

How to login to Oakleaf-FX

Information Technology Center
The University of Tokyo

How to Login (1 / 4)

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- Login to Oakleaf-FX
 - ▣ Oakleaf-FX has 6 login nodes
 - oakleaf-fx-1.cc.u-tokyo.ac.jp
 - ...
 - oakleaf-fx-6.cc.u-tokyo.ac.jp
 - ▣ “oakleaf-fx.cc.u-tokyo.ac.jp” is also accepted
 - ▣ SSH version 2

How to Login (2/4)

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- Public Key Certificate

- Public Key Certificate

- Password provided by ITC
with 8 characters is not used
for “login”

How to Login (3/4)

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- Password with 8 characters by ITC
 - ▣ for registration of keys
 - ▣ browsing manuals
 - Only users can access manuals
 - SSH Port Forwarding is possible by keys

How to Login (4/4)

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- Procedures
 - ▣ Creating Keys
 - ▣ Registration of Public Key
 - ▣ Login

Creating Keys on Unix (1 / 3)

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- OpenSSH for UNIX/Mac/Cygwin

Creating Keys on Unix (2/3)

7

- Command for creating keys
\$ ssh-keygen -t rsa
- RETURN
- Passphrase
- Passphrase again

Creating Keys on Unix (3/3)

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```
>$ ssh-keygen -t rsa
```

Generating public/private rsa key pair.

Enter file in which to save the key (/home/guestx/.ssh/id_rsa):

Enter passphrase (empty for no passphrase): (your favorite passphrase)

Enter same passphrase again:

Your identification has been saved in /home/guestx/.ssh/id_rsa.

Your public key has been saved in /home/guestx/.ssh/id_rsa.pub.

The key fingerprint is:

```
>$ cd ~/.ssh
```

```
>$ ls -l
```

total 12

-rw-----	1	guestx	guestx	1743	Aug 23 15:14	id_rsa
-rw-r--r--	1	guestx	guestx	413	Aug 23 15:14	id_rsa.pub

```
>$ cat id_rsa.pub
```

(cut & paste)

Registration of Public Key (1 / 3)

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- Through User Portal (WEB)

- ▣ <https://oakleaf-www.cc.u-tokyo.ac.jp/cgi-bin/hpcportal.en/index.cgi>

- <http://www.cc.u-tokyo.ac.jp/system/fx10/fx10-login.html>

- <http://www.cc.u-tokyo.ac.jp/system/fx10/fx10-tebiki/>



Password

Registration of Public Key (2/3)

Password provided by ITC

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ファイル(E) 編集(E) 表示(V) 履歴(S) ブックマーク(B) ツール(I) ヘルプ(H)

Mozilla Firefox スタートページ x Oakleaf-FX User Portal x +

https://oakleaf-www.cc.u-tokyo.ac.jp/cgi-bin/hpcportal.en/index.cgi

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Trend ツールバー

Oakleaf-FX User Portal

[English/Japanese]

Login

Enter user ID and password then click [Login] button.

Login Reset

Please enable JavaScript and Cookie.

- Supported browsers -

- * Internet Explorer 8 and over
- * Safari 5 and over
- * Firefox 9 and over
- * Google Chrome 18 and over

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Registration of Public Key (3/3)

Cut & Paste: Public Key

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Firefox Mozilla Firefox スタートページ x Oakleaf-FX User Portal x +

https://oakleaf-www.cc.u-tokyo.ac.jp/cgi-bin/hpcportal_u.en/index.cgi

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Trend ツールバー

Oakleaf-FX User Portal Logout

Information

SSH Public Key

Password

Document

Tool

Login Message

FX10 (Oakleaf-FX) Unix at Information Technology Center, The University of Tokyo.
(Mon Apr 02, 2012) / oakleaf-fx.cc.u-tokyo.ac.jp.

FX10 (Oakleaf-FX) system will be SHUT DOWN on Fri May 29, 2015, at 9:00
system will be STARTED on Fri May 29, 2015, at 17:00

HPC Challenge
service will be started on Thu May 28, 2015, at 9:00
will be stopped on Fri May 29, 2015, at 9:00

For more information about this service, see
http://www.cc.u-tokyo.ac.jp/service/services_stop/
<http://www.cc.u-tokyo.ac.jp/service/4800hpc/>

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Login

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- Login

