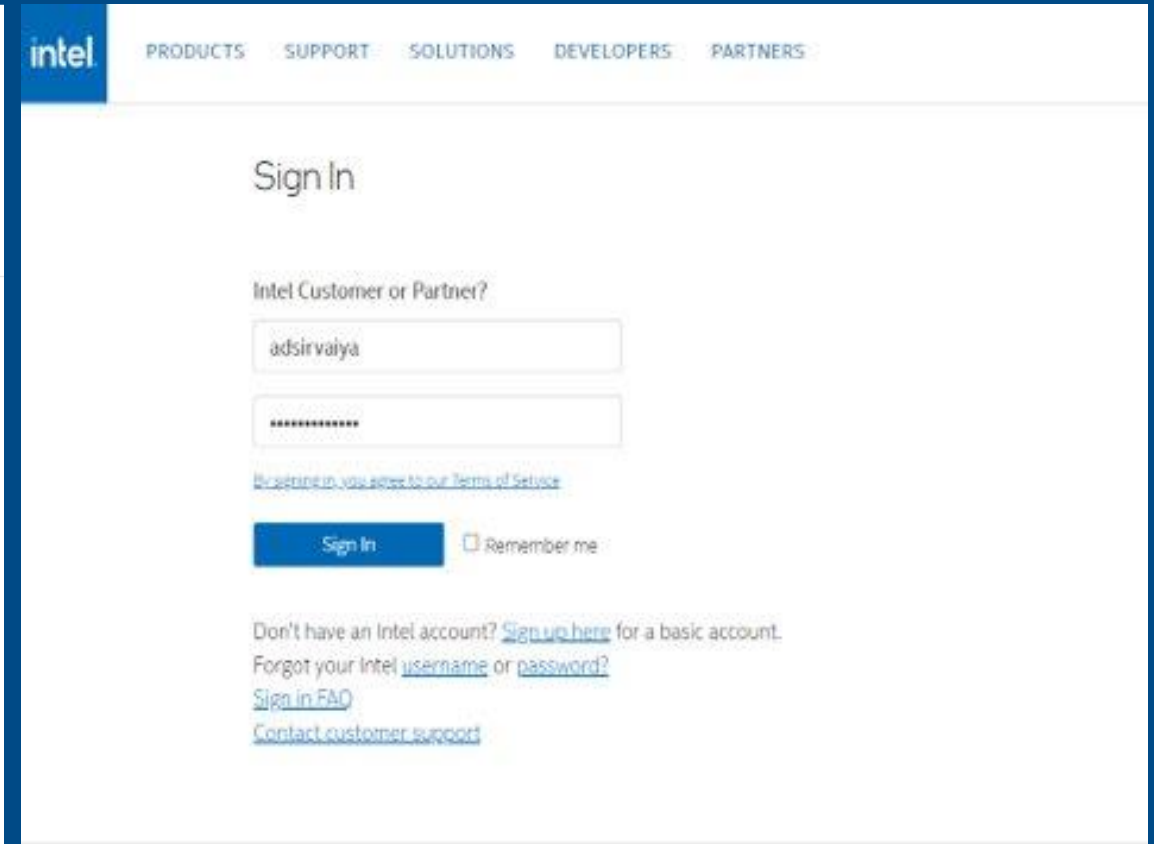
Login ID:

E-mail Address:

What you need to do

Please verify your e-mail address by clicking this [link](#) or by copying the URL into your browser.

Your password should be protected as confidential. Your use of the password and Intel's websites are governed by Intel's Terms and Conditions of Use linked from the bottom of each respective site's web pages.



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Workshop sign-up process – Step 4 of 7

https://devcloud.intel.com/oneapi/get_started/

Scroll down the page to connect with JupyterLab*

Connect with Jupyter* Lab



Connect with Jupyter* Notebook

Use Jupyter Notebook to learn about how oneAPI can solve the challenges of programming in a heterogeneous world and understand the Data Parallel C++ (DPC++) language and programming model.

[Launch JupyterLab*](#)

Training Resources

DevCloud Commands

Learn about the features of the compute nodes, data management, and how to submit, query, and delete your jobs.

Introduction to oneAPI and Essentials of Data Parallel C++

Use Jupyter Notebook* to learn about how oneAPI can solve the challenges of programming in a heterogeneous world and understand the Data Parallel C++ (DPC++) language and programming model.

Workshop sign-up process – Step 5 of 7

Launch Server

The screenshot shows the JupyterHub web interface. At the top left, there is a navigation bar with the JupyterHub logo, the text 'jupyterhub', and links for 'Home' and 'Token'. The main content area displays a message: 'Server not running' in a large font, followed by the text 'Your server is not running. Would you like to start it?'. Below this text is a blue button labeled 'Launch Server', which is highlighted by a red rectangular border.

Workshop sign-up process – Step 6 of 7

The screenshot shows a Jupyter Notebook interface with a file browser on the left and a notebook window titled 'Welcome.ipynb'. The notebook content includes a title, an introductory paragraph, and a diagram.

Welcome to Jupyter Notebooks on the Intel DevCloud for oneAPI Projects!

