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CERN

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twiki (**AtlasJapanCERNComputingForUsers**)

Rebooting policy

batch
node;disk 予告なしに再起動を&#
個人 デ クトップ 再起動

Jira

ToDo

定期行事

- 年に一度 CERN 電源 があよ
- 3月中旬頃に卒業案内をatut MLに配布
 - ◆ home, data, maxi,
eosなど お片付け 引継ぎ
- 年に一度程度 各大学やよ
 - ◆ 削除していいなら
 - ◇ /etc/passwd ... シェルを /sbin/nologin
に変更
 - ◇ home, data,
maxiなど WillDeleteDec2020など(Disk容量
- 過去 WillDeleteDec2019など ディレクよ
- eos 掃除

部屋

場所

- b188-5-007 ... 入っ 場所 広い部屋
- b188-5-009 ... 奥 部屋 狭い部屋

冷房

- 4つ イッチパネルがあり
 ◆ 空調 パワ 100kW
- 冷房1 ... UNF3-00792-B (入って右奥)
- 冷房2 ... UNF3-00792-D (入って左奥)
- 冷房3 ... UNF3-00792-C
 (奥 部屋に入って右)
- 冷房4 ... UNF3-00792-A
 (入って ぐ 場所 ...
 イッチが入らない)

電源バ

- 3つ 電源バ があり
 ◆ 1本が40A,
 3相 つ り 想的に 220V x 40A x 3相 x
 3本 = 220V x 360A = 79.2kV 電源 OK
 ◆ だし 3相な 負荷が同じ
- 電源バ 1 ... 入って右 壁 ...
 大元ブレ カ 中
- 電源バ 2 ... 入って左 壁 ...
 大元ブレ カ 左
- 電源バ 3 ... 奥 部屋 ...
 大元ブレ カ 右

ブレ カ

- 種類: 2種類あり
 ◆ 大元 ブレ カ :
 廊下に出て会議 部屋 &#x
 ◇ 会議 部屋 外 廊下側&#x
 ◆ 電源 ップ ブレ カ :
 それぞれ ラックに 背&#x

構成について

- ノ ドリ ト
 - ◆ SLC6: lxatutadm1:/root/etc/nodes.list
 - ◆ CERN cloud SLC6: lxatutadm1:/root/etc/Cloud/sync/nodes.list
 - ◆ CERN cloud CC7: lxatutadm1:/root/etc/cc7Cloud/sync/nodes.list
 - ◆ CC7: lxatutadm1:/root/etc/cc7/nodes.list
 - ◆ CERN cloud Alma9: lxatutadm1:/root/etc/alma9Cloud/nodes.list
 - ◆ Alma9: lxatutadm1:/root/etc/alma9/nodes.list
- 情報
 - ◆ lxatutadm1:/root/PClist.txt
- Disk情報
 - ◆ /home/atljphys/public/diskinfo.txt

Cron

- `各ディ クサ バ : Quota, ls-lR 実行, リカバリ クリプトなど (者 crontab -l)`
- `lxatutadm1: /etc/cron.daily/sync-nodes, backup.sh`
- `lxatutd011: /etc/cron.daily/adm1_backup, /etc/cron.weekly/adm1_backup_lslR`
- `lxatutbs1,bs3: condor crontan -l (設定ファイル自体 puppet さ condor /local/scratch バックアップ condorジつ`

Condor

- AtlasJapanCondorHowTo
 - iptables
 - lxatutbs1 root
- ```
/etc/init.d/iptables stop
chkconfig iptables off
```
- lxatutbs1
- exceed
- ```
MAX_JOBS_SUBMITTED
lxatutbs1 root
```
- ```
condor_restart
```
- ```
/etc/init.d/condor restart
```
- condor
- job log
 - condor node
 - ◆ lxatutadm1 root
 - ◆ ~condor/system/etc/local_config/
- ```
/etc/yum.repos.d/htcondor-stable.repo
lxatutb064)
```
- ```
~condor/system/etc/condor_alma9.addservice
```
- ```
~atljphys/public/aim2/scripts/setquota(_cloud).sh
```
- ◆ cloud machine

# User registration

- #6240;#5C5E;#5927;#5B66; #5148;#751F;#3084; #30C3;#30D5;#304B;#3084;
- root#6A29;#9650; lxatutadm1#306B;#30ED;#30B0;#30A4; #3057; /root/etc#306B;#3084;

./new\_user (username)

#8FFD;#52A0;

- ◆ y#3092;#4E00;#5EA6;#62BC; #5FC5;#8981;#304C;#3042;#308A;
- ◆ #30D7;#30E9;#30A4;#30DE;#30EA; #30B0;#30EB; #30D7;#304C;#3084;
- ◆ uid gid#3092;#6307;#5B9A; #304D;#308B;#30D0; #30B8;#30E7; #3084;
- ◆ df#3092;#4E00;#5EA6;#3057;#3066;#56FA; #3089;#306A;#3044;#3084;
- #30A2;#30AB;#30A6; #30C8;#304C; #304D; #3089;
- ◆ eos e-group: atlas-eos-access-group-tokyo#306B;#767B;#9332;
- (administrator #3057;#3066;#767B;#9332;#3055;#308C;#3066;#3044;#3084;
- ◇ #4E0A;#8A18; eos#304C;#5098;#4E0B;#306B;#3044;#308B; a
- ◆ /etc/passwd#3092;#7DE8;#96C6; #308B;
- ◇ #3044;#3064;#3054;#308D;#5352;#696D; #308B;#304B; #304
- #3048;#3070; ICEPP#6240;#5C5E; Tanaka
- Taro(2015#5E74;#306B;M2 #5834;#5408;) #5834;#5408; 5#
- Tanaka (TOKYO, M2-2015)#3000; #308B;
- ◆ AJ member google spread
- sheet#306B;#8FFD;#52A0; #308B; ( #306B; url #305B; #305B;#3084;
- /etc/passwd#306A;#3069; #6BCE;#671D;4#6642;(CERN#6642;#9593;)#306B;#3084;
- ◆ #7DCA;#6025; #5834;#5408; lxatutadm1
- /etc/cron.daily/sync-nodes#3092;#5B9F;#884C; #308B;
- home directory #5909;#66F4;
- (#6240;#5C5E; #8FFD;#8A18; #5FC5;#8981;#306A;#3089;#30B7;#30A7;#3084;
- ◆ /etc/passwd#3092;#7DE8;#96C6; #308B; #5168;#30B5; #30D0; #5909;
- #3092;#7121;#52B9;#306B; #308B;#5834;#5408; /etc/passwd #30ED;#3084;
- gid#304C;zp#3058;#3083;#306A;#3044;#5834;#5408;#306B; zp#306B;#3084;
- user\_name #308F;#304B;#308B;

# EOS

- `&#x30A2;&#x30AB;&#x30A6; &#x30C8;&#x304C; &#x304D; &#x3089; eos e-group:  
atlas-eos-access-group-tokyo&#x306B;&#x767B;&#x9332;`
- `&#x5404;`

```
$ /home/atljphys/eos/bin/eos-mkMYTokyoDir.sh
```

- `&#x3092;&#x5B9F;&#x884C;`
- `&#x4E0A;&#x8A18;&#x304C;&#x554F;&#x984C;&#x306A;&#x304F; &#x304D; &#x3089; /eos/atlas/u  
&#x3092;&#x4F7F; &#x53EF;&#x80FD;`
- `Quota 50 TB/person&#x7A0B;&#x5EA6;`

