Software Management

Router Setting

Setting MAC Address Control

- The MAC address filter is a powerful security feature that allows you to specify which computers are allowed on the wireless network.
- This list can be configured so any computer attempting to access the wireless network that is not specified in the filter list will be denied access.
- When you enable this feature, you must enter the MAC address of each client (computer) to which you want to allow network access.
- The "Block" feature lets you turn on and off access to the network easily for any computer without having to add and remove the computer's MAC address from the list.

FINDING MAC ADDRESS OF THE COMPUTER

1) For Windows: Open run window Then type "ipconfig/all"

2) For Unix : The instruction is "ifconfig"

Setting up an Allow Access List

- 1. Select the "Allow" radio button to begin setting up a list of computers allowed to connect to the wireless network.
- 2. Next, in the "MAC Address" field that is blank, type in the MAC address of the wireless computer you want to be able to access the wireless network, then click "<<Add".
- 3. Continue to do this until all of the computers you want to add have been entered.
- 4. Click "Apply Changes" to finish.

MAC ADDRESS CONTROL

Mac Address Control is the ability to set up a list of clients that you want to allow or deny access to the wireless network. More Info



Password = scram root password

RESTARTING THE ROUTER

- Sometimes it may be necessary to restart or reboot the router if it begins working improperly.
- Restarting or rebooting the router will NOT delete any of your configuration settings.

Restarting the Router to Restore Normal Operation

1. Go to the UTILITIES page.

2. Click the "Restart Router" button.

The following message will appear. Click "OK".



The following message will appear. Restarting the Router can take up to 60 seconds. It is important not to turn off the power to the Router during the restart.



A 60-second countdown will appear on the screen.
 When the countdown reaches zero, the Router will be restarted

Software installation



- **1. Tecplot 360**
- 2. GridgenV15
- 3. Emacs
- 4. Printer Installation (HP 1505 Laserjet)

TECPLOT 360

Minimum System Requirements for Tecplot360

- 1. System Requirements -A minimum of 250 MB of disk space and 1 GB of RAM.
- 2. Graphics Requirements -An OpenGL®-accelerated card.
- 3. Display Requirements -A minimum resolution of 1024 x 768.
- 4. Supported Platforms-Windows, Linux

Tecplot Installation in Linux

- 1. Download tec360(tar.gz) form this link https://galaxy.iitb.ac.in/pub/Software/Tec360/tec360.ta r.gz
- 2. Save the file.
- 3. Extract the file using # tar xzf tec360.tar.gz
- 4. Goto tec360/unix directory
- 5. Change the file permissions using the below command #chmod a+x setuptec

- 6. Execute the # ./setuptec
- 7. Give path for installation directory # /usr/local/tec360
- 8. Select the option 1
- 9. Select your OS and version Note: command to find os version #uname -r
- **10.** Select the option **3** "Skip the license manager"
- 11. Download tec360 executable for accessing license (Copy this link and save it http://www.aero.iitb.ac.in:8081/~velan/Troubleshootin g/tec360) tec360

- 12. Rename the tec360.htm to tec360 # mv tec360.htm tec360
- 13. Move the tec360 file to given path # mv tec360 /usr/local/bin or /usr/bin
- 14. Goto /usr/local/bin # chmod a+x tec360

15. Add the below lines in your .bashrcfile using this command #vi .bashrc export TLMHOST=@galaxy.iitb.ac.in export TEC360HOME=/home/local/tec360 export TLMHOST=@tecplot.iitb.ac.in export TEC360HOME=/usr/local/tec360

- 16. Save and exit from the file
- 17. Run the this command in terminal #. .bashrc

18. Type tec360 form command prompt for execute tech360 #tec360

Tecplot installation in Windows

- 1.Download Tecplot from this link https://galaxy.iitb.ac.in/pub/Software/Tec360/tec360.ta r.gz
- 2.Extract the tec360.tar.gz file using winrar
- **3.Open the folder tec360 and go windows directory**
- **4.Double click the setup.exe file**
- **5.Select license type "select network license"**
- 6.Type galaxy.iitb.ac.in for accessing license press tab to activate next button
- 7.Double click the Tecplot360 in desktop to open tecplot



Minimum system requirements for GridgenV15 Installation

- 100 Mbytes disk space
- OpenGL capable color display
- Ethernet card
- CD-ROM drive
- 128 Mbytes RAM

