

Intel® Devcloud setup

INTEL EVENT CODE- DEVCLOUD ACCESS

[HTTPS://INTEL.LY/3CUEZXG](https://intel.ly/3CUEZXG)

Devcloud Access code:

29Nov21-NUHS-SG

Workshop sign-up process – Step 1 of 9

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



Step 1: Sign in or Register

To get an Intel® DevCloud account, you must first create a Basic Intel® Account



Step 2: Activate Intel® DevCloud for oneAPI

To get free access, tell us a bit more about yourself and how you would like to use the Intel DevCloud.

Workshop sign-up process – Step 2 of 9

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

Register for Intel® Developer Zone

Sign up for access to tools, code, and support communities with Intel experts and industry peers. Discover new opportunities to help you develop, market, and sell your software.

[Already have an account?](#)

Personal Information

<div>First Name</div> <div>kavita</div>	<div>Last Name</div> <div>aroor</div>
<div>Business Email Address</div> <div>kavita.aroor1@gmail.com</div>	<div>Username</div> <div>kavita.aroor1@gmail.com</div>

☒ Use my email as username

<div>Password</div> <div>.....</div>	<div>Confirm Password</div> <div>.....</div>
--------------------------------------	--

✓ Must include a letter

✓ Must include a number

✓ Must include a special character

✓ Must be between 8 and 15 characters in length

Country/Region

India

▼

<div>Country/Region Code</div> <div>▼</div>	<div>Phone (optional)</div> <div>09096754225</div>	<div>Extension (optional)</div>
---	--	---------------------------------

Next Step

Workshop sign-up process – Step 3 of 9

Enrollment Questions

Company Information

Company Name/University
Test

Company/University URL (optional)

Company Type (optional) ▾

Communication Subscriptions

Subscribe to email updates from Intel (optional).


☒ Software Developer Product Insights

☐ Intel Software Developer Zone Newsletter

☐ Edge Software Hub Product Communication

☐ Yes, I would like to subscribe to stay connected to the latest Intel technologies and industry trends by email and telephone. I can unsubscribe at any time.

Next Step




PRODUCTS SUPPORT SOLUTIONS DEVELOPERS PARTNERS


Thank you for registering for the Intel® Developer Zone

If this is the first time you are creating an Intel account, a verification email has been sent to you. Please check your inbox and follow the link to complete your registration. The link will expire in 5 days.

Didn't receive the verification email for Intel® Developer Zone? Check your spam or junk folder, or click on Resend Email below.

Before you can proceed with the resending of email, please complete the captcha below.


 I'm not a robot

 reCAPTCHA
Privacy - Terms


[Resend email](#)

Existing Intel.com users and new users who have completed the email verification step can proceed to [My Intel](#) and access the Intel® Developer zone Program tools and resources.

**Do not close the Browser,
verify your email!**



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.

Click on the link to verify your email, this should refresh the Browser and lead you to the Sign in page.. Sign up with your credentials and you will be directed to the DevCloud registration page.

Workshop sign-up process – Step 4 of 9

Step 2: Activate Intel® DevCloud for oneAPI

To get free access, tell us a bit more about yourself and how you want to use the Intel® DevCloud.

Pls. fill in the form and don't miss to add the Event code in the highlight section.

29Nov21-NUHS-SG

As you register you should receive the email..

“We are excited you chose Intel® DevCloud for oneAPI where you can develop, test, and run your workloads across a range of Intel® CPUs, GPUs, and FPGAs using oneAPI software.

Free access. No downloads. No installations. No maintenance. Get Started-

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

Required Fields(*)

* First Name	* Country
<input type="text" value="Kavita"/>	<input type="text" value="Please select a country/region"/>
* Last Name	* Company or University
<input type="text" value="Aror"/>	<input type="text" value="Company or Academic Institution"/>
* Email Address	* What type of developer are you?
<input type="text" value="kavita.aror@intel.com"/>	<input type="text" value="-Select-"/>
* Which hardware and accelerator architecture are you developing for?(Select all that apply)	Do you have an event code provided by Intel? (Optional)
<input type="checkbox"/> ASICs (application-specific integrated circuits) <input type="checkbox"/> CPU <input type="checkbox"/> FPGA (field-programmable gate array) <input type="checkbox"/> GPGPU (general-purpose GPU) <input checked="" type="checkbox"/> GPU <input type="checkbox"/> Integrated Graphics <input type="checkbox"/> IPU (image processing unit) <input type="checkbox"/> NNPU (neural network processing unit) <input type="checkbox"/> VPU (vision processing unit) <input type="checkbox"/> Other	<input type="text" value="oneAPI19May"/> 29Nov21-NUHS-SG
<input checked="" type="checkbox"/> * I have read and accept the Intel® DevCloud Agreement	

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 to use for this business request. You also agree to subscribe to stay connected to the latest Intel technologies and industry trends by email and telephone. You may unsubscribe at any time. Intel's websites and communications are subject to our [Privacy Notice](#) and [Terms of Use](#).

