



Private Cloud – Compute

Our Private Cloud – Compute product provides single-tenant Compute as a Service, where your compute needs are hosted either in one of our data centres, to gain the benefits of our Assured and Elevated cloud platforms; or in your Crown Hosting Data Centre (CHDC).

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

- Designed around your requirements — the perfect balance between a bespoke solution and the efficiency of a dedicated environment
- Choice of location for your infrastructure — hosted at UKCloud or in a CHDC facility
- UKCloud data centres located on the same sites as the data centres offered by CHDC, providing proximity to your UK cloud hosted by us
- Secure and flexible software-defined data centre solution powered by VMware vCloud Director or OpenStack
- Advanced Cross Domain Security Zone (UKCloud Guard or Walled Garden) that enables citizen access over the internet to data that is securely hosted on the Elevated domain
- Ability to choose from UKCloud compute sizing range or to specify your own

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Features and benefits

Feature	Benefit
Private single-tenant cloud compute solution provides stronger isolation assurance	Designed around your requirements — the perfect balance between a bespoke solution and the efficiency of a dedicated environment
Dedicated infrastructure providing more flexibility compared to shared infrastructure	Ability to choose from UKCloud compute sizing range or to specify your own
Choice of location for your infrastructure: UKCloud or CHDC	UKCloud data centres in Farnborough and Corsham are located on the same sites as the data centres offered by CHDC — providing proximity to your UK cloud hosted by us
Secure and flexible software-defined data centre solution powered by VMware vCloud Director or OpenStack	Providing a choice of platform to address your needs
Flexible connectivity options: internet, PSN, N3, JANET or HybridConnect	A choice of connectivity to suit you and your customers, depending on their chosen connectivity needs

What the service can help you achieve

- Ownership of the underlying hardware, with associated capital expenditure (CAPEX)
- A private infrastructure that is sized for predictable size and type of workload
- The assurance of additional isolation within the community of UK public-sector customers
- Less complex compute management; no more managing compliance, hypervisors or hardware — you can just consume assured cloud computing
- A better way to deliver the private cloud element of a hybrid cloud strategy with secure, UK-sovereign hosting, managed by UK government security-cleared experts, and accredited connectivity to government community networks

Technical features

Private Cloud – Compute provides the following technical features:

- Native compatibility with a wide variety of operating systems (for example, Windows, Linux and Solaris x86) and applications (for example, Oracle, SAP and Microsoft)

- Automated systems management via the UKCloud Portal and API (for example, show-back of utilisation, health, availability)
- Option to implement a dual-site replicated Private Cloud – Compute solution leveraging UKCloud's existing CESG-assured WAN connectivity

Use cases

- To have higher specification computing needs to meet your requirements
- To have more control of your environment
- To enable customers to use their CAPEX budget
- To have more flexibility in the configuration of your environment — for example larger or different size VMs and larger storage pools
- To have the scalability to bring large workloads