# New directory on maxi

- root &#x5BFE;&#x8C61; maxi&#x304C; &#x3063;&#x3066;&#x3044;&#x308B;&#x30B5; &#x30D0;
- mkdir &#x30C7;&#x30A3;&#x30EC;&#x30AF;&#x30C8;&#x30EA;&#x4F5C;&#x6210; &#x540D;&#x5
- chmod xxx.yyy direcotory\_name  
&#x6240;&#x6709;&#x8005; &#x8A2D;&#x5B9A; xxx.yyy&#x306B;&#x5165;&#x308B;UID GID /et
- lxatutadm1:/home/atljphys/public/diskinfo.txt &#x3092;&#x7DE8;&#x96C6;
- .tmp&#x4EE5;&#x4E0B;&#x306B;&#x30C7;&#x30A3;&#x30EC;&#x30AF;&#x30C8;&#x30EA;&#x304C

# File copy

&#x30C7;&#x30A3; &#x30AF;&#x30B5; &#x30D0; &#x5165;&#x308C;&#x66FF;&#x3048;&#x306A;&#x3069;  
NFS&#x8D8A;&#x3057;&#x3060; root&#x304C;&#x5168;&#x3066; &#x30D5;&#x30A1;&#x30A4;&#x30EB;&  
&#x305A; root &#x5148; &#x30DB; &#x30C8;&#x306B;&#x30ED;&#x30B0;&#x30A4;

DON'T login this machine.

&#x3088;&#x3046;&#x306A; &#x30C3;&#x30BB; &#x30B8;&#x304C;&#x8868;&#x793A;&#x3055;&#x308C;  
&#x4F8B;&#x3048;&#x3070;

- rsync -auv --delete -e ssh lxatutd141:/export/maxi141/atljphys/username /export/maxi

&#x308B; SSH&#x8D8A;&#x3057; &#x304C;&#x884C;&#x308F;&#x308C;&#x308B; &#x5F15;&#x657;  
&#x30DE; &#x30C9; &#x5F8C;&#x306B;

2>&1 | tee /dev/shm/logfile.txt

&#x3092;&#x3064;&#x3051;&#x3066;&#x30A8;&#x30E9; &#x304C;&#x8D77;&#x304D;&#x3066;&#x306A;&

# &#x30CF; &#x30C9;&#x30C7;&#x30A3; &#x30AF;&#x4EA4;&#x63DB; (Disk replacement)

## &#x65E5;&#x5E38; &#x76E3;&#x8996;&#x306A;&#x3069;

- &#x30CF; &#x30C9;&#x30C7;&#x30A3; &#x30AF;&#x304C;&#x58CA;&#x308C; &#x6642; &#x30C7;&#x30A3; &#x30AF; &#x30B5;&#x30A4;&#x30BA;&#x3092;&#x78BA;&#x8A8D;&#x4EE5; 4TB, 10TB or 14TB) 2TB&#x4EE5;&#x4E0B; &#x4EA4;&#x63DB; &#x30C7;&#x30A3; &#x30AF; &#x57F7;&#x4E88;&#x5099; &#x30C7;&#x30A3; &#x30AF;&#x304C;&#x306A;&#x304F;&#x306A;&#x30EB;&#x304C;&#x6765;&#x306A;&#x3044;&#x5834;&#x5408;&#x3082;&#x3042;&#x308B;
- &#x306B;&#x62C5;&#x5F53;&#x8005;(&#x6FA4;&#x7530;)&#x304C;lxatutadm1:/root/tmp/3ware sh ./CheckStatus.sh&#x3057;&#x3066; DEGRADED(&#x4F7F;&#x3048;&#x306A;&#x3044; &#x300C;&#x4ECA;&#x5F8C;&#x8ABF;&#x3079; ) SMART-FAILURE(HDD&#x304C;&#x8FD1;&#x3044;&#x306B;&#x30C7;&#x30A3; &#x30AF;&#x30B5; &#x30D0; &#x96F7;&#x4EA4;&#x63DB;&#x3057; HDD &#x5EC3;&#x68C4;&#x3057; &#x6249;&#x4ED8;&#x8FD1;&#x5EC3;&#x68C4;&#x3055;&#x308C; &#x30B5; &#x30D0; &#x306B;&#x642D;&#x8F09;&#x3055;&#x5DE6;&#x8FBA; = &#x518D;&#x5229; &#x308B;HDD&#x304C;&#x642D;&#x8F09;&#x3055;&#x308C;&#x3066;&#x53F3;&#x8FBA; = &#x308C;&#x304B;&#x3089;RAID&#x3092;&#x518D;&#x69CB;&#x7BC9; &#x308B;&#x30B5;&#x306B;&#x30ED;&#x30B0;&#x30A4; &#x3057;&#x8A72;&#x5F53; &#x308B;&#x30B5; &#x30D0; &#x306B;&#x30ED;&#x30B0;&#x30A4; &#x3057;&#x30DE;&#x30C9; &#x5834;&#x6240;&#x304C;

## &#x4EA4;&#x63DB;&#x4F5C;&#x696D; &#x5171;&#x901A; &#x30CF; &#x30C9;&#x30C7;&#x30A3; &#x30AF;&#x30B5; &#x30D0; &#x96F7;&#x4EA4;&#x63DB;&#x3057; HDD &#x5EC3;&#x68C4;&#x3057; &#x6249;&#x4ED8;&#x8FD1;&#x5EC3;&#x68C4;&#x3055;&#x308C; &#x30B5; &#x30D0; &#x306B;&#x642D;&#x8F09;&#x3055;&#x5DE6;&#x8FBA; = &#x518D;&#x5229; &#x308B;HDD&#x304C;&#x642D;&#x8F09;&#x3055;&#x308C;&#x3066;&#x53F3;&#x8FBA; = &#x308C;&#x304B;&#x3089;RAID&#x3092;&#x518D;&#x69CB;&#x7BC9; &#x308B;&#x30B5;&#x306B;&#x30ED;&#x30B0;&#x30A4; &#x3057;&#x8A72;&#x5F53; &#x308B;&#x30B5; &#x30D0; &#x306B;&#x30ED;&#x30B0;&#x30A4; &#x3057;&#x30DE;&#x30C9; &#x5834;&#x6240;&#x304C;

- &#x4EA4;&#x63DB;&#x6642;&#x306B;&#x30C7;&#x30A3; &#x30AF;&#x30B5; &#x30D0; &#x96F7;&#x4EA4;&#x63DB;&#x3057; HDD &#x5EC3;&#x68C4;&#x3057; &#x6249;&#x4ED8;&#x8FD1;&#x5EC3;&#x68C4;&#x3055;&#x308C; &#x30B5; &#x30D0; &#x306B;&#x642D;&#x8F09;&#x3055;&#x5DE6;&#x8FBA; = &#x518D;&#x5229; &#x308B;HDD&#x304C;&#x642D;&#x8F09;&#x3055;&#x308C;&#x3066;&#x53F3;&#x8FBA; = &#x308C;&#x304B;&#x3089;RAID&#x3092;&#x518D;&#x69CB;&#x7BC9; &#x308B;&#x30B5;&#x306B;&#x30ED;&#x30B0;&#x30A4; &#x3057;&#x8A72;&#x5F53; &#x308B;&#x30B5; &#x30D0; &#x306B;&#x30ED;&#x30B0;&#x30A4; &#x3057;&#x30DE;&#x30C9; &#x5834;&#x6240;&#x304C;

