

oneAPI & AI Analytics Toolkits

20th December 2022



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**INTEL EVENT CODE- DEVCLOUD ACCESS
CLICK HERE-[HTTPS://INTEL.LY/3UIYN9R](https://intel.ly/3UIYN9R)**

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

Workshop sign-up process – Step 1 of 7

<https://intel.ly/3UIYn9R>

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. 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, Last Name, Email Address, Username, and Country/Region. The "More About you" section contains a field for "More About you" and a link to "Terms and Conditions". A "Next Step" button is located at the bottom right of the form. 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.

Intel® DevCloud

DevCloud Registration

intel.com/content/www/us/en/forms/idz/devcloud-registration.html?igt=https://www.intel.com/content/www/us/en/secure/forms/devcloud-enrollment/account-provisioning...

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All fields are required except any fields specifically marked as optional.

Basic Contact Information

First Name aditya	Last Name shrivats
Email Address @gmail.com	Username adshrivats
Country/Region India	

Next Step

More About you

Terms and Conditions

Company Overview Contact Intel Newsroom Investors Careers Corporate Responsibility Diversity & Inclusion Public Policy

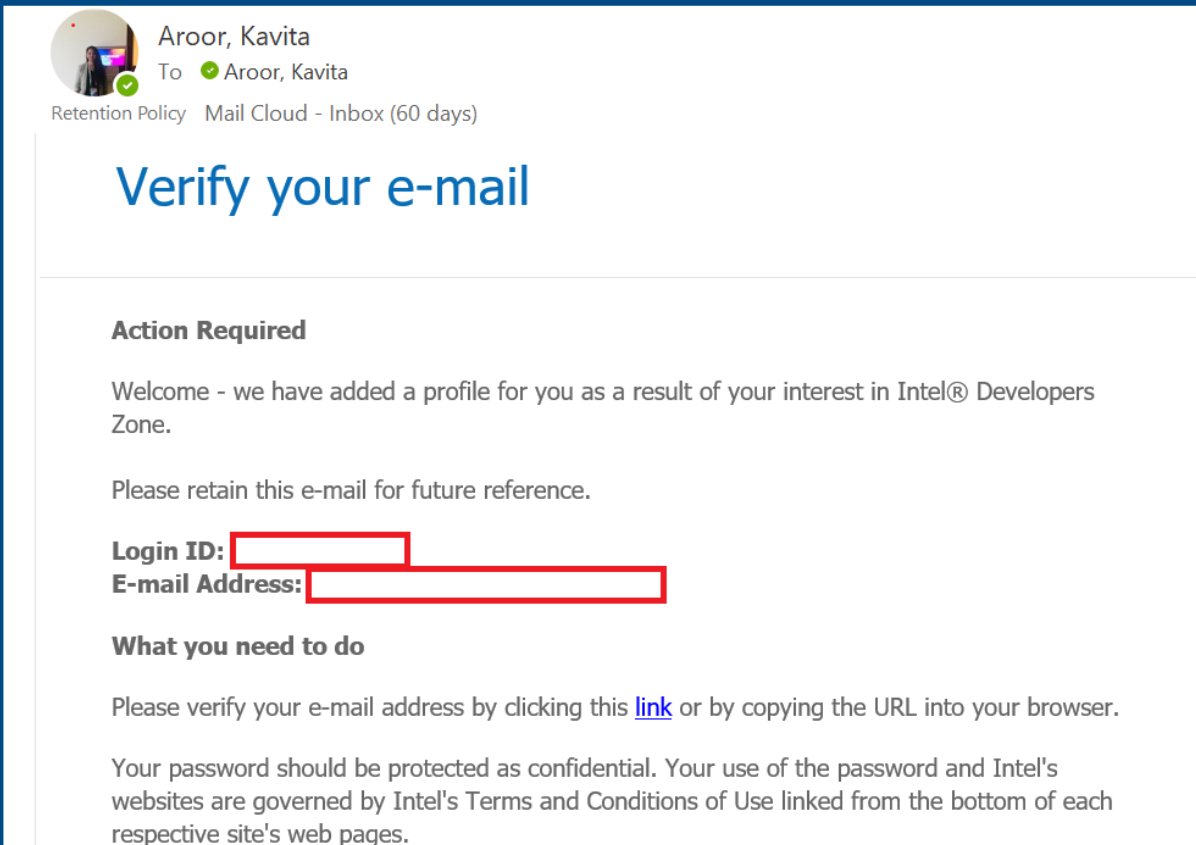
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Workshop sign-up process – Step 2 & 3 of 7

<https://intel.ly/3UIYn9R>

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.

