INTEL® AI ACADEMY

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Intel® AI DevCloud

Now Available

Free cloud compute is now available for Intel® AI Academy members. Use Intel® AI DevCloud powered by Intel® Xeon® Scalable processors for your machine learning and deep learning training and inference compute needs.

Request Access (https://plan.seek.intel.com/ww_en_software_registration-form-IntelNervanaDevCloudSignUp_html)

Professors: Get access to the Intel AI DevCloud for your classroom. Apply now (/en-us/ai-academy/devcloud-for-classroom).

Benefits   **Available Frameworks and Tools**

- Thirty days of access
- 200 GB of file storage
- Access to a remote cluster of Intel® Xeon® Scalable processors
- Get started without making any investment

- neon™ framework
- Intel® Optimization for Theano*
- Intel® Optimization for TensorFlow*
- Intel® Optimization for Caffe*
- Intel® Distribution for Python* (including NumPy, SciPy, and scikit-learn*)
- Keras* library

Support

Our team monitors the community forum Monday through Friday, 9:00 a.m. – 5:00 p.m., Pacific daylight time.

[AI Academy Forum (https://communities.intel.com/community/tech/intel-ai-academy)](https://communities.intel.com/community/tech/intel-ai-academy)

FAQ

General

⌄ Who can request access to the Intel AI DevCloud?

Developers, data scientists, professors, students, start-ups, and others who are members of Intel® AI Academy are eligible to request access.

⌄ How do I become a member of the Intel® AI Academy?

You can join the Intel AI Academy by requesting access or become a member by registering [here (/en-us/ai/sign-up)](/en-us/ai/sign-up).

⌄ What happens once I have received access?

Once you gain access, you will log on to a Linux*-based head node of a batch farm. There, you can stage your code and data, compile it, and then submit jobs to a queue. Once the queued job completes, your results will be in your home (**$HOME**) directory.

- Jobs are scheduled on Intel® Xeon® Scalable processors.
- Each processor has 24 cores with two-way hyperthreading.
- Each processor has access to 96 GB of on-platform RAM (DDR4).
- Only one job will run on any processor at a time.
- You will get 200 GB of file storage quota.
- Your home directory is not visible to other users.

Note: Once your access period expires, your home directory on the cluster will be deleted.

⌄   **I don't live in the United States. Can I still get access to the Intel AI DevCloud?**

The Intel AI DevCloud is available to all members of the Intel AI Academy, and is accessible from any country.

⌄   **How much do I have to pay to use the Intel AI DevCloud?**

Nothing. It is free to the members of Intel® AI Academy. Joining the Intel AI Academy is also free.

Executing Jobs

To help developers execute jobs on the Intel AI DevCloud, type the following answers into the command line in Linux*.

⌄   **How do I set total wall time to the maximum on the Intel AI DevCloud?**

In the command line, type one of the following:

- **Echo python <sample.py> -l walltime=24:00:00 | qsub**
- Add wall time in bash script before running in qsub mode:**#!/bin/sh#PBS -l walltime=24:00:00 python sample.py**

How do I query a job?

In the command line, type:

qpeek -o <JOBID>

If this doesn't return any results, it is possible that the job is complete and qpeek did not get a chance to peek.

Alternatively run qsub with the "-k oe" option:

qsub -k oe my_script

Standard input/output and error will be dumped into your home directory. You can check at any time while jobs are running.

How do I increase the wall time?

In the command line, type one of the following:

- **#PBS -l walltime=<10:30>,mem=320kb**
- **echo sleep 1000 | qsub -l walltime=<00:30:00>**

How do I run several jobs on multiple nodes?

In the command line, type:

#PBS -l nodes=1:knl

How do I get the full information about a job?

In the command line, type:

qstat -f <JOBID>

⌄   **How do I delete a job?**

In the command line, type:

qdel <JOBID>

⌄   **How do I request specific nodes for features?**

In the command line, type:

echo numactl -H | qsub -l nodes=1:knl:cache

⌄   **How do I find the architecture and features of the compute nodes available to me?**

Run the following command in the login node:

pbsnodes

⌄   **How do I log in to a compute node?**

In the command line, type:

qsub –I

⌄   **How do I get details of the nodes?**

In the command line, type:

pbsnodes -a

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