## 3ware

- 3ware 3DM2 alert -- host: lxatutd152.cern.ch&#x3000;&#x3042;&#x308B;&#x3044; &#x3000;LSI 3DM2 alert -- host: lxatutd144.cern.ch&#x3000; &#x3088;&#x3046;&#x306A; &#x30EB;&#x304C;&#x6765; &#x3089; R&#x8A72;&#x5F53; &#x308B;&#x30B5; &#x30D0; &#x306B;&#x30ED;&#x30B0;&#x30A4; &#x3057;&#x30DE;&#x30C9; &#x5834;&#x6240;&#x304C;

/opt/AMCC/CLI/tw\_cli /c0 show

RAID &#x72B6;&#x6CC1;&#x3092;&#x78BA;&#x8A8D;

- ◆ &#x30DE;&#x30C9; &#x5834;&#x6240;&#x304C;

/opt/3ware/CLI/tw\_cli

&#x5834;&#x5408;&#x3082;&#x3042;&#x308B; (&#x8CFC;&#x5165;&#x3057; &#x6642;&#x30C8;&#x30ED; &#x30E9; &#x756A;&#x53F7;(e.g.

- ◆ &#x30C8;&#x30ED; &#x30E9; &#x756A;&#x53F7;(e.g. /c0)&#x304C;&#x9055;&#x3046;&#x5834;&#x5408;&#x3082;&#x3042;&#x308B; (&#x4F8B;&#x3048;&#x3070; /c4) &#x9593;&#x9055;&#x3063; &#x756A;&#x53F7; &#x5834;&#x5408; &#x4F55;&#x3082;&#x30B5; &#x30D0; &#x306B;&#x4F9D;&#x5B58;&#x3057; &#x9593;&#x9055;&#x306B;&#x4EE5;&#x5916;(SMART-FAILURE, SMART-FAILURE)&#x304C;&#x51FA;&#x3066;&#x3044; &#x3089; &#x305D; &#x30C7;&#x30A3; &#x30CF; &#x30C9;&#x30C7;&#x30A3; &#x30AF;&#x4EA4;&#x63DB; (Disk replacement)

- `&#x4EA4;&#x63DB;&#x624B;&#x9806;`
    - ◆ `&#x8A72;&#x5F53; &#x308B;HDD&#x3092;&#x4EA4;&#x63DB; &#x308B;`
    - ◆ `&#x4EA4;&#x63DB;&#x3057; &#x30C7;&#x30A3; &#x30AF; &#x6700;&#x521D;Unit&#x304`
- ```

/opt/AMCC/CLI/tw_cli /c0 rescan

&#x3092; &#x308B;
(u?&#x304C;&#x6D88;&#x3048;&#x308B;    30&#x79D2;&#x5F85; +rescan&#x3092;&#x6570;

    ◇ show&#x3084;rescan &#x4F55;&#x5EA6;&#x884C;&#x3063;&#x3066;&#x3082;&#x304
◆ [&#x7D30;&#x5FC3; &#x6CE8;&#x610F;&#x304C;&#x5FC5;&#x8981;]
  &#x4ED6;&#x304C;u0,
u1&#x306A; &#x306B;&#x5BFE;&#x3057;&#x3066; &#x4EA4;&#x63DB;&#x3057; &#x30C

/opt/AMCC/CLI/tw_cli /c0/u2 del

&#x3092;&#x5B9F;&#x884C; (yes or
no&#x3092;&#x805E;&#x304B;&#x308C;      &#x518D;&#x5EA6;&#x6B63;&#x3057;&#x3

    ◇ &#x3060;&#x3057; &#x5143;&#x3005;u2&#x304C;&#x3042;&#x308B;&#x5834;&#x54
    ◇ &#x8AA4;&#x3063;&#x3066;&#x3082;&#x53D6;&#x308A;&#x8FD4;&#x3057;&#x304C;
◆ del&#x3092;&#x5B9F;&#x884C;&#x5F8C; &#x518D;&#x5EA6;

/opt/AMCC/CLI/tw_cli /c0 rescan

&#x3092;&#x5B9F;&#x884C; &#x308B; &#x81EA;&#x52D5;&#x7684;&#x306B;Rebuild&#x3
◆ &#x3044;&#x3064; &#x5F85;&#x3063;&#x3066;&#x3082;Rebuild&#x304C;&#x59CB; &#x308

/opt/AMCC/CLI/tw_cli maint rebuild c0 u1 p16

&#x3088;&#x3046;&#x306B;&#x3057;&#x3066;&#x624B;&#x52D5; &#x59CB; &#x308B; &#
p16

&#x4EA4;&#x63DB;&#x3057; &#x30ED;&#x30C3;&#x30C8;
◆ REBUILD&#x306B; 1&#x65E5;&#x4EE5;&#x4E0A;&#x304B;&#x304B;&#x308B; &#x3082;&#
/opt/AMCC/CLI/tw_cli /c0 show

RAID &#x72B6;&#x614B;&#x304C;REBUILDING&#x304B;&#x3089;OK&#x306B;&#x306A;&#
• HDD &#x5834;&#x6240;&#x304C; &#x304B;&#x3089;&#x306A;&#x3044;&#x5834;&#x5408;

/opt/AMCC/CLI/tw_cli /c0/p16 identify=on

&#x30B5; &#x30D0; HDD LED&#x3092;&#x70B9;&#x706F;(&#x70B9;&#x6EC5;)&#x3055;&#x30
• /opt/AMCC/CLI/tw_cli help, /opt/AMCC/CLI/tw_cli /c0 help

&#x306A;&#x3069; &#x3069;&#x3046;&#x3044;&#x3063; &#x547D;&#x4EE4;&#x304C;&#x4F7F;&#x

```

LSI RAID トロ ラ

- `lxatuthm2/hm3 LSI RAID トロ ラ を搭載`
 - `該当 るサ バ にログイ し`
- ```

/usr/local/MegaRAID\ Storage\ Manager\StorCLI/storcli64 /c0 show

```



- RAID    &#x72B6;&#x6CC1;&#x3092;&#x78BA;&#x8A8D; VD State&#x304C;Optl PD&#x304C;Onln
- PD State&#x304C;UBad&#x3084;OfIn&#x306A;&#x3089;&#x30C7;&#x30A3; &#x30AF;&#x4EA4;&#x
- &#x4EA4;&#x63DB;&#x624B;&#x9806;
  - ◆ &#x8A72;&#x5F53; &#x308B;HDD&#x3092;&#x4EA4;&#x63DB; &#x308B;
  - ◆ &#x4EE5;&#x4E0B; &#x30DE; &#x30C9; &#x518D;&#x69CB;&#x7BC9;&#x3092; &#x30C
- /usr/local/MegaRAID\ Storage\ Manager/StorCLI/storcli64 show rebuild
- &#x505C;&#x96FB;&#x5F8C;&#x306B;&#x30CF; &#x30C9;&#x30C7;&#x30A3; &#x30AF;&#x3092;&#x
- &#x3061;&#x3089;&#x3092;&#x53C2;&#x7167;