```
$ ssh oakleaf-fx.cc.u-tokyo.ac.jp -l t130**
```

(or)

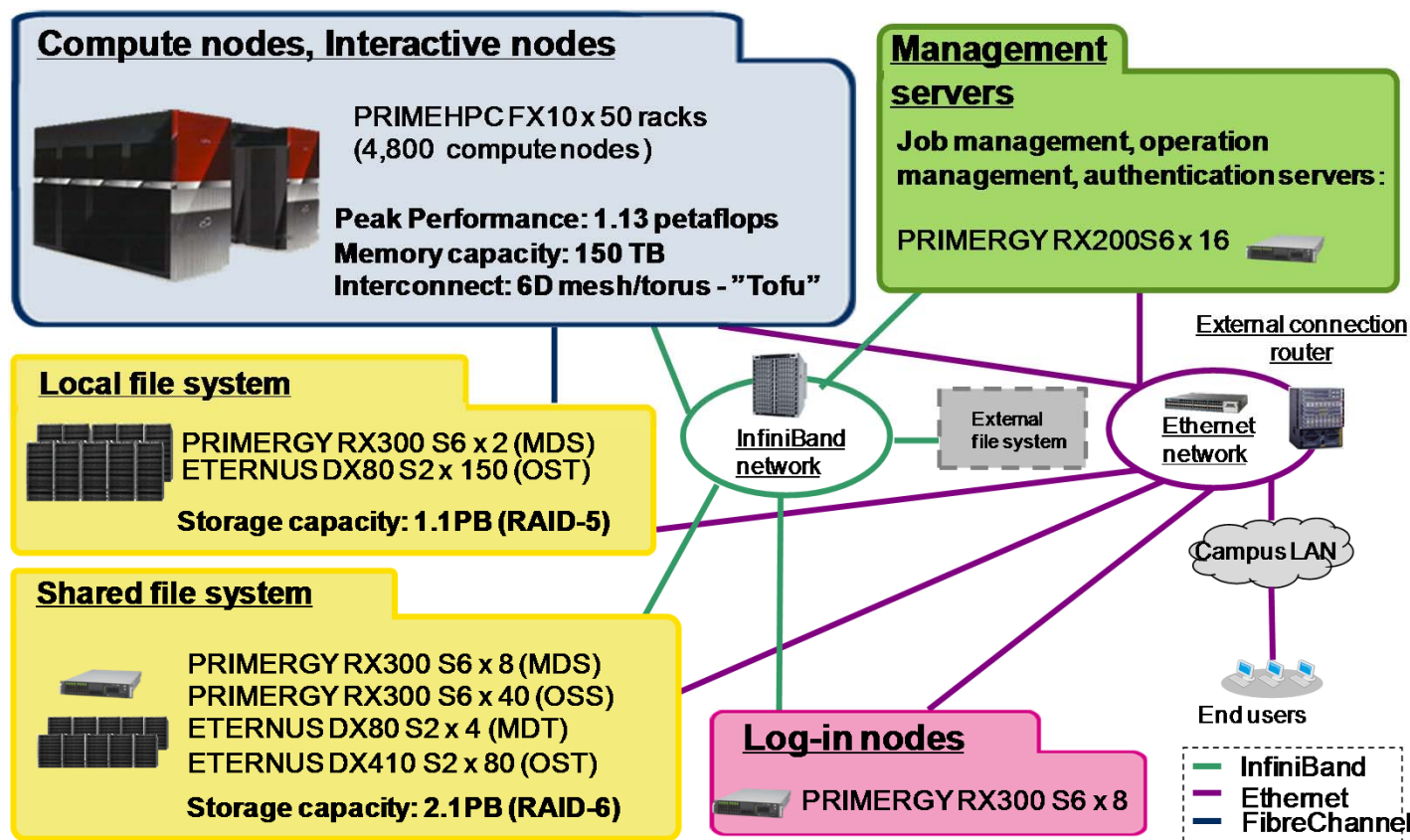
```
$ ssh t130**@oakleaf-fx.cc.u-tokyo.ac.jp
```

- Copying Files

```
$ scp file t130**@oakleaf-fx.cc.u-tokyo.ac.jp:~/.
```

- Public/Private Keys are used

- ▣ “Passphrase”, not “Password”



- Aggregate memory bandwidth: 398 TB/sec.
- Local file system for staging with 1.1 PB of capacity and 131 GB/sec of aggregate I/O performance (for staging)
- Shared file system for storing data with 2.1 PB and 136 GB/sec.
- External file system: 3.6 PB

Compilers

- Fujitsu (default)
- GNU
- Fujitsu Compilers are used in this course

Running Jobs

- How to run
 - batch-submission only
 - NO interactive mode
 - Normal users can use interactive nodes
- Procedures for running
 - preparing job-script
 - submitting jobs
 - checking job status
 - checking results
- Etc.
 - 16 cores of each node is occupied by each job
 - Other jobs cannot use cores of nodes occupied by other jobs

Manual etc.

- User Portal
 - <https://oakleaf-www.cc.u-tokyo.ac.jp/cgi-bin/hpcportal.en/index.cgi>

Please check schedule of maintenance

- Last Friday of each month
 - other non-regular shutdown
- <http://www.cc.u-tokyo.ac.jp/>
- <http://www.cc.u-tokyo.ac.jp/system/fx10/>

**If you have any questions,
please contact KN (Kengo
Nakajima)**

Do not contact ITC support directly.