This document covers the basics of the JupyterLab access to the Intel DevCloud for oneAPI Projects. It is not a tutorial on the JupyterLab itself. Rather, we will run through a few examples of how to use the computational resources available on the DevCloud *beyond* the notebook.

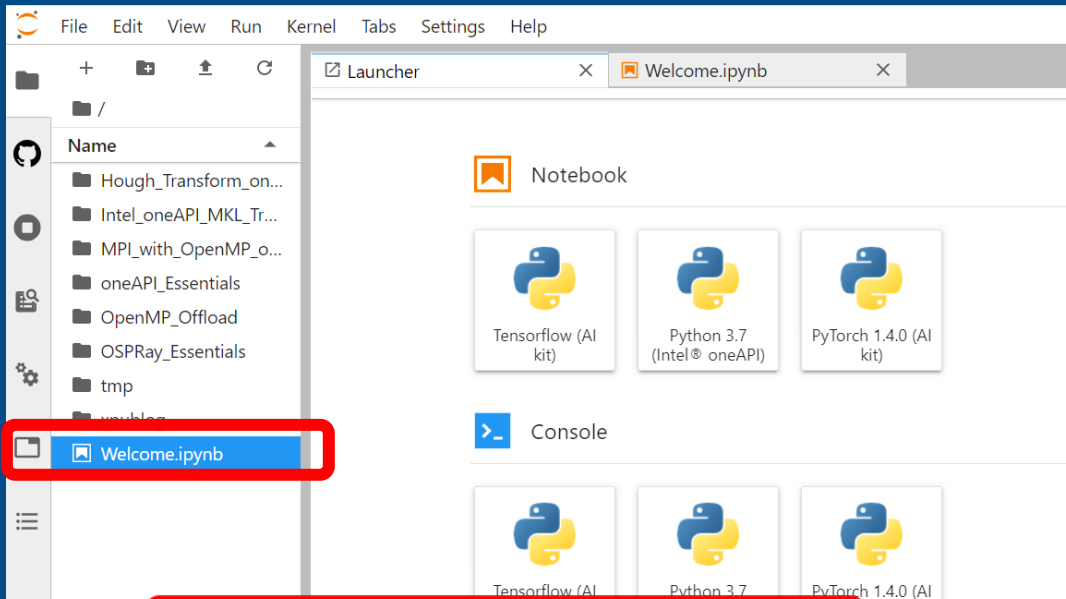
The diagram below illustrates the high-level organization of the DevCloud. This tutorial explains how to navigate this organization.

The diagram illustrates the high-level organization of the DevCloud. It shows the following components and their interactions:

- Web Browsers (Firefox, Safari, Chrome, ...)**: Access the system via **HTTPS** over the **Internet**.
- Linux (Terminal), OS X (Terminal), Windows (PuTTY), WinSCP, FileZilla...**: Access the system via **SSH** over the **Internet**.
- Login Node**: Receives connections from both web browsers and terminal clients. It connects to **Storage Servers (/home, /glob)** via **NFS**.
- Job Queue**: Receives jobs from the **Login Node** and distributes them to the **Cloud** servers via **qsub**.
- Cloud**: A collection of servers (server #1 to server #n) that execute jobs. Some servers are running **Notebook** instances, while others are running **Computational Job** instances. Some servers are marked as **Available for Jobs**.
- Storage Servers (/home, /glob)**: Provide storage for the system, connected to the **Cloud** servers via **NFS**.

Workshop sign-up process – Step 7 of 7

Jupyter notebooks – Introduction



```
u42034@s001-n0000:~$ /data/oneapi_workshop/get_jupyter_notebooks.sh
## u42034 is copying jupyter-notebooks...
sending incremental file list
jupyter-notebooks.tar.gz
 37.57M 100% 271.22MB/s   0:00:00 (xfr#1, to-chk=0/1)

sent 37.58M bytes received 35 bytes 25.05M bytes/sec
total size is 37.57M speedup is 1.00
jupyter-notebooks/
jupyter-notebooks/00_Introduction_to_Jupyter/
jupyter-notebooks/00_Introduction_to_Jupyter/.ipynb_checkpoints/
jupyter-notebooks/00_Introduction_to_Jupyter/.ipynb_checkpoints/Introduction_to_Jupyter-checkpoint.ipynb
jupyter-notebooks/00_Introduction_to_Jupyter/Introduction_to_Jupyter.ipynb
jupyter-notebooks/00_Introduction_to_Jupyter/q
```

Name	Last Modified
folder jupyter-notebooks	7 days ago
folder oneapi-evangelist-workshop	3 months ago
folder tmp	4 minutes ago

Name	Last Modified
folder / jupyter-notebooks / 00_Introduction_to_Jupyter	3 minutes ago
folder 01_oneAPI_Intro	7 days ago
folder 02_DPCPP_Program_Struct...	7 days ago

Name	Last Modified
folder / jupyter-notebooks / 00_Introduction_to_Jupyter / src	4 minutes ago
file Introduction_to_Jupyter.ipynb	5 minutes ago
file q	7 days ago

*This path would be updated during the workshop

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