## Infortrend

- RAID Event&#x304B;&#x3089;&#x59CB; &#x308B; &#x30EB;&#x304C;&#x6765;&#x308B;
- &#x4EA4;&#x63DB;&#x624B;&#x9806;
  - ◆ &#x7570;&#x5E38;&#x3092;&#x793A;&#x3057;&#x3066;&#x3044;&#x308B;&#x30C7;&#x30A3
  - ◆ &#x901A;&#x5E38; &#x81EA;&#x52D5;&#x7684;&#x306B;Rebuild&#x304C;&#x59CB; &#x30
- &#x30C7;&#x30A3; &#x30AF;&#x3092;&#x53D6;&#x308A;&#x66FF;&#x3048;&#x3066;&#x3082;&#x
- array( "http://lxatutraid??" )&#x306B;&#x30A2;&#x30AF;&#x30BB; &#x3057;&#x3066; web
- UI&#x304B;&#x3089;Rebuild&#x3092;&#x59CB; &#x308B;
- ◆ PIN &#x6771;&#x4EAC; &#x540C;&#x3058;&#x3082;
- ◆ &#x3069; &#x30C7;&#x30A3; &#x30AF;&#x304B;&#x308F;&#x304B;&#x3089;&#x306A;&#x3

## &#x30BD;&#x30D5;&#x30C8;&#x30A6;&#x30A7;&#x30A2;RAID

- &#x3093;&#x306A;&#x30A8;&#x30E9; &#x30EB;&#xFF1A;DegradedArray event on
- /dev/md/2:lxatutvh05.cern.ch
  - ◆ md1 : active raid1 sdb1[1]
  - 204668800 blocks super 1.2 [2/1] [\_U]
  - bitmap: 2/2 pages [8KB], 65536KB chunk
- &#x5BFE;&#x51E6;&#x6CD5;
  - ( RAID1&#x3064; &#x308A;&#x30DF;&#x30E9; &#x30A4;&#x30D7; RAID &#x4F7F;&#x3063
  - ◆ &#x8A72;&#x5F53;&#x30DE;&#x30B7; &#x306B;root &#x30ED;&#x30B0;&#x30A4; &#x305
  - /proc/mdstat &#x78BA;&#x8A8D; &#x308B;
  - ◆ &#x3064;&#x304E;&#x306B; RAID&#x69CB;&#x6210;&#x3092;&#x8003;&#x3048;&#x3066;(&
  - /dev/md1 --add /dev/sda1 &#x3092;&#x5B9F;&#x884C; &#x308B;
  - ◆ &#x308C; &#x5931;&#x6557; &#x308B;&#x5834;&#x5408; HDD&#x304C;&#x58CA;&#x30

# &#x505C;&#x96FB;&#x6642; &#x4F5C;&#x696D; (Work for power cut)

- &#x505C;&#x96FB;&#x304C; &#x753B;&#x3055;&#x308C;&#x3066;&#x3044;&#x308B;&#x6642;&#x3055;&#x308C;&#x3066;&#x3044;&#x308B; fo  
◆ &#x5B9F;&#x969B; &#x4F5C;&#x696D; /root/bin/shutdownMachines.sh &#x884C;&#x3046; fo  
◆ CERN  
Cloud&#x3082;&#x7ACB;&#x3061;&#x4E0A;&#x304C;&#x3063;&#x3066;&#x3044;&#x308B; c  
◆ &#x843D; &#x9806;&#x756A;  
◇ 1. &#x6B21; &#x30CE; &#x30C9;  
· lxatutXX ... login&#x30CE; &#x30C9;  
· lxatutbXXX ... batch&#x30CE; &#x30C9;  
· lxatutbsX ...  
batch &#x30D8;&#x30C3;&#x30C9;&#x30CE; &#x30C9;(Condor &#x89AA; )  
· lxatutgpuXX ... GPU&#x30CE; &#x30C9;  
· winatutXX ... Windows&#x30CE; &#x30C9;  
· pcatutXX ... Project base &#x30CE; &#x30C9;  
· [CERN Cloud  
(lxatut30&#x4EE5;&#x964D; lxatutb400&#x4EE5;&#x964D;&#x304C;CERN&#x3082;&#x7ACB;&#x3061;&#x4E0A;&#x304C;&#x3063;&#x3066;&#x3044;&#x308B; c  
◇ 2. disk (lxatutdXXX)  
◇ 3. backup (lxatutbkupX)  
◇ 4. &#x30DB; &#x30E0; (lxatutadm1)  
· (&#x30DB; &#x30E0;&#x306B;&#x9650;&#x3063; &#x306A;&#x3044;&#x308B; shutdown  
&#x30DE; &#x30C9;&#x3092;&#x6253;&#x3064;&#x524D;&#x306B; df  
&#x3092;&#x3084;&#x3063;&#x3066;&#x307F;&#x308B; df  
&#x30DE; &#x30C9;&#x304C;&#x3071;&#x3063; &#x7D42;&#x4E86;&#x3082;&#x7ACB;&#x3061;&#x4E0A;&#x304C;&#x3063;&#x3066;&#x3044;&#x308B; NFS  
&#x30DE;&#x30A6; &#x30C8; &#x3064; &#x3063;&#x3066;&#x3044;&#x308B; umount -fl  
&#x30DE; &#x30C9; &#x5F37;&#x5236;&#x30A2; &#x30DE;&#x30A6; &#x3082;&#x7ACB;&#x3061;&#x4E0A;&#x304C;&#x3063;&#x3066;&#x3044;&#x308B; shutdown  
&#x3044;&#x3046;&#x624B;&#x7D9A;&#x304D;&#x3092; &#x308B;  
◇ 5. Infortrend &#x30C7;&#x30A3; &#x30AF;&#x30A2;&#x30EC; (lxatutraidXX)  
· Infortrend &#x30C7;&#x30A3; &#x30AF;&#x30A2;&#x30EC; &#x30AD;&#x3082;&#x308B; &#x30DE;&#x30CB; &#x30A2;&#x30EB; 6-29&#x306B;&#x5F93;&#x3046; &#x3082;&#x7ACB;&#x3061;&#x4E0A;&#x304C;&#x3063;&#x3066;&#x3044;&#x308B; (&#x52DD;&#x624B;&#x306B;&#x6B62; &#x308A; &#x3057;&#x306A;&#x3044;&#x308B; &#x30DE;&#x30CB; &#x30A2;&#x30EB;&#x4E2D; &#x9069;&#x5B9C;  
Password  
&#x3092;&#x6253;&#x3064;&#x5FC5;&#x8981;&#x304C;&#x3042;&#x308A;  
&#x6587;&#x5B57;&#x3092;&#x9078;&#x629E; Ent  
&#x6841; &#x79FB;&#x52D5; &#x5168;&#x6841;&#x3092;&#x3046;&#x3063;&#x3082;&#x7ACB;&#x3061;&#x4E0A;&#x304C;&#x3063;&#x3066;&#x3044;&#x308B; Ent&#x9577;&#x62BC;&#x3057; &#x78BA;&#x5B9A;  
◆ lxatutadm1 root&#x6A29;&#x9650; /root/tmp/DoExec\_for\_AllNodes.sh&#x3092;&#x4F7F;&#x3082;&#x7ACB;&#x3061;&#x4E0A;&#x304C;&#x3063;&#x3066;&#x3044;&#x308B; ssh \${loop} /sbin/shutdown -h 0:00 &  
&#x306A;&#x3069; &#x30DE; &#x30C9;&#x3092;&#x5B9F;&#x884C;  
◇ &#x30CE; &#x30C9; &#x30EA; &#x30C8; #MachineList  
◇ shutdown&#x3057;&#x3066;&#x3082;&#x306A;&#x304B;&#x306A;&#x304B;&#x843D;&#x3082;&#x7ACB;&#x3061;&#x4E0A;&#x304C;&#x3063;&#x3066;&#x3044;&#x308B; -fl &#x5F37;&#x5236;&#x7684;&#x306B;umount &#x308B;  
◆ Cloud &#x540C;&#x3058;&#x65B9;&#x6CD5; &#x843D; &#x305B;&#x308B; &#x843D;&#x3082;&#x7ACB;&#x3061;&#x4E0A;&#x304C;&#x3063;&#x3066;&#x3044;&#x308B; STATUS&#x304C;Active &#x3082; Filter&#x3057;&#x3082;&#x7ACB;&#x3061;&#x4E0A;&#x304C;&#x3063;&#x3066;&#x3044;&#x308B;