Gridgen Installation on server

- Depending on Linux OS configuration download tar ball from http://www.pointwise.com/support/dload.shtml
- Untar the tar file as a root #tar -xvzf gg-linux_x86_64.tar.gz
- Move the dir. Created to /usr/local/ and go to the dir. #mv GridgenV15 /usr/local/ #cd /usr/local/GridgenV15
- Run the License manager #./LICENSE_CONTROL.SH
- Press 'f' to import license and give the license file path, when asked
- Press 'c' to start license manager

Gridgen Installation on server

- Press 'e' to check status
- Press 'x' to exit license manager
- Cmd To run gridgen by any user \$/usr/local/Gridgen15/gridgen &

Gridgen Installation on clients

- Follow first 3 steps as explained in server installation
- Logged in as root in server m/c, Scp the license file from server machine to client m/c. #scp /usr/local/GridgenV15/licenses/pointwise_flexnet.lic root@client:/usr/local/GridgenV15/licenses/
- Run the License manager #./LICENSE_CONTROL.SH
- Press 'c' to start the license manager
- Press 'e' to check status
- Press 'x' to exit license manager
- Cmd To run gridgen by any user \$/usr/local/Gridgen15/gridgen &



Emacs Installation

- Download link for emacs
- http://www.gnu.org/software/emacs/emacs.html
- Use the below command to installs emacs
- Extract the file and
- Move to the extracted directory
- Use the below command to install emacs
- ./configure; make; make install;
- Use the below command for install RPM file
- rpm –Uvh emacs.rpm

Printer installation (HP)

Printer driver Installation

- Download driver tar balls, depending on your printer model- http://foo2zjs.rkkda.com/
- Extract the tar file and goto the extracted dir. (as root) #tar zxf foo2zjs.tar.gz #cd foo2zjs
- Run the commands seqentially #make #make install
 #make install-hotplug
 (Plug the usb printer to the m/c or replug if already
 plugged in)
 #make cups (to install Common unix printing system)

- Run cmd as a root #system-config-printer &
- Following screen will appear (Example: HP 1505 installation on scram2)

| Applications | Places System 🥹 🏽 | s 🔍 🗟 🎯 🖻 💹 🙆 🤅 | | _ | | (1) | 6:08 PM |
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| | | | Printer configurat | ion - localhost (on scram2.a | aero.iitb.ac.in) | | - 0 × |
| <u>File</u> <u>E</u> dit <u>H</u> elp | | | | | | | |
| New Printer Ne | w Class Copy | Delete Goto Serve | er Refresh | | | | |
| Server Settir | Settings Policies A | ccess control Printer C | ptions Job Options | | | | |
| ✓ Local Printers | Settings | | | | | | |
| HP_LaserJe | Description: | HP Laserjet P1505 | | | | | |
| | Location: | scram2.aero.iitb.ac.in | | | | | |
| | Device URI: | hp:/usb/HP_LaserJet_P | 1505?serial=CA2772Q | | | | Change |
| | Make and Model: | HP LaserJet P1505 Foo | matic/foo2xqx (recommend | ied) | | | Change |
| | Printer State: | Idle | | | | | |
| | State ☑ Enabled | Default Printer | | | | | |
| | | Make Default Print | | | | | |
| | Accepting jobs Shared | This is the default | printer | | | | |
| | | Print Test Page | | | | | |
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| Connected to loc | alhost | | | | | | |
| 🥩 [Downlo | ads] 🛛 🛤 vighnesh | @scra 🗳 scramj_grid | _co 🗟 isro_aug2010 | 🗖 Printer configu | | | |

• Select the New printer option

• Select the printer connection type

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| | New Printer | - 9 × |
| Select Connection | Description | |
| Devices | HPLIP software driving a printer, or the printer function of a multi-function device. | |
| HP LaserJet P1505 USB CA2772Q HPLIP | | |
| Serial Port #1 | | |
| Windows Printer via SAMBA | | |
| AppSocket/HP JetDirect | | |
| Internet Printing Protocol (ipp) | | |
| LPD/LPR Host or Printer | | |
| Other | | |
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• Select the printer manufacturer from the list

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| | New Printer | | × |
| Select Printer from database | | | |
| The foomatic printer database contains various mar in general manufacturer provided PPD files provide | ufacturer provided PostScript Printer Description (P better access to the specific features of the printer. | PD) files and also can generate PPD files for a large nun | nber of (non PostScript) printers. But |
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| Cltoh | | | |
| Compaq | | | |
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| Heidelberg | | | |
| Hitachi | | | |
| HP | | | |
| IBM | | | |
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| Infotec | | | |
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| KONICA | | | |
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| Lanier | | | |
| Lexmark | | | |
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| PostScript Printer Description (PPD) files can often f | und on the driver disk that comes with the printer | For PostScript printers they are often part of the Wind | ows® driver |
| (None) | | for rostoenpe printers they are often part of the wind | Sw5 driver. |
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Select the printer model and recommended driver from the list

