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### Logging in

- Windows
- Mac / Linux

### Clusters and Storage

- Prince (HPC)
- Dumbo (Hadoop)
- Brooklyn (OpenStack)
- Dalmata (NYU Abu Dhabi)
| Transferri ng data to/from the clusters |
| Transferri ng data to/from Prince cluster using Globus |
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Introduction

NYU IT Research Technology Services (RTS) supports and encourages a model of hosting and managing clusters for research groups or departments in return for making their unused cluster cycles available to other NYU HPC users. These research groups and departments are our HPC Stakeholders, for whom NYU HPC manages the computing resources and provides priority access. If you are interested in becoming a stakeholder, please contact us at hpc@nyu.edu for details. We can discuss your research computing needs, develop a Service Agreement, and work with you in the planning and purchase of servers. Stakeholders are part of the NYU HPC governance process and they meet once per semester with the HPC team to discuss and approve proposed changes and adjustments to HPC policies (upgrades to the clusters, security, job scheduling, downtime, etc.).

Current HPC Stakeholders

<table>
<thead>
<tr>
<th>Research Group/Lab</th>
<th>Contact Person(s)</th>
<th>Contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center for Neural Science (CNS - XJ Wang Lab)</td>
<td>Xiao-Jing Wang, Vishwa Goudar</td>
<td>12 Prince Compute Nodes with 256GB of RAM, 3 Prince Compute Nodes each equipped with 4x P40 NVIDIA GPU cards</td>
</tr>
<tr>
<td>Tandon CSE/VIDA Project</td>
<td>Claudio Silva, Yitzchak Lockerman</td>
<td>OpenStack - Brooklyn Research Cluster - hardware</td>
</tr>
<tr>
<td>Center for Genomics and Systems Biology (CGSB)</td>
<td>David Gresham, Mohammed Khalifan, John Bako</td>
<td>8 Prince compute Nodes with 128GB RAM, 4 Prince Compute Nodes with 256GB RAM, 50 TB of backed up data storage</td>
</tr>
<tr>
<td>Stern School of Business - Research Computing</td>
<td>Norm White, Robin Wurl</td>
<td>2 Prince Compute Nodes with Xeon PHI KNL</td>
</tr>
<tr>
<td>Center for Data Science (CDS)</td>
<td>Sam Bowman, Kyunghyun Cho, Tom Kirchner</td>
<td>4 Prince Compute Nodes each equipped with 4x 1080 NVIDIA GPU cards</td>
</tr>
<tr>
<td>Center for Urban Science and Progress (CUSP) NYULMC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Media and Political Participation (SMaPP)</td>
<td>Leon Yin</td>
<td>3 nodes on the MongoDB cluster (Hades)</td>
</tr>
<tr>
<td>Department of Biology</td>
<td>Edo Kussell</td>
<td>4 Prince Compute Nodes (Dell PowerEdge 6140 in a C6400 enclosure) (December 2018)</td>
</tr>
</tbody>
</table>
HPC Stakeholders Meeting

Stakeholders and HPC staff meet once per semester to discuss status updates, hardware upgrades, new services and provide feedback about the services they receive.

Planned HPC Stakeholders’ meetings:

<table>
<thead>
<tr>
<th>Term</th>
<th>When</th>
<th>Where</th>
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<tr>
<td>Spring 2019</td>
<td>March 13th 2019, 3:30p - 5:00p</td>
<td>10 Astor Place, 5th floor conference room</td>
</tr>
<tr>
<td>Fall 2018</td>
<td>October 11th, 2018, 3:30p - 5:00p</td>
<td>10 Astor Place, 5th floor conference room</td>
</tr>
<tr>
<td>Spring 2018</td>
<td>March 1st, 2018, 3:30p - 5:00p</td>
<td>10 Astor Place, 5th floor conference room</td>
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Hosting and Equipment Life Cycle Policy

NYU IT data centers are secure, state-of-the-art facilities with 24/7 monitoring and redundant AC and power. These data centers are used for hosting IT-owned, department-owned, and jointly-owned research computing clusters and data storage systems. All HPC equipment in IT data centers are taken out of service after 4 years. If used/refurbished equipment is put into the data center, this is measured from the original manufacture date rather than the date it was put into the data center.

Effective Summer 2013 there are no longer co-location fees for research clusters hosted in these facilities for individual researchers or departments. All requests to qualify for this service and/or to extend the management life of a cluster beyond 4 years (for a maximum of 1 additional year) must be approved by the Stakeholders. Requests should be emailed to hpc@nyu.edu and for requests to extend beyond 4 years up to 1 additional year should include the following:

- Reason for extension request
- Plans for replacement or retirement of cluster
- Length of time of extension being requested