- ◇ ssh &#x843D; &#x305B;&#x306A;&#x304B;&#x3063; &#x3089;openstack&#x304B;&#x3063; LxAdm
  - Authorized-Users &#x3044;&#x3046;e-group&#x306B;&#x5165;&#x3063;&#x3066;&#x3063;
    - ssh aiadm.cern.ch
    - kinit
    - export OS\_PROJECT\_NAME="ATLAS-Tokyo Cluster service of data analysis"
    - openstack server stop lxatutb604
- &#x3088;&#x3046;&#x306A; &#x30DE; &#x30C9;&#x3092;loop&#x56DE;
  - ◇ CERN Cloud &#x30B5; &#x30D0; &#x64CD;&#x4F5C; (start/shutoff) web
    - &#x30A4; &#x30D5;&#x30A7; &#x304B;&#x3089;&#x3082;
    - (https://openstack.cern.ch/project/instances/🔗) &#x304D;&#x308B;
    - (&#x64CD;&#x4F5C; &#x4F8B;)
- &#x96FB;&#x6C17;&#x304C;&#x623B;&#x3063; &#x3089; &#x4E0A;&#x8A18; &#x9006; &#x9806;
  - ◆ &#x30D6;&#x30EC; &#x30AB; &#x304C;&#x4F55;&#x5EA6;&#x3082;&#x843D;&#x3061;&#x3063;
  - ◆ Infortrend &#x30C7;&#x30A3; &#x30AF;&#x30A2;&#x30EC; &#x4F55;&#x3082;&#x3057;&#x3063;
  - ◆ &#x96FB;&#x6E90;&#x30DC; &#x3092;&#x62BC;&#x3057;&#x3066;&#x8D77;&#x3063;
  - ◆ CERN
    - cloud &#x4EE5;&#x4E0B; &#x3088;&#x3046;&#x306B; &#x308B; LxAdm-Authorized-Users
      - ◇ ssh aiadm.cern.ch
      - ◇ kinit
      - ◇ export OS\_PROJECT\_NAME="ATLAS-Tokyo Cluster service of data analysis"
      - ◇ openstack server start lxatutb604
- &#x3088;&#x3046;&#x306A; &#x30DE; &#x30C9;&#x3092;loop&#x56DE;&#x3057;&#x3063;
  - ◆ CERN Cloud &#x30B5; &#x30D0; &#x64CD;&#x4F5C; (start/shutoff) web
    - &#x30A4; &#x30D5;&#x30A7; &#x304B;&#x3089;&#x3082;
    - (https://openstack.cern.ch/project/instances/🔗) &#x304D;&#x308B;
    - (&#x64CD;&#x4F5C; &#x4F8B;)
  - ◆ &#x7ACB;&#x3061;&#x4E0A;&#x3052;&#x7D42;&#x4E86;&#x5F8C;&#x306B; lxatutadm1 root
    - ◇ &#x30CE; &#x30C9; &#x30EA; &#x30C8;
    - &#x30AF;&#x30EA;&#x30D7;&#x30C8;&#x5185; &#x30EA; &#x30C8;&#x3063;
  - ◆ &#x6B63;&#x5E38;&#x7D42;&#x4E86;&#x3057;&#x306A;&#x304B;&#x3063; &#x5834;&#x5442;
    - ◇ &#x30DE;&#x30CB; &#x30A2;&#x30EB; fsc&#x3092;&#x304B;&#x3051;&#x306A;&#x3063;
    - /etc/fstab&#x3092;&#x307F;&#x3066;&#x554F;&#x984C; &#x3042;&#x308A;&#x3063;
    - 🔗&#x3092;&#x53C2;&#x8003;&#x306B;&#x4FEE;&#x5FA9; &#x3060;&#x3057;
    - &#x4F8B;&#x3048;&#x3070; fsc&#x3060;&#x3063; &#x308A; fsc&#x3060;&#x3063; &#x308A; fsc&#x3060;&#x3063;
    - ext3" &#x3088;&#x3046;&#x306A;&#x30AA;&#x30D7;&#x30B7;&#x30E7; &#x3063;



# &#x30BD; &#x30EB; (Raritan) &#x4F7F;&#x3044;&#x65B9;

- &#x30CE; &#x30C9; &#x9078;&#x629E;

"Scroll Lock"

&#x3092; &#x3070;&#x3084;&#x304F;2&#x56DE;&#x62BC;

- &#x30D8;&#x30EB;&#x30D7;&#x8868;&#x793A;:  
&#x30CE; &#x30C9;&#x9078;&#x629E;&#x753B;&#x9762;&#x306B;&#x3057;&#x3066;&#x304B;

F1

&#x3092;&#x62BC;

- &#x540D;&#x524D; &#x30BD; &#x30C8;:  
&#x30CE; &#x30C9;&#x9078;&#x629E;&#x753B;&#x9762;&#x306B;&#x3057;&#x3066;&#x304B;

F12

&#x3092;&#x62BC; F2 &#x30C1;&#x30E3; &#x30CD;&#x30EB; &#x30BD; &#x30C8;

- &#x30ED;&#x30B0;&#x30A2;&#x30A6;&#x30C8;:  
&#x30CE; &#x30C9;&#x9078;&#x629E;&#x753B;&#x9762;&#x306B;&#x3057;&#x3066;&#x304B;

F9

&#x3092;&#x62BC;

- &#x540D;&#x524D; &#x5909;&#x66F4;
  - ◆ &#x8A72;&#x5F53; &#x308B;&#x8AA4;&#x3063; &#x540D;&#x524D;&#x306B;&#x306A;&#x306E;
  - ◆ &#x305D; &#x72B6;&#x614B; &#x30CE; &#x30C9;&#x9078;&#x629E;&#x753B;&#x9762;
  - ◆ Channel Configuration&#x3092;&#x9078;&#x629E; &#x308B;
  - ◆ &#x8A72;&#x5F53; &#x30CE; &#x30C9;&#x3092;&#x9078;&#x629E;&#x3057;&#x3066;
  - ◆ ESC&#x3092;&#x62BC; &#x4FDD;&#x5B58; &#x308B;&#x304B;&#x3069;&#x3046;&#x304F;
  - ◆ ESC&#x3092;&#x4F55;&#x5EA6;&#x304B;&#x62BC;&#x305B;&#x3070; &#x5143; &#x72B6;

- &#x5B8C;&#x5168;&#x30EA;&#x30BB;&#x30C3;&#x30C8;
  - ◆ &#x30CE; &#x30C9;&#x540D;&#x304C;&#x7070;&#x8272; &#x304F;&#x3055;&#x3093;
  - ◆ [FUNC]&#x30DC; &#x3092;&#x62BC;&#x3057; [&#x4E0A;&#x77E2;&#x5370;]&#x30DC;
    - ◇ &#x30C7; &#x30D9; &#x3092;Clear &#x308B;&#x304B; &#x805E;&#x304B;&#x306E;