<29Nov21-NUHS-SG>

Workshop sign-up process – Step 5 of 9

WELCOME

Intel® DevCloud is preinstalled with the latest Intel® hardware, frameworks, tools, and libraries.

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, kavita aroor, accept these terms.

Submit

Workshop sign-up process – Step 6 of 9

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 7 of 9

Launch Server

 jupyterhub Home Token

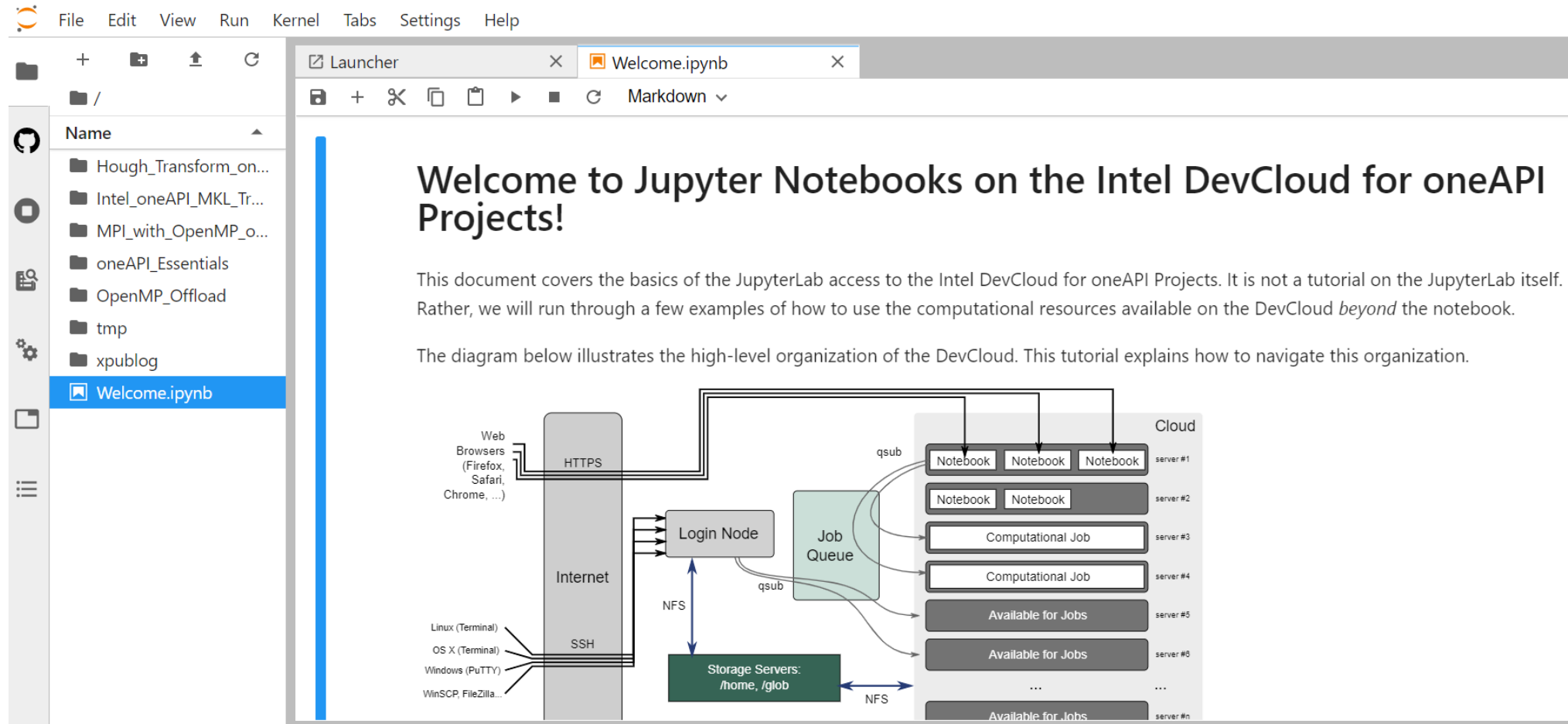
Server not running

Your server is not running. Would you like to start it?

Launch Server

<oneAPI18AUG>

Workshop sign-up process – Step 8 of 9



The screenshot shows a Jupyter Notebook interface with a menu bar (File, Edit, View, Run, Kernel, Tabs, Settings, Help) and a toolbar. The left sidebar displays a file explorer with a list of folders: Hough_Transform_on..., Intel_oneAPI_MKL_Tr..., MPI_with_OpenMP_o..., oneAPI_Essentials, OpenMP_Offload, tmp, and xpublog. The 'Welcome.ipynb' file is selected. The main content area displays the title 'Welcome to Jupyter Notebooks on the Intel DevCloud for oneAPI Projects!' and two paragraphs of text. Below the text is a diagram illustrating the high-level organization of the DevCloud.

