How to login to Oakleaf-FX

Information Technology Center The University of Tokyo

How to Login (1/4)

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)

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)

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)

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
>$ |s -|
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/



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) - 0 X 🥑 Mozilla Firefox スタートページ 🛛 🗙 🖉 Oakleaf-FX User Portal × \ + ▼ C' Q 検索 https://oakleaf-www.cc.u-tokyo.ac.jp/cgi-bin/hpcportal.en/index.cgi ☆自↓ 俞 ∢ ❷ Ξ 🛛 よく見るページ 😥 Firefox 🦷 HPCG 🦷 乗換案内、時刻表、.... 國 bahn.de - Your onli... 🧻 isc wiki 🦳 Sparse Days 2015 📮 SWoPP Announce 🖸 ITCサイボウズ 💮 電気系サイボウズ 🕥 Home | BDEC 🍱 DFG - Deutsche For... 划 検索結果 - Google ... 🚺 PASC15 🗜 Workshop Exascale... 📧 ISP2S2 2014 🧑 Trend ツールバー・ **Oakleaf-FX User Portal** [English/lananes Login Login Enter user ID and password then click [Login] buttor a user ID: password: Reset Login 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 Copyright 2012-2014 FUJITSU LIMITED 😌 👯 📢 🌃 🏂 🞹 🚼 🗃 🐻 🐼 💽 🛵 🛞 📢 🔣 E 🏤 🧔 🔤 🥵 📆 🕯 🛛 • 5 連R般目 0 📖 🖓 🔩 🚱 h. 11:57

Registration of Public Key (3/3)

Cut & Paste: Public Key

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	Oakleaf-FX User Portal		2 Logout
ic Key	Login Message		
F	X10 (Oakleaf-FX) Unix at Information Technology Center, The University of Tokyo. Mon Apr 02, 2012) / oakleaf-fx.cc.u-tokyo.ac.jp.		
it	······································		
F	X10 (Oakleaf-FX) system will be SHUT DOWN on Fri May 29, 2015, at 9:00		
*	ystem will be STARTED on Fri May 29, 2015, at 17:00		
	IPC Challenge ervice will be started on Thu May 28, 2015, at 9:00		
v	vill 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/		
h	ittp://www.cc.u-tokyo.ac.jp/service/4800hpc/		
			Copyright 2012-2014 FUJITSU LIMITED

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Login

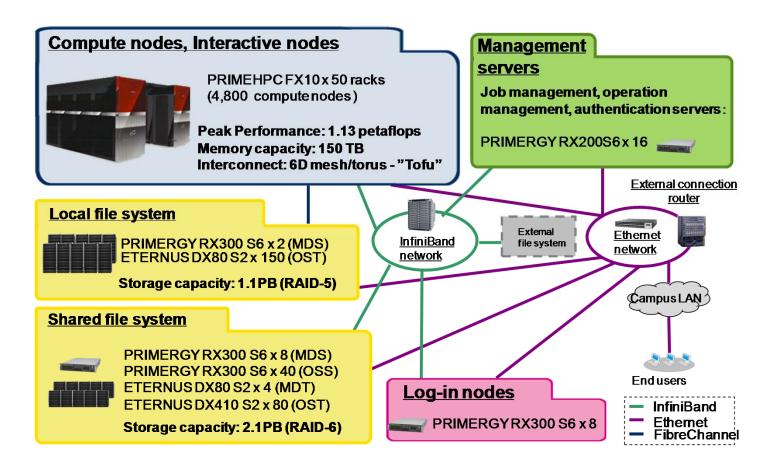
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🗆 Login

\$ ssh oakleaf-fx.cc.u-tokyo.ac.jp -l t950**
(or)

\$ ssh t950**@oakleaf-fx.cc.u-tokyo.ac.jp

- Copying Files
 \$ scp <file> t950**@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

If you want to login to Oakleaf-FX from your PC

- Login to ECCS 2012

 <u>https://ras.ecc.u-tokyo.ac.jp/guacamole/</u>
- If you put your "private key" on your PC, you can directly login to Oakleaf-FX.

Manual etc.

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

Please check schedule of maintenance

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

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

Do not contact ITC support directly.