Research VPN
Big data transfer solution

The AARNet Research VPN is a dedicated 100 Gigabit per second capacity virtual private network with international reach for a small number of collaborating research facilities.

The AARNet Research VPN is a solution designed to support the unique big data transfer needs of a small community of institutions and organisations involved in data-intensive research collaborations. These include AARNet-connected universities and research institutes, scientific instruments, compute and storage facilities nationally and selected research facilities internationally.

Why the AARNet Research VPN?

- Organisations involved in data-intensive research, resulting in large, sustained data transfers between several research partners in the dataintensive research community.

- These big research data transfers typically involve multiple partners such as scientific instruments, storage and compute resources nationally and may include international research facilities.

- Organisations seeking cost-effective and fast way to manage these big data transfers with a known, fixed cost, and without the risk of impacting others using your campus network.

Key Features

- Dedicated 100 Gbps access to a virtual private network shared with a small number of research facilities in Australia

- International reach to select research facilities connected to the global network of national research and education networks

- Backbone diversity mitigates risk of downtime

- Access to data engineer assistance for end-to-end data transfer optimisation

- Network testing, network measurement, and performance analysis is incorporated, typically through the deployment of perfSONAR

- Fixed recurring cost

The role of AARNet

AARNet is the high-performance network for the Australian research and education community. Our job is to build and operate the infrastructure to support scientists and their collaborators at universities and research institutes. AARNet is committed to investing in for-purpose infrastructure to enable data-intensive science.

AARNet 100Gbps Research VPN

Scientific Instruments

Select Global Research Facilities

Storage

Compute

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