# File server decommission

&#x30D5;&#x30A1;&#x30A4;&#x30EB;&#x30B5; &#x30D0; &#x304C;&#x8981;&#x3089;&#x306A;&#x304F;

- lxatutadm1 /etc/auto.data&#x3092;&#x7DE8;&#x96C6;&#x3057;&#x3066;&#x8A72;&#x5F53;&#x884C;&
- lxatutadm1 /root/etc/sync-nodes  
&#x624B;&#x52D5; &#x540C;&#x671F; &#x308B;&#x304B; &#x671D;4&#x6642; &#x5F85;&#x30
- lxatutadm1 root&#x6A29;&#x9650; /root/tmp/DoExec\_for\_AllNodes.sh&#x3092;&#x4F7F;&#x3063;&#x30
- reload&#x3092;&#x5B9F;&#x884C;
- &#x8A72;&#x5F53;&#x30B5; &#x30D0; &#x3092;&#x6B62; &#x308B;
- /home/atljphys/public/diskinfo.txt&#x3092;&#x7DE8;&#x96C6;
- &#x3054;&#x307F;&#x7BB1;(Garbage bin for server  
materials)&#x3092;EDH &#x53D6;&#x308A;&#x5BC4;&#x305B;&#x3066;&#x5EC3;&#x68C4;
  - ◆ &#x76D7;&#x96E3;&#x3092;&#x907F;&#x3051;&#x308B; &#x304D;&#x308C;&#x3070;&#x30
  - ◆ &#x5EC3;&#x68C4; &#x308B;&#x30CF; &#x30C9;&#x30C7;&#x30A3; &#x30AF; &#x3046;&#x30
  - ◆ &#x5099;&#x54C1;&#x306B;&#x3064;&#x3044;&#x3066;
    - ◇ &#x5099;&#x54C1;&#x30B7; &#x30EB; &#x5168;&#x4F53; &#x5199;&#x771F;&#x30
    - ◇ &#x5099;&#x54C1;&#x30B7; &#x30EB;&#x3092;&#x7DBA;&#x9E97;&#x306B;&#x526
  - ◆ &#x30C7;&#x30A3; &#x30AF;&#x3092;&#x518D;&#x5229; &#x308B;&#x969B;&#x306B; &

# Package Cleanup

- [UPDATE] - FAILURE on lxatutXX.cern.ch

&#x3088;&#x3046;&#x306A; &#x30EB;&#x304C;&#x6765; &#x3089; package-cleanup&#x3092;&#x

- ◆ &#x500B;&#x5225;&#x306B;&#x5B9F;&#x884C; &#x308B;&#x5834;&#x5408;:  
&#x5404;node root&#x306B;&#x306A;&#x3063;&#x3066;

```
package-cleanup -y --oldkernels --count 2
```

&#x3092;&#x5B9F;&#x884C;

- ◆ &#x4E00;&#x6589;&#x306B;&#x5B9F;&#x884C; &#x308B;&#x5834;&#x5408;:

lxatutadm1 root&#x306B;&#x306A;&#x3063;&#x3066; /root/tmp/DoExec\_for\_AllNodes.sh &#x4

```
scp removeKernels.sh ${loop}:\nssh ${loop} /root/removeKernels.sh\nssh ${loop} rm -f removeKernels.sh
```

- ◆ Batch&#x4EE5;&#x5916;&#x306B;&#x3082;&#x8D70;&#x3089;&#x305B;&#x308B;&#x306A;&#x

```
for loop in `cat /root/etc/batch_list.txt`\n\nfor loop in `cat /root/tmp/nodes.list.all`\n
```

- ◆ &#x53E4;&#x3044;kernel&#x3092;&#x4F7F;&#x3063;&#x3066;&#x3044;&#x308B; &#x6D88;&#x3044;

- RPM &#x554F;&#x984C;&#x306A;&#x3044;&#x304C; /export&#x4EE5;&#x4E0B; &#x30C7;&#x30A3  
/var/log/yum-autoupdate.log

&#x306B;&#x95A2;&#x9023;&#x3057; &#x30A8;&#x30E9; &#x30C3;&#x30BB; &#x30B8;&#x304C;

```
?--x-wsrwx 4849302817095439445 1868771141 1953850738 122K Jan 1 1970 /export/maxi1
```