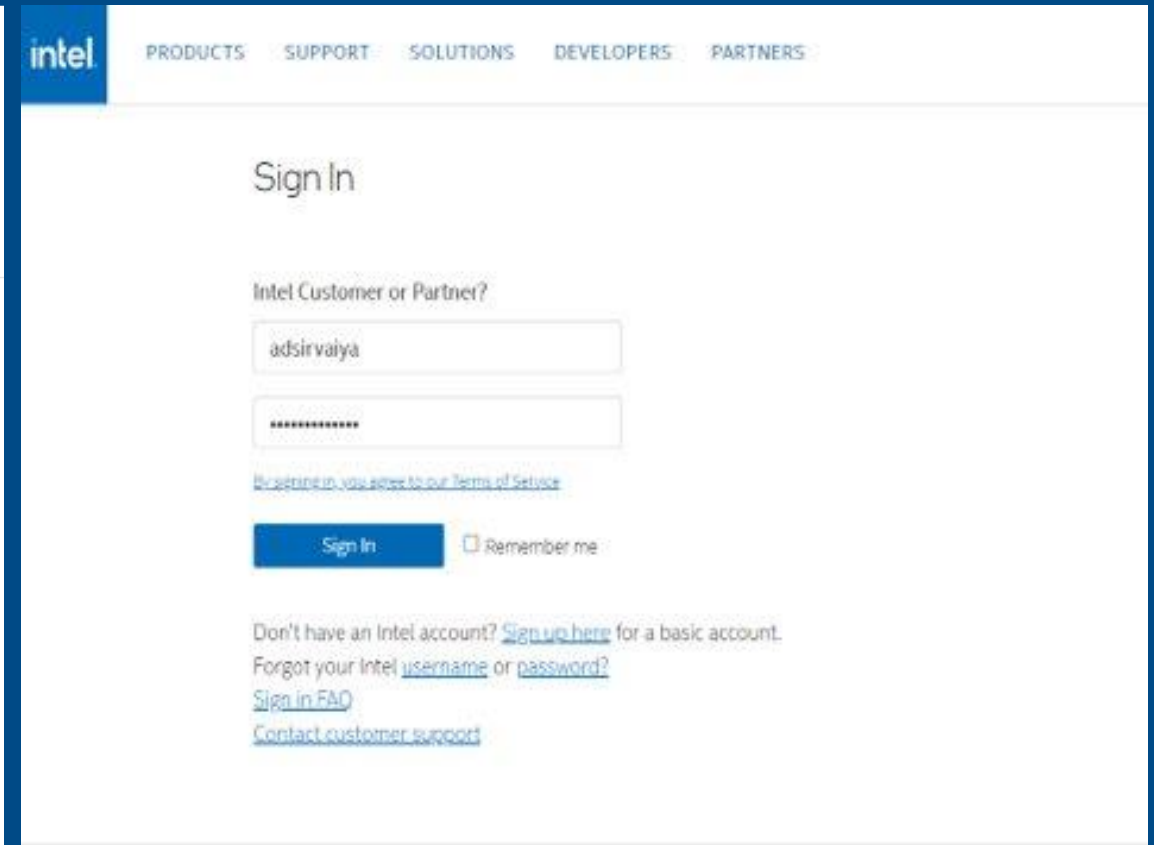
Login ID:

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

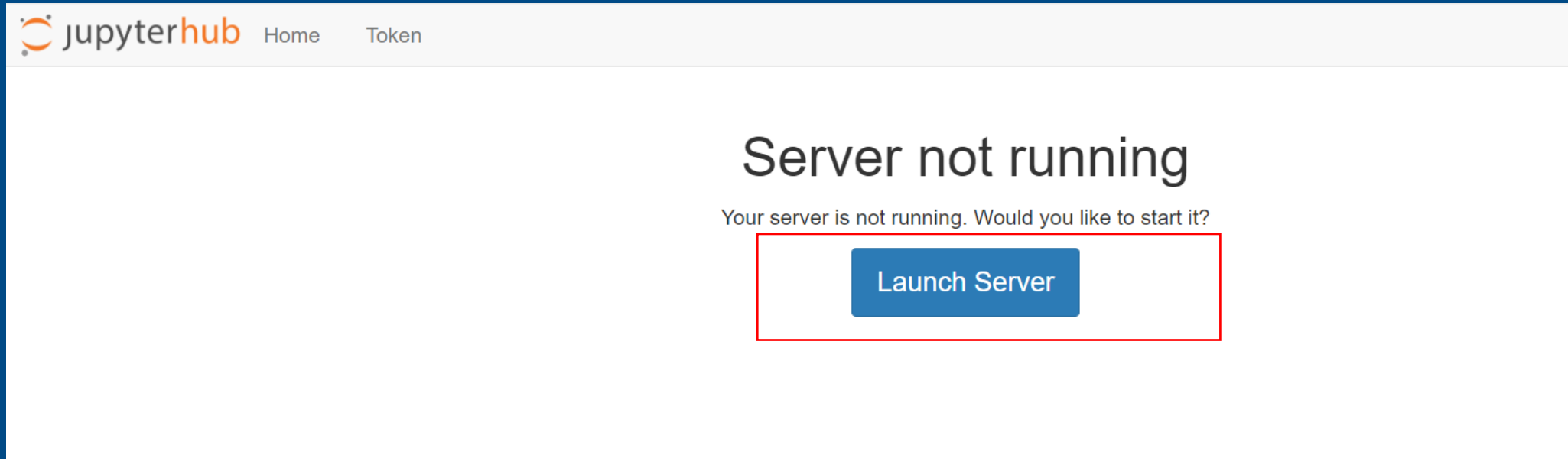
Learn about the features of the compute nodes, data management, and how to submit, query, and delete your jobs.

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.

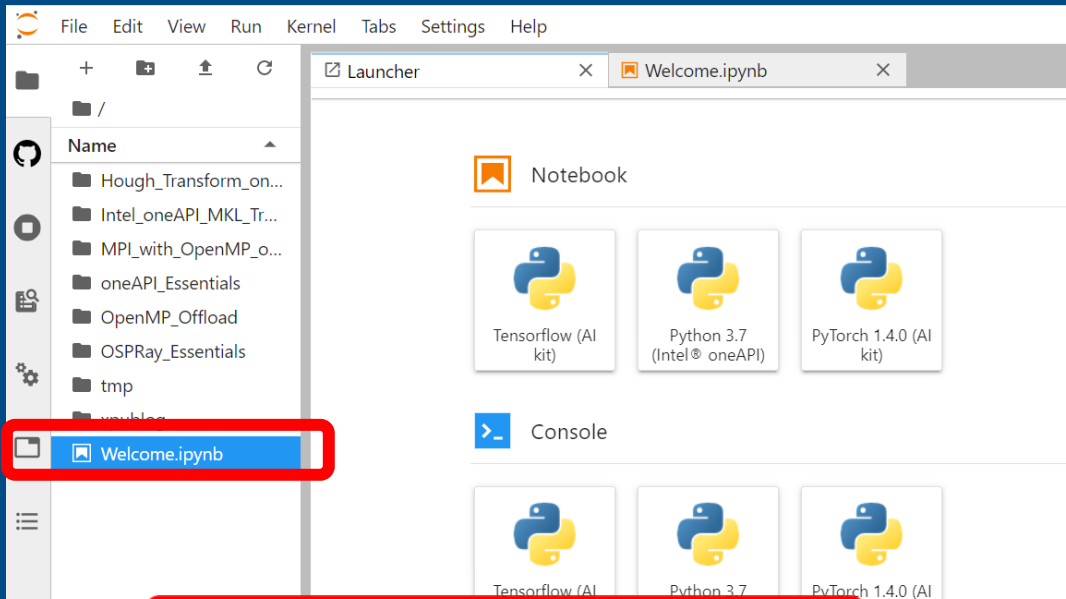
The diagram below illustrates the high-level organization of the DevCloud. This tutorial explains how to navigate this organization.

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** through the **Internet**.
- Linux (Terminal), OS X (Terminal), Windows (PuTTY), WinSCP, FileZilla...**: Access the system via **SSH** through the **Internet**.
- Internet**: The central communication hub.
- Login Node**: Receives connections from the Internet and provides **NFS** access to **Storage Servers**.
- Storage Servers: /home, /glob**: Provide **NFS** storage for the system.
- Job Queue**: Manages the execution of jobs, receiving **qsub** commands from the Login Node and distributing them to the Cloud.
- 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 or are **Available for Jobs**.

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
jupyter-notebooks	7 days ago
oneapi-evangelist-workshop	3 months ago
tmp	4 minutes ago

Name	Last Modified
00_Introduction_to_Jupyter	3 minutes ago
01_oneAPI_Intro	7 days ago
02_DPCPP_Program_Struct...	7 days ago

Name	Last Modified
src	4 minutes ago
Introduction_to_Jupyter.ipynb	5 minutes ago
q	7 days ago

*This path would be updated during the workshop

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