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.

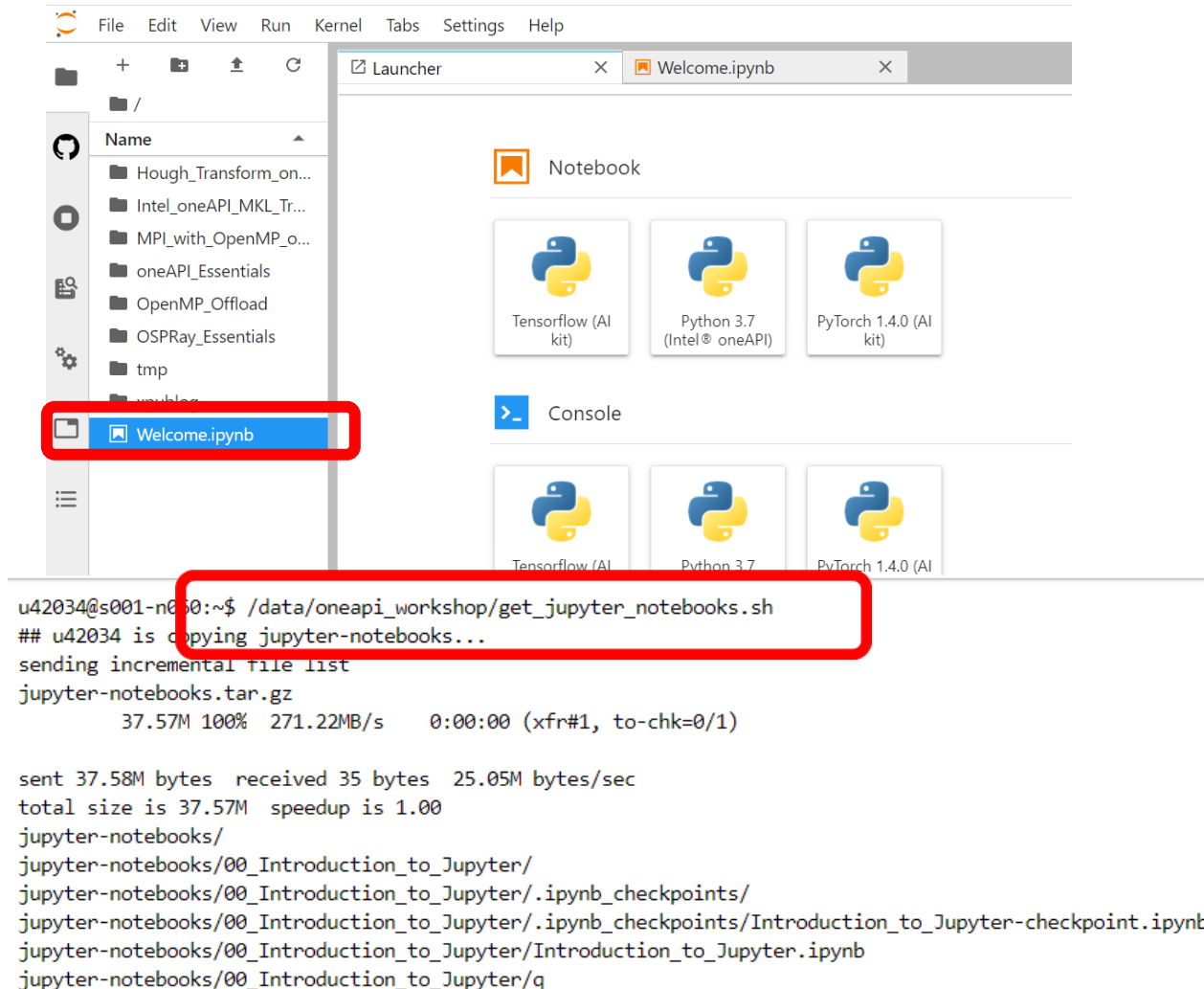
The diagram below illustrates the high-level organization of the DevCloud. This tutorial explains how to navigate this organization.

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

- Web Browsers (Firefox, Safari, Chrome, ...)** connect to the **Internet** via **HTTPS**.
- Linux (Terminal), OS X (Terminal), Windows (PuTTY), WinSCP, FileZilla...** connect to the **Internet** via **SSH**.
- The **Internet** connects to a **Login Node**.
- The **Login Node** connects to a **Job Queue** via **qsub**.
- The **Job Queue** connects to **Storage Servers: /home, /glob** via **NFS**.
- The **Storage Servers** connect to the **Cloud** via **NFS**.
- The **Cloud** consists of multiple servers (server #1, server #2, server #3, server #4, server #5, server #6, ..., server #n). Each server contains one or more **Notebook** instances or **Computational Job** instances.
- The **Job Queue** connects to the **Cloud** via **qsub**.

Workshop sign-up process – Step 9 of 9

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