## Kickstart

- ~ shimpei/workspace/aims2 &#x306B;&#x5927;&#x5143; &#x30D5;&#x30A1;&#x30A4;&#x30EB;
    - ◆ ~/public/aim2
      - &#x306B;&#x82E5;&#x5E72;&#x65B0;&#x3057;&#x3044;&#x30D5;&#x30A1;&#x30A4;&#x30EB;
  - &#x5B9F;&#x884C;&#x4F8B;
    - ◆ CERN network&#x306B;&#x767B;&#x9332;
      - ◇ &#x767B;&#x9332;&#x3084;&#x5909;&#x66F4;
        - <https://network.cern.ch/sc/fcgi/sc.fcgi?Action=Main>
      - ◇ &#x4ED6; &#x30DB; &#x30C8; &#x4F8B;&#x3092;&#x898B;&#x3066;&#x540C;&#x306B;
      - ◇ &#x56FA;&#x5B9A;IP&#x3082;&#x767B;&#x9332; &#x308B;
      - ◇ Responsible Main
        - User &#x3057;&#x3066;&#x767B;&#x9332;&#x3055;&#x308C;&#x3066;&#x3044;&#x306B;
        - client&#x304C;&#x4F7F;&#x3048;&#x306A;&#x3044; &#xFF08;e-group &#x8A8D;&#x306B;
    - ◆ (optional)
      - &#x591A;&#x6570; &#x540C;&#x578B;&#x30DB; &#x30C8;&#xFF08;&#x30C7;&#x30A3; &#x306B;
    - ◆ kickstart
      - file&#x3092;&#x6E96;&#x5099; template&#x304C;&#x5404;&#x7A2E;&#x3042;&#x308B; &#x306B;
- ```
$ scripts/make-kickstart.py --template ks.tmpl --out-dir (some directory) --hostname (hostname)

$ scripts/make-kickstart.py --template ks.tmpl --out-dir (some directory) --hostname (hostname)
&#x306B;(hostname).ks &#x3044;&#x3046;&#x30D5;&#x30A1;&#x30A4;&#x306B;
&#x4E0A; (optional) &#x30D5;&#x30A1;&#x30A4;&#x30EB;&#x3092;&#x66F8;&#x306B;
(host names) &#x4EE3;&#x308F;&#x308A;&#x306B; --file (file path)
&#x5FC5;&#x8981; &#x3042;&#x308C;&#x3070;&#x4E2D;&#x8EAB;&#x3092;&#x3044;&#x306B;
&#x30D5;&#x30A1;&#x30A4;&#x30EB; &#x30C1;&#x30A7;&#x30C3;&#x30AF;
ksvalidator
&#x304D;&#x308B; &#x308C;&#x304B;&#x3089;&#x5165;&#x308C;&#x3088;&#x306B;
&#x9069;&#x5F53;&#x306A;linux&#x306B;login
(CC7 &#x65B9;&#x304C;&#x3044;&#x3044;&#xFF1F;) kinit

&#x308C; PXE
installation&#x304C;&#x4E88;&#x7D04;&#x3055;&#x308C;&#x308B; &#x30B2;&#x30C3;
install&#x304C;&#x59CB; &#x308B;
&#x305D; &#x3060; &#x30DB; &#x30C8;&#x3092;&#x518D;&#x8D77;&#x52D5; &#x306B;
&#x3060;&#x3057; PXE&#x304C;&#x30AA;&#x30D5;&#x306B;&#x306A;&#x3063;&#x306B;

$ aims2 delhost (hostname)

&#x5FC5;&#x8981;&#x306B;&#x5FDC;&#x3058;&#x3066;/root/etc/nodes.list,
/root/etc/desktop/nodes.list,
/root/etc/onlydata/nodes.list&#x7B49;&#x306B;&#x8FFD;&#x52A0; sync&#x7B49;&#x304C;&#x306B;
/etc/eos
&#x304C;&#x306A;&#x3044;&#x5834;&#x5408; &#x4F5C;&#x3089;&#x306A;&#x3044; &#x540C;&#x306B;
&#x30A4; &#x30C8; &#x30EB;&#x5F8C; home
directory&#x306A;&#x3069;&#x3092;&#x30DE;&#x30A6; &#x30C8; &#x308B;&#x306B; &#x306B;
/root/etc/sync-nodes (CC7&#x3060; /root/etc/cc7/sync-nodes)
&#x624B;&#x52D5; &#x540C;&#x671F; &#x308B;
&#x30DD; &#x30C8;&#x30A4; &#x30C8; &#x30EB;
&#x306B;&#x3042;&#x308B;&#x5BFE;&#x5FDC;
```



```

    &#x3092;&#x3057;&#x3066;&#x304B;&#x3089;&#x518D;&#x8D77;&#x52D5;
◇ mkdir /etc/eos
◇ /usr/bin/locmap --list
◇ /usr/bin/locmap --enable ssh
◇ /usr/bin/locmap --configure ssh
◇ /usr/bin/locmap --enable kerberos
◇ /usr/bin/locmap --configure kerberos
◇ /usr/bin/locmap --enable eosclient
◇ /usr/bin/locmap --configure eosclient
◇ systemctl restart sshd
◇ ~atljphys/public/aim2/scripts/cvmfs-install
◇ https://cern.service-now.com/$sp.do?id=kb_article&n=KB0009213
    &#x306B;&#x3042;&#x308B;&#x5BFE;&#x5FDC;&#x304C; &#x304D;&#x3066;&#x3044;
    --configure
    postfix &#x304D;&#x3066;&#x3044;&#x308B;&#x304B;&#x3082;&#x3057;&#x308C;&#x3057;
◇ /etc/aliases root &#x8EE2;&#x9001;&#x5148;&#x304C;&#x6B63;&#x3057;&#x3044;&#x3057;
◇ condor node&#x306B; &#x308B;&#x5834;&#x5408;
    · lxatutadm1 root&#x306B;&#x306A;&#x3063;&#x3066;&#x304B;&#x3089;&#x518D;&#x8D77;
    · ~condor/system/etc/local_config/
        &#x4E0B;&#x306B;&#x9069;&#x5F53;&#x306A;&#x8A2D;&#x5B9A;&#x30D5;
    · /etc/yum.repos.d/htcondor-stable.repo&#x3092;&#x3069; &#x304B;(i.e.
        lxatutb064)&#x304B;&#x3089;&#x53D6;&#x3063;&#x3066;&#x304D;&#x3066;&#x3044;
    · ~condor/system/etc/condor_cc7.addservice
◇ &#x30C7;&#x30A3; &#x30AF;&#x30DE;&#x30B7; &#x5834;&#x5408;
    · /etc/motd&#x3092;&#x4ED6; &#x30DE;&#x30B7; &#x540C;&#x69D8;&#x3066;
    · root crontab&#x3092;&#x4ED6; disk
        server &#x540C;&#x69D8;&#x306B;&#x8A2D;&#x5B9A;&#x3057; makeLSIRfile
◇ &#x4F5C;&#x696D; &#x30DE;&#x30B7; (lxatut??) &#x5834;&#x5408;
    · &#x975E;&#x30AF;&#x30E9;&#x30A6;&#x30C9;&#x30DE;&#x30B7; /local&#x3066;
    · ~atljphys/public/aim2/scripts/setquota.sh
    · &#x975E;&#x30AF;&#x30E9;&#x30A6;&#x30C9;&#x30DE;&#x30B7; /tmp&#x3066;
    · ~atljphys/public/aim2/scripts/setquota_tmpdir.sh
    · &#x30AF;&#x30E9;&#x30A6;&#x30C9;&#x30DE;&#x30B7; :
    · ~atljphys/public/aim2/scripts/setquota_cloud.sh
    · ( &#x308C; &#x5EC3;&#x6B62;)
        atljphys lxatut01&#x4EE5;&#x5916; &#x4ED6; &#x30DE;&#x30B7; crontab
        -l &#x5185;&#x5BB9;&#x3092;crontab -e &#x8FFD;&#x52A0;
◇ &#x3054;&#x304F; &#x306B; /etc/ssh/ &#x79D8;&#x5BC6;&#x9375;&#x30D5;&#x30D1;
    key &#x30D1; &#x30DF;&#x30C3;&#x30B7;&#x30E7; &#x306B;&#x3064;&#x3044;&#x3057;
    --gid 991 --system ssh_keys
        &#x5BFE;&#x5FDC;&#x3057;&#x3066;&#x3082;&#x3044;&#x3044;&#xFF08;GID &#x3066;
    -l /etc/ssh &#x78BA;&#x8A8D; &#x3079;&#x304D;&#xFF09;
◇ CPU governor&#x3092;&#x9069;&#x5F53;&#x306B;&#x304B;&#x3048;&#x308B; tuned
    profile powersave &#x304B; tuned-adm profile balanced
◇ &#x30D1; &#x30EF; &#x30C9;&#x7121;&#x3057; &#x30ED;&#x30B0;&#x30A4; &#x3066;
    -k
        &#x4ED6; &#x30DB; &#x30C8;&#x540D;&#x304C;&#x5165;&#x3063;&#x3066;&#x3066;
        &#x4F5C;&#x308A;&#x76F4;

```

CERN cloud

- CERN cloud atlas-eos-access-group-tokyo-admins
- CERN cloud aiadm.cern.ch
- export OS_PROJECT_NAME="ATLAS-Tokyo Cluster service of data analysis for ATLAS Japan"
- ai-bs --foreman-hostgroup atlcluster --alma9 --landb-responsible atlas-eos-access-group-tokyo-admins --nova-flavor m2.large --nova-sshkey atutcloudadmin hostname.cern.ch
- openstack volume create --size 40 volumename --type standard
- openstack server add volume hostname volumename
- root@lxatutadm1
- root
- /home /etc/systemd/system/home.service
- condor
- CERN cloud aiadm ai-kill hostname.cern.ch
- puppet: <https://gitlab.cern.ch/ai/it-puppet-hostgroup-atlcluster>
- 2023 CERN cloud puppet