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| | New Printer | | _ & × |
| Models | | | |
| Laserlet M4345 MFP | | | |
| Laserlet M5025 MFP | | | |
| Laserlet M5035 MFP | | | |
| Laserlet P1005 | | | |
| Laserlet P1006 | | | |
| LaserJet P1007 | | | |
| LaserJet P1008 | | | |
| LaserJet P1505 | | | |
| LaserJet P1505n | | | |
| LaserJet P2014 | | | |
| LaserJet P2014n | | | |
| LaserJet P2015 | | | |
| LaserJet P2035 | | | |
| LaserJet P2035n | | | |
| LaserJet P3004 | | | |
| Drivers | | | |
| 3-distribution/foo2zis/HP-Laserlet_P1505.ppd.gz (recommended) | | | |
| HP-Laserlet P1505.ppd.gz | | | |
| Isb/usr/foo2zjs/HP-Laserlet_P1505.ppd.gz | | | |
| foomatic:HP-LaserJet P1505-foo2xqx.ppd | | | |
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| Comments: Printer Driver PPD | | | |
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Enter the Printer name in the index

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| New Printe | er | _ 9 × |
| Printer Name | | |
| May contain any printable characters except "/", "#", and space | | |
| HP_LaserJet_P15051 | | |
| Description (optional) | | |
| Human-readable description such as "HP LaserJet with Duplexer" | | |
| | | |
| Location (optional) | | |
| Human-readable location such as "Lab 1" | | |
| scram2 aero iith ac in | | |
| Scruttz.dero.ntb.de.in | | |
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By clicking 'forward' printer will be created in the list

Network Information Service and Network File System (NFS)

NFS server setup

 Edit and include following lines in /etc/exports file as a root (Example of scram m/c)

#directory machine-name(option1,option2,option3)

/home 10.101.11.73(rw,sync,no_root_squash)
/home 10.101.11.74(rw,sync,no_root_squash)
/home 10.101.11.75(rw,sync,no_root_squash)
/home 10.101.11.76(rw,sync,no_root_squash)
/home 10.101.11.77(rw,sync,no_root_squash)
/home 10.101.11.79(rw,sync,no_root_squash)
/home 10.101.5.38(rw,sync,no_root_squash)

 directory -> the directory that you want to share. It may be an entire volume though it need not be. If you share a directory, then all directories under it within the same file system will be shared as well.

NFS server setup

- machine-name -> client machines that will have access to the directory. The machines may be listed by their DNS address or their IP address
- optionxx -> the option listing for each machine will describe what kind of access that machine will have
- Reboot the server
- After boot up run the command to check NFS is running or not #rpcinfo quota

NFS client setup

 Edit and include following line in /etc/fstab file, as a root (Example of scram4 m/c)

#device mount-point fs-type options dumb fsckorder 10.101.11.78:/home /home nfs defaults 0 0

Reboot the client machine

NFS client setup

 Edit and include following line in /etc/fstab file, as a root (Example of scram4 m/c)

#device mount-point fs-type options dumb fsckorder 10.101.11.78:/home /home nfs defaults 0 0

 Mount the NFS directory on the client # mount -a

NIS user on server

For adding user (Perform on server:-scram):

useradd -g users <nisuser> # passwd <nisuser> Changing password for user nisuser. New password: Retype new password: passwd: all authentication tokens updated successfully. # cd /var/yp # make gmake[1]: Entering directory `/var/yp/scram' Updating passwd.byname... Updating passwd.byuid... Updating netid.byname... gmake[1]: Leaving directory `/var/yp/scram' *#* service ypbind restart

For checking :

ypmatch <nisuser> passwd <nisuser>:\$1\$d6E2i79Q\$wp3Eo0Qw9nFD/::504:100::/home/<nisuser> :/bin/bash

For removing nisuser:

Follow the step same as removing the normal user



For setting up quota for nisuser:

edquota <nisuser>

For quota check:
quota <nisuser>

NIS on client

For NIS failure on client, run on client:

service ypbind restart

Cluster Management

CONTENTS

- Boot up
- Shutting down
- Monitoring

Booting Up hyperx

- Sequence
 - Boot up hyperx nas node
 - Boot up hyperx head node
 - Boot up compute nodes

