

Pawsey Service Catalogue

Service	Details	How do I access?
HELP DESK	<p>A support mechanism for all users of Pawsey systems and services. It provides a single point of contact to seek information or help for any aspect of Pawsey, its operations, or facilities. If in doubt, submit your query here and our triage team will direct your request to the most suitable resource. All requests will be triaged within 4 hours of receipt.</p> <p>Security</p> <p>Pawsey manages security for the Data and Systems under Pawsey control and makes recommendations to external parties as appropriate based on observations. Pawsey also monitor and manage adherence to the pawsey Security policy, and triage any security issues or incidents as they arise.</p>	<p>Visit the Helpdesk Portal or email: help@pawsey.org.au with your request.</p>
COMMUNITY ENGAGEMENT & OUTREACH	<p>Training</p> <p>Pawsey Supercomputing Centre training courses include introductory sessions on Pawsey, Supercomputing, Cloud computing and Linux, Data Management as well as advanced sessions on MPI, OpenMP, GPU programming and containers. Sessions on visualisation and data are also offered.</p> <p>Seminars and Workshops</p> <p>Seminars to engage and inform stakeholders, the public, special interest groups.</p>	<p>Current Seminar, Clinics & Roadshow schedule here: https://www.pawsey.org.au/events/</p> <p>Request attendance or suggest future subjects, email: help@pawsey.org.au</p> <p>Visit the Helpdesk Portal or email: help@pawsey.org.au with your request.</p>
SCIENTIFIC PLATFORMS	<p>The Scientific Platforms Service(s) are focussed on the hardware and related technologies on which researchers can implement their applications, carry out processing or store their data, these services include the equipment to deliver an end-to-end capability.</p> <p>The Pawsey Supercomputing Centre maintains a range of compute capability and data storage capacity for use by the research community, including:</p> <ul style="list-style-type: none"> • Magnus - a Cray XC40 Supercomputer, for highly-parallel distributed programs. • Galaxy - a Cray XC30 Supercomputer, used exclusively for radio astronomy. • Zeus - a HPE heterogeneous cluster, for GPU-accelerated programs, large memory applications, and other specialised workflows. • Topaz - a dedicated GPU-enabled cluster, for GPU-accelerated programs. • Nimbus - a Research Cloud allowing the provisioning of resources for pilot studies, data analysis workflows, virtual laboratories, etc. • Storage - Pawsey provides several levels of storage facilities and filesystems for research applications. <p>Documentation for using the supercomputers can be found in the Supercomputing Documentation area.</p> <p>More information relating to the Nimbus research cloud service can be found by following the links found in the Nimbus Documentation.</p> <p>Technical information on the HPC systems can be found in the more detailed HPC Systems documentation.</p> <p>Networking</p> <p>Pawsey manages data movement & communications throughout the Pawsey environment, as well as external links and ingest services to partner entities and research facilities as required.</p>	<p>This link will take you to where you can Apply for Nimbus Cloud access.</p> <p>Visit the Helpdesk Portal or email: help@pawsey.org.au with your request.</p>

SCIENTIFIC SERVICES

Supercomputing Services

- Expert Advice, Solution Design and Consulting
- Large Scale computing support and research
 - numerical simulations, data science, scientific domain support
- Code Development and Optimisation, Scalability analysis
 - parallelisation and accelerated computing, performance investigation, optimisation support
- Computational and Data Workflows
 - scheduling, containers, workflow tools
- Scientific Software and Tools
 - preinstalled packages and tools, support in software installation

[Supercomputing Documentation](#)

Nimbus Research Cloud Services (<https://nimbus.pawsey.org.au>)

- Expert Advice, Solution Design and Consulting
- Support in setting up VMs on Nimbus
- Recommendations and Use Cases

[Nimbus Documentation Landing Page](#)

Managed Storage Services (<https://data.pawsey.org.au>)

- Expert Advice, Solution Design and Consulting
- Capabilities for building, archiving and sharing research data collections
- Data Portal for managing, ingesting, sharing, searching and setting quota (MediaFlux/Data Portal) on the data sets
- Data guides or service information can be found in the [data documentation](#) area, and [Pawsey Data Portal](#)
- Researchers can be provided with a desktop environment to perform a bulk upload of data to the Pawsey data stores where data pipeline challenges exist

[Data Documentation](#)

Visualisation Services

- Expert Advice, Solution Design and Consulting
- Visualisation and Visual Analysis
- Hardware, software and expertise, to tackle the whole range of visualisation activities that are relevant to the research community
- Several forms of visualisation services which can be leveraged by Researchers
 - High-end visualisation workstations
 - Remote visualisation (<https://remotevis.pawsey.org.au>)
- Researchers can be provided with support with their efforts in a visualisation environment.

[Visualisation Documentation](#)

Supercomputing Services

Access available through merit allocation schemes: NCMAS, Energy & Resources, Pawsey Partner.

Visit [Supercomputing Application Process](#) for more information.

Nimbus Research Cloud Services

Visit [Apply for Nimbus Cloud access](#) for more information.

Managed Storage Services

Visit [Managed Storage](#) for more information.

Visualisation Services

Visit [How to Apply for Visualisation Services](#) for more information.

Visit the [Helpdesk Portal](#) or email: help@pawsey.org.au with your request.