- 各node /root/.forwardに転送先 ルアド全node 一斉に変更し い場全node /root/.forward \${loop}:/root/.forward
- /root/tmp/dot.forward 予 編集しておく
 - ◆ Cloud puppet root.ppを変更
- check_quota ル
 - ◆ lxatutadm1 /root/bin/chk_quotas.sh 設定
- warnquota ル
 - ◆ lxatutadm1および/data/dataXを置いておserver /etc/warnquota.conf を編集
- checknonquota ル
 - ◆ lxatutadm1 /data/dataxを積ん るサ バ/root/bin/checknonquota.py を編集
- CERN cloudから ル
 - ◆ atljcluster data/hostgroup/atljcluster.yamlを変更してcommit (masterブラ チ)
- 3wareから ル
 - ◆ /etc/3dm2/3dm2.conf を編集後 /etc/init.d/tdm2 restart
- Adaptecから ル
 - ◆ 各ノ ド /usr/StorMan/StorMan.shを実行
 - ◆ Configure ブからEmail Notificationsに行って ルアドレ
 - ◇ ERROR 十 だが 4台に1台ぐだWARNINGに る れ 部屋 温度
- Cron <root@pcatut02> /usr/bin/kinit -k いう ルが毎日来る
 - ◆ cronジョブ kinitを実行してお
 - ◆ りあえず /etc/cron.d/host-kinitを空にら
- Infortrend RAIDから ル
 - ◆ そ RAIDに直接ブラウ 接}
- UPS関連
 - ◆ root宛に送られる それが
 - ◆ 一部 ホ ト(d085, d105, d109) /etc/apcupsd/apccontrol b188-computing-room-monitoring@cern.chにもら

Infortrend RAID

NFS; lxatutadm1:/root/PClist.txt;

DNS
server;

00 ; (e.g.
00-32-D0-A1-73-01) ;
lxatutd151; baud
rate 9600; OK; putty ;
; ESC; Web;
2023;:baud
rate ;
(VT100)
;
putty
-serial ; /dev/ttyS0;

GPU machine

- lxatutgpu01, lxatutgpu02, lxatutgpu03 GPU programming
 - ◆ nvidia-smi GPU
 - ◇ nvidia-smi topo -m
 - ◆ NVLINK
 - ◆ GPU NVIDIA CUDA
- lxatutgpu01
 - ◇ /local/scratch 700GB
- lxatutgpu02
 - ◇ V100 (16GB) x 2
 - ◇ /usr/local/scratch 9TB
- lxatutgpu03
 - ◇ A6000 (48GB) x 6, Two GPUs are connected with NVLINK.

マシ ラ ニ グ with keras/tensorflow

- lxatutgpu01 02 03 GPU
が乗っている lplus やるよをの以下 マ ド localに入れ tensorflow/keras
\$ source /usr/local/tensorflow/bin/activate
\$ source /usr/local/cern/install/root-6.12.04_python3/bin/thisroot.sh
◆ PyTorch を使う場合
\$ source /usr/local/tensorflow_python36/bin/activate
◆ PyTorch
古いバ ジョ (0.3)を使う場合
\$ source /usr/local/tensorflow_python36_pytorch0.3/bin/activate
◆ GPUを使わない場合 特殊合
\$ cd /any/directory/you/make/an/environement
\$ virtualenv myenv -p /usr/bin/python3.6
\$ source myenv/bin/activate
\$ pip install -U pip wheel setuptools
\$ pip install tensorflow keras h5py theano pandas sklearn matplotlib
- ◆ もしGPU周り 怒られ らド合

```
<!--  
* ??????local???tensorflow/keras?????  
* virtualenv????????virtualenv????<verbatim>  
$ source /usr/local/tensorflow/bin/activate  
$ cp ~mmorinag/mnist_cnn.py ./  
$ chmod +x mnist_cnn.py  
$ ./mmorinag/mnist_cnn.py</verbatim>  
* virtualenv??????<verbatim>  
$ deactivate</verbatim>  
* ???  
-->
```

Conference room PC

- b188-5-011 パ : C0nfR00m(Year)

Temperature sensors

- [#6E29;#5EA6; #30C7;](#)
 - ✈ [#898B;#308B; #304C; #304D;#308B; #30DE; #30C8;#30D5;#30A9;](#)
 - ◆ ID: rbab7682
 - ◆ [#30D1; #30EF; #30C9;: lxatutondo](#)
- [#6E29;#5EA6; #30EA; #30C8; DHCP#304C;#3046; #304F;#3044;#304B;#304C;](#)
 - ◆ tmatut01
 - ◇ [#53F3;#5965;](#)
 - ◇ Registration code: 36935392
 - ◇ Serial: 52160AB7
 - ◇ MAC address: 00:0d:8b:05:0a:b7
 - ◇ IPv4: 128.141.214.242
 - ◇ Outlet: 0188-5:0007/10
 - ◇ Default gateway: 128.141.214.1
 - ◇ Subnet mask: 255.255.255.0
 - ◇ (Broadcast address: 128.141.214.255)
 - ◇ DNS servers: 137.138.16.5 and 137.138.17.5
 - ◆ tmatut02
 - ◇ DHCP [#904B; #4E2D;](#)
(dyndns[#304C;#540D;#524D;#306B;#4ED8;#304F;](#))
- [#8B66;#544A; b188-computing-room-monitoring@cern.ch#306B;#9001;#3089;#308C;#304C;](#)

Raspberry Pi

- Raspberry Pi (Model 4B, 8GB RAM + Camera module (no IR filter))

ノ ド名：rpiutokyo01.dyndns.cern.ch (wifi CERN networkに接続・IPアドレ 動的)ログイ ：lxatutadm1 rootになって ssh pi@rpiutokyo01NOSPAMPLEASE.dyndns.cern.ch（セキ リ ィ パ ワ ドログ現在 ろ冷房 イッチ トロ &

- **Switchbot**

- ◆ 冷房１・２・３(1が入0

```
cd ~/ac_control
./ac_control.sh (1|2|3)
```

- ◆ 電池 稼働 数年 持つ(?) "CR2 リチウム電池(3V)" 表が蓋
- **Live streaming**
 - ◆ 冷房１・２ トロ ルパネットワ ク内から
http://rpiutokyo01.dyndns.cern.ch:8000
アクセ 可能 わかりにづサ バ が起動していな

ネットワ ク

- HPからFS イッチ(lxatutsw50)へ 移行
(2024年5月18日)
 - ◆ S5850-24S2Q ポ ト23 24をLink
Aggregationして CERN-ITから ネットワ
◆ ポ ト1-22 通常運
- b188 マシ HP ProCurve
5412zl いう イッチ(lxatutsw10.cern.ch) CERN ネットワ
 - ◆ 歴史的な経緯 VLAN 名前 ROOM
 - ◆ ポ トA1/A2 Truckされていて CERN ネットワ
 - ◆ ログイ 名 admin
 - ◆ lxatutsw10 イッチ Web経由 Javeアプをて
 - ◆ lxatutsw10 telentアクセ 可能
- HP ProCurve
6600-48G-4XG lxatutsw24等 利 している
 - ◆ sw10 同じ 由 Web経由 アクセ
 - ◆ パ ワ ド み(ログイ 名無をて
 - ◆ RJ45が刺さる場所が2か所をて
 - ◆ ログイ 後 menu
いう マ ドを使えばいをて
- RC232 シリアル通信 設置 るをて
 - ◆ パ ワ ド ICEPP ッフに聞いをて
 - ◆ Windows にUSB RC232 変換デバイ をて
 - ◆ Linux も可能 screen /dev/ttyUSB0 9600
など OK 抜ける き ctrl-a してをて
◇ 各 イッチ 近所にシをて
 - ◆ gkterm いうソフトがLinuxに あをて
☞ オリジ ル
 - CentOS☞ (自己責任)

Various information

- disk `/home/atljphys/public/diskinfo.txt`
- PC `/root/Pclist.txt`

This topic: Main > AtlasJapanCERNComputing
Topic revision: r157 - 2024-05-19 - JunichiTanaka



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