



# **Intro to USQ HPC Services**

## **USQ HPC Admin Staff**

**Jayish Lal Manager, (Enterprise Infrastructure)**

**Richard Young, HPC Systems Engineer**

**Russell Waldron, HPC Systems Engineer**



## Demonstrations On

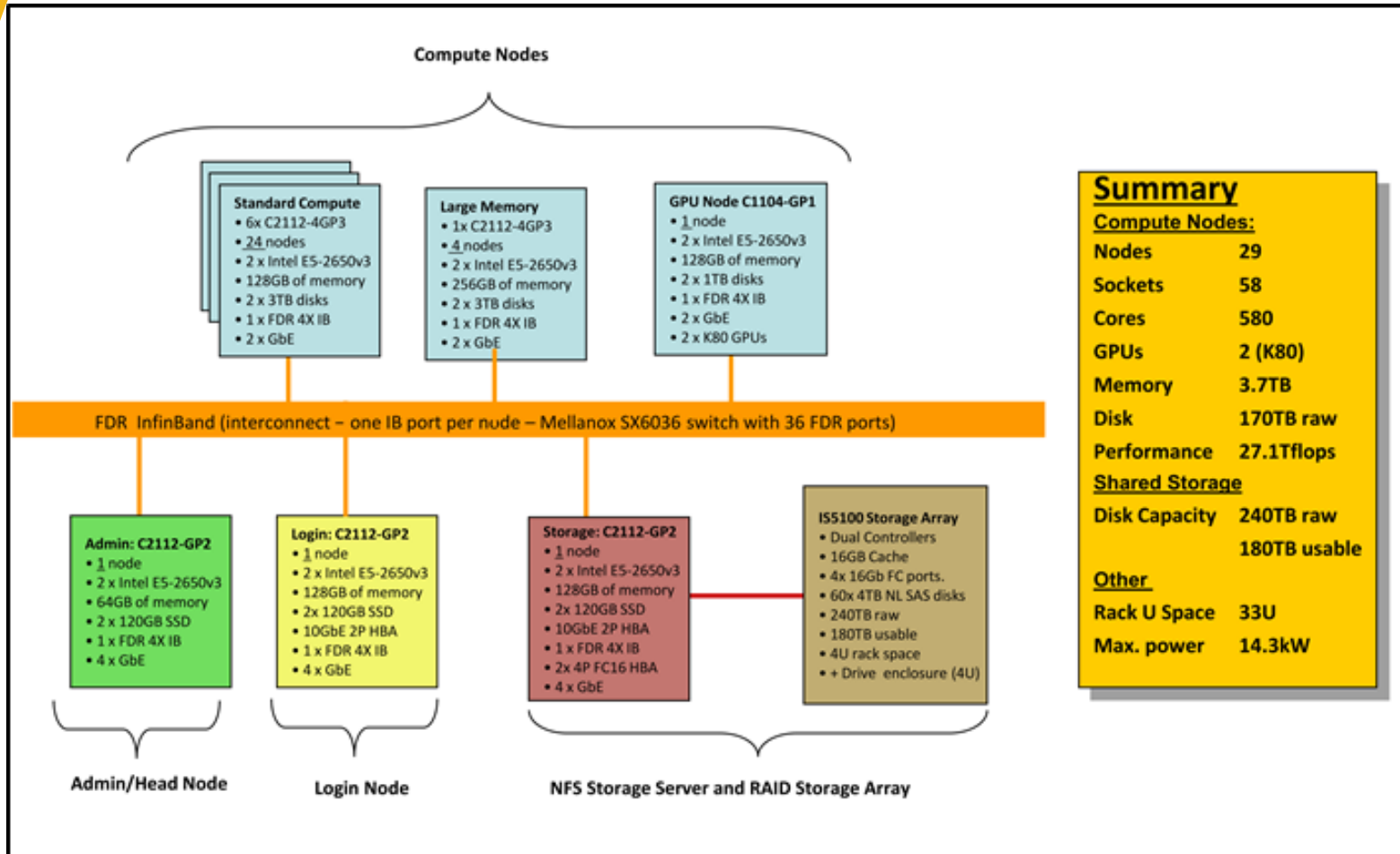
- Intro to USQ's HPC's – Sun and SGI
- How to request an account
- Logging in and running your first job
- Brief intro and scenarios – PBS pro System

## FAQ's

- Setting up submission script
- Asking for the correct resources for your job
- Submitting a job



# Intro to USQ's HPC's – Sun





# How and when to use the HPC

Fundamentally a command-line based system accessed over the network by SSH clients.

Clients available for Linux, Windows, MacOS, Android etc. HPC can be accessed remotely via USQ VPN.

Very different from using windows. Access to a GUI is possible but eventually will have to work with text files and editors.

Best use of HPC will be made when workload can be well served by attributes of environment. ie, may require large memory or many CPUs.

Is task highly parallel with little communication between

- components (embarrassingly parallel) or a large amount of
- co-ordination required between components.



# How to get an account

Log an ITSM job.

Must have authorization from supervisor.

Access restricted to Post-grads and Staff.

Login credentials are the same as for USQ network.



# Demo on how to login

login node called `sgihpc.usq.edu.au`  
(139.86.56.21)



# Demo on how to use PBSpro

login node called `sgihpc.usq.edu.au`  
(139.86.56.21)



## HPC Website

- Access to HPC
- Software Available
- Hardware
- Self Help
- Contact Us

The website is being updated regularly to ensure information is up to date. Feedback on the website is welcome.

## HPC Users Community (Intranet)

- Under development
- HPC News
- Issues Register (read only)
- Q & A
- Access – All HPC users with a staff email account.



## Research

Access >

Software >

Hardware >

Presentations >

Self Help >

Contact >

# High Performance Computing (HPC)



Access to HPC



Software



Hardware



Presentations



Self Help



Contact

<http://www.usq.edu.au/research/support-development/development/eresearch/hpc>

HPC Users Community EDIT LINKS

# HPC Users Community

Search this site

- Libraries
- Lists
- Issues Register
- Discussions
- HPC - Q & A
- Recent
- EDIT LINKS
- Site Contents



## HPC News

+ new announcement or edit this list

✓ Title	Body
New Look HPC Website	... The new look HPC website is now available. Please note: We are still in the process of updating and transferring informtion.
"How To" - Add to the Q & A Discussion and Set up Alerts for Issues Register	... The attached document is a guide for adding a question to the Q&A, and setting up alerts on the Issues Register so you know when an item has been added.  How to set Alerts for Issues Register and Discussion Items.docx edited or changed.

## Links

- Ask USQ for Staff
- eResearch Home Page
- HPC - Self Help Documents and Information
- HPC Current Software List
- HPC SGI Hardware Details
- [+ Add new link](#)

## HPC Users Experts

Full Name Job Title

There are no items to show in this view of the "HPC Users Experts" list. To add a new item, click "Add new item".

[+ Add new item](#)

<https://intranet.usq.edu.au/ict/rm/HPC/SitePages/Home.aspx>



# Questions & Discussions?