SHUTING DOWN

- To shut down all the running compute nodes and nas node run cmd as a root #rocks run hosts poweroff
- Then shutdown head node using #poweroff cmd
- To shutdown only selected compute nodes run the cmd as a root (for example shuting down comput-1-1 compute-1-2 compute-1-3) #for i in 1 2 3 ; do ssh compute-1-\$i '/sbin/shutdown -h now' ; done

Cluster monitoring

- Commands for queue status \$showq \$qstat [-a] [-n] \$pbsnodes [-a] [-l]
- Commands to restart gmond and gmetad deomons (this deomons are necessary for web based cluster monitoring) #rocks run host "service gmetad restart" #rocks run host "service gmond restart"
- For web based cluster monitoring, visit web site http://hyperx.aero.iitb.ac.in/

[nithiyaraj@hyperx SIM OSW PRAC]\$ showq ACTIVE JOBS------STATE PROC REMAINING JOBNAME USERNAME STARTTIME rajhansa Running 32 1:51:44 Thu Sep 2 11:30:45 amjad Running 16 10:37:12 Thu Sep 2 10:16:13 6177 6176 2 Active Jobs 48 of 48 Processors Active (100.00%) 8 of 8 Nodes Active (100.00%) TDLF .10BS------JOBNAME USERNAME STATE PROC WOLIMIT OUEUETIME 0 Idle Jobs BLOCKED JOBS-----USERNAME STATE PROC WCLIMIT JOBNAME QUEUETIME 6175 nithiyaraj Deferred 20 12:00:00 Thu Sep 2 10:07:36 Total Jobs: 3 Active Jobs: 2 Idle Jobs: 0 Blocked Jobs: 1 [nithiyaraj@hyperx SIM OSW PRAC]\$

[nithiyaraj@hyperx SIM_OSW_PRAC]\$ qstat -n

hyperx.aero.iitb.ac.in:

Rea'd Rea'd Elap Job ID Jobname SessID NDS TSK Memory Time S Time Username Queue 6175.hyperx.aero nithiyar dual job.sh -- 12:00 0 --5 --- -6176.hyperx.aero amjad dual 5284 STDIN -- 12:00 R 01:44 4 -compute-0-3/3+compute-0-3/2+compute-0-3/1+compute-0-3/0+compute-0-2/3 +compute-0-2/2+compute-0-2/1+compute-0-2/0+compute-0-1/3+compute-0-1/2 +compute-0-1/1+compute-0-1/0+compute-0-0/3+compute-0-0/2+compute-0-0/1 +compute-0-0/0 6177.hyperx.aero rajhansa quad job.sh 11304 4 ---- 02:00 R 00:30 compute-1-4/7+compute-1-4/6+compute-1-4/5+compute-1-4/4+compute-1-4/3 +compute-1-4/2+compute-1-4/1+compute-1-4/0+compute-1-3/7+compute-1-3/6 +compute-1-3/5+compute-1-3/4+compute-1-3/3+compute-1-3/2+compute-1-3/1 +compute-1-3/0+compute-1-2/7+compute-1-2/6+compute-1-2/5+compute-1-2/4 +compute-1-2/3+compute-1-2/2+compute-1-2/1+compute-1-2/0+compute-1-1/7 +compute-1-1/6+compute-1-1/5+compute-1-1/4+compute-1-1/3+compute-1-1/2 +compute-1-1/1+compute-1-1/0 [nithiyaraj@hyperx SIM OSW PRAC]\$

```
[nithiyaraj@hyperx ~]$ pbsnodes -a
compute-0-0
state = job-exclusive
np = 4
ntype = cluster
jobs = 0/6191.hyperx.aero.iitb.ac.in, 1/6191.hyperx.aero.iitb.ac.in, 2/6191
.hyperx.aero.iitb.ac.in, 3/6191.hyperx.aero.iitb.ac.in
```

status = opsys=linux,uname=Linux compute-0-0.local 2.6.18-128.1.14.el5 #1 S
MP Wed Jun 17 06:38:05 EDT 2009 x86_64,sessions=6455 6474 6493 6512,nsessions=4,
nusers=1,idletime=138107,totmem=25020172kb,availmem=24029112kb,physmem=4047324kb
,ncpus=4,loadave=3.69,netload=48136485425,state=free,jobs=6191.hyperx.aero.iitb.
ac.in,varattr=,rectime=1283504252

```
compute-0-1
state = job-exclusive
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```
np = 4
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```
ntype = cluster
```

jobs = 0/6191.hyperx.aero.iitb.ac.in, 1/6191.hyperx.aero.iitb.ac.in, 2/6191 .hyperx.aero.iitb.ac.in, 3/6191.hyperx.aero.iitb.ac.in

