



Private Cloud – Storage

Our Private Cloud – Storage product provides single-tenant storage Infrastructure as a Service. Your data is hosted in one of our UK data centres, to gain the benefits of our mature and proven Assured and Elevated cloud platforms; or in your Crown Hosting Data Centre (CHDC).

Private Cloud – Storage is designed to be deployed as part of a larger solution to include genuine cloud services such as Enterprise Compute Cloud, Cloud Native Infrastructure, Digital Application Platform or Hadoop in the Cloud. This enables you to leverage the benefits of the UKCloud assured cloud platform; even on infrastructure that is entirely dedicated to you.

Information assurance and connectivity

The UKCloud assured cloud platform is designed and optimised to meet the unique information assurance needs of UK public sector organisations.

- Deploy on an established, trusted Assured or Elevated OFFICIAL cloud platform
- Connect via the internet, or via PSN, RLI, N3 or JANET networks
- UK-based telephone service desk and NOC function, with 24/7 support for high-priority incidents, including access to UKCloud's technical subject matter experts
- Platform optimised for OFFICIAL and fully aligned with the 14 CESG Cloud Security Principles
- Multiple secure tier 3 UK data centres separated by more than 100km and securely connected by high-bandwidth, low-latency dedicated connectivity
- Extensive independent validation by recognised UK public sector authorities enhances the platform's suitability for especially sensitive workloads for organisations such as health, police and defence

- UK sovereignty — assured cloud platform delivered across two UK sites by a UK-based company with UK government security-cleared staff
- Platform that hosts workloads exclusively for the UK public sector, creating a known and trusted community of neighbours
- A mature and expansive partner ecosystem, including system integrators, managed service providers, software development houses and consultants specialising in transformation projects

Key differentiators

- UKCloud-supplied storage infrastructure or option to 'bring your own' hardware
- A choice of CAPEX or OPEX models for UKCloud-supplied infrastructures
- A choice of locations for your infrastructure — UKCloud hosted or within CHDCs
- Cross Domain Security Zone (UKCloud Guard or Walled Garden), to enable citizen access over the internet to data that is securely hosted on the Elevated domain

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Features and benefits

Feature	Benefit
Private single-tenant cloud storage solution provides stronger isolation assurance	Your own private environment to mitigate the risk of contention from other organisations
Scalable: from 100TiB to over 20PiB providing isolated storage	Elasticity — scalable as your needs grow and evolve
Flexible location for your infrastructure	You can take advantage of your storage environment being in a UKCloud data centre or within a Crown Hosting Data Centre
Day one economies of scale	Ensuring you have capacity only when you need it and only pay for what is installed — especially if you're moving large volumes into the cloud
Flexible connectivity options: internet, PSN, N3, JANET or HybridConnect	Enables you to make your cloud solution accessible to virtually any community of government users and systems

What the service can help you achieve

- Flexible location of your infrastructure — UKCloud hosted or within Crown Hosting Data Centres
- Ownership of the underlying hardware, with associated capital expenditure (CAPEX)
- Day one economies of scale, especially if you're moving large volumes into the cloud
- Your own private environment to mitigate the risk of contention from other organisations

Use cases

- To have higher specification storage needs to meet your requirements
- To have more control of your environment
- For customers wishing to use their CAPEX budget
- To have more flexibility in the configuration of your environment — for example, the size of storage pool and number of stored copies
- To have the scalability to bring large workloads

Technical features

Private Cloud – Storage provides the following features:

- Integration with existing, native and virtualised enterprise applications with no change to the application or stack
- Native support for a wide variety of network protocols such as SMB/CIFS, NFS, HTTP and, optionally, HDFS
- Custom hardware sizing from 100 TiB to 20 PiB+ with support for a single, large file system if required
- Option to implement a multi-site replicated Private Cloud — Storage solution
- Extensible with WAN acceleration solutions (for example, Riverbed) and cloud storage gateways (for example, EMC TwinStrata)
- Option to add advanced software features such as auto-tiering, deduplication, retention, replication, quotas and snapshots
- Note that this service delivers your dedicated storage asset to you conveniently as a cloud service. If you need the control of root access or the bespoke nature of a managed service, this is not the right service for you.