



Data Storage

Full NVMe SSD Block and SSD Object Storage

Data Storage services are designed to provide fast, reliable, secure data storage capacity and retrieval access for agency data.

Data storage is a critical component of Queensland Government activities. CITEC's storage offering is managed by an experienced team that knows and understands government requirements.

We provide fast, all flash block or file and object storage solutions on full state of the art Non-Volatile Memory Express (NVMe) solid-state storage devices (SSD) that are suitable for all types of workloads.

Benefits

- Data Storage provides secure containment of data within Queensland Government data centres, operated by government staff
- No sovereignty issues or unexpected local law matters
- Storage proximity to compute resources provides low latency response times
- Closeness to and visibility of other elements of Queensland Government ICT services allows deeper insight into requirements and faster issue resolution

Prerequisites

- Agency systems must be either located in or connected to one of CITEC's data centres.
- QGN connection for object storage.
- Direct attached storage servers must be certified for connectivity to CITEC according to vendor compatibility matrices.

Features

- Provision of data storage capacity
- Provision of Storage Area Network Fibre Channel (SAN FC) connectivity between the server or VM infrastructure and storage arrays with block storage
- Provision of QGN connectivity between the server or VM infrastructure and storage arrays with file and object storage
- All flash full NVMe solid-state disks
- Scalable capacity

Variants

- **Block** - ideal for low latency and performance-critical workloads
- **File and Object**
 - ▶ **File** - ideal for infrequently accessed data
 - ▶ **Object** - ideal for data that needs to scale up to petabytes and beyond

Metrics

Response time: average of less than 2ms at the array level.

Availability: 24 x 7 - 99.99%

Incident response for infrastructure: 24 x 7

Requests: Monday to Friday 8am to 6pm

Fulfilment¹:

- ▶ Initial setup for a new server, less than 30TB² – 2 to 5 work days
- ▶ Additional storage for existing server, less than 30TB² – 1 to 2 work days

¹Depending on complexity and assuming required connectivity is in place. ²Requests for disk sizes greater than 30TB may take up to 4 weeks.

Reporting

Presented as number of gigabytes allocated (max in the month), included on invoice. Other reporting optional upon request.

Additional and related services

- Server Management
- QCloud (private cloud)
- Data Protection
- Cyber Security (recommended)

Options

- ➔ Data replication
- ➔ Data encryption at rest
- ➔ Data encryption in transit
- ➔ Data protection (backup)
- ➔ Synchronous Active/Active cross-site replication
- ➔ Cloning and snapshots capable

Ordering

Please contact your CITEC representative

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