status = opsys=linux,uname=Linux compute-0-1.local 2.6.18-128.1.14.el5 #1 S
MP Wed Jun 17 06:38:05 EDT 2009 x86_64,sessions=6603 6622 6641 6660,nsessions=4,
nusers=1,idletime=137961,totmem=25020172kb,availmem=23933872kb,physmem=4047324kb
,ncpus=4,loadave=3.40,netload=92564797543,state=free,jobs=6191.hyperx.aero.iitb.
ac.in,varattr=,rectime=1283504255

```
compute-1-5
     state = down
     np = 8
     ntype = cluster
compute-1-6
     state = down
     np = 8
     ntype = cluster
compute-1-7
     state = down
     np = 8
     ntype = cluster
compute-1-8
     state = down
     np = 8
     ntype = cluster
compute-1-11
     state = down
     np = 8
     ntype = cluster
```

| [nithiyaraj@hyperx | ~]\$ | pbsnodes | -1 |
|--------------------|------|----------|----|
| compute-0-4 | do | wn | |
| compute-0-5 | do | wn | |
| compute-0-6 | do | wn | |
| compute-0-7 | do | wn | |
| compute-0-8 | do | wn | |
| compute-0-9 | do | wn | |
| compute-0-10 | do | wn | |
| compute-0-11 | do | wn | |
| compute-0-12 | do | wn | |
| compute-0-13 | do | wn | |
| compute-0-14 | do | wn | |
| compute-0-15 | do | wn | |
| compute-0-16 | do | wn | |
| compute-0-17 | do | wn | |
| compute-0-18 | do | wn | |
| compute-1-0 | do | wn | |
| compute-1-5 | do | wn | |
| compute-1-6 | do | wn | |
| compute-1-7 | do | wn | |
| compute-1-8 | do | wn | |
| compute-1-11 | do | wn | |
| compute-1-12 | do | wn | |
| compute-1-13 | do | wn | |
| compute-1-14 | do | wn | |
| compute-1-15 | do | wn | |
| compute-1-9 | do | wn | |
| compute-1-10 | do | wn | |
| [nithiyaraj@hyperx | ~]\$ | | |

| [nithivaraj@hyperx | ~]\$ pbsnodes -l | all |
|--------------------|------------------|-----|
| compute-0-0 | iob-exclusive | |
| compute-0-1 | job-exclusive | |
| compute-0-2 | job-exclusive | |
| compute-0-3 | job-exclusive | |
| compute-0-4 | down | |
| compute-0-5 | down | |
| compute-0-6 | down | |
| compute-0-7 | down | |
| compute-0-8 | down | |
| compute-0-9 | down | |
| compute-0-10 | down | |
| compute-0-11 | down | |
| compute-0-12 | down | |
| compute-0-13 | down | |
| compute-0-14 | down | |
| compute-0-15 | down | |
| compute-0-16 | down | |
| compute-0-17 | down | |
| compute-0-18 | down | |
| compute-1-0 | down | |
| compute-1-2 | free | |
| compute-1-3 | job-exclusive | |
| compute-1-4 | job-exclusive | |
| compute-1-5 | down | |
| compute-1-6 | down | |
| compute-1-7 | down | |
| compute-1-8 | down | |
| compute-1-11 | down | |
| compute-1-12 | down | |
| compute-1-13 | down | |
| compute-1-14 | down | |
| compute-1-15 | down | |
| compute-1-9 | down | |
| compute-1-10 | down | |
| compute-1-1 | do <u>w</u> n | |
| [nithiyaraj@hyperx | ~]\$ | |

```
[nithiyaraj@hyperx ~]$ pbsnodes -l active
                     job-exclusive
compute-0-0
                     job-exclusive
compute-0-1
                     job-exclusive
compute-0-2
                     job-exclusive
compute-0-3
                     job-exclusive
compute-1-3
                    job-exclusive
compute-1-4
[nithiyaraj@hyperx ~]$
[nithiyaraj@hyperx ~]$ pbsnodes -l up
                     job-exclusive
compute-0-0
                     job-exclusive
compute-0-1
                     job-exclusive
compute-0-2
                     job-exclusive
compute-0-3
compute-1-2
                     free
compute-1-3
                     job-exclusive
                    job-exclusive
compute-1-4
[nithiyaraj@hyperx ~]$
```

Killing the jobs

To kill others job

#qdel -p [job id]

• To kill own job as user

\$qdel [job id]

end