



Cloud Virtual Machines – Private & Secure Virtualisation

The flexibility of Cloud with the assurance of dedicated racks

We operate a Private Infrastructure Cloud architecture delivered using best of breed virtualisation technologies. The UKSolutions platform resides within the same highly secure and fault tolerant hosting environment as our traditional dedicated rack services, offering you total peace of mind around data security and service quality.

UKSolutions

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Cloud flexibility, secured by UKSolutions.

Meeting compliance yet delivering value for money in IT is a fine balance, our platform delivers. Utilising best of breed virtualisation and hardware platforms, the Cloud solution boasts security and reliability from the core.

Private Cloud

Each Cloud Virtual Machine is private for your use. The amount of fixed resources are allocated and always available for your use, along with the ability to increase or burst as options within the service. The compartmentalisation of each virtual machine is at the core of the design to support security. We also support “utility” billing where you only pay for the virtual machines, memory and processor time you actually use.

The Cloud Services

Cloud Virtual Machines are simple to use, scalable and resilient replacements for hardware in your racks. A range of other Cloud services compliment and support both the CVM’s (Cloud Virtual Machine) and traditional rack hosting to improve user experience and provide value for money.

Key Features

- ▶ **Flexible – grow and shrink**
Starting with a single core of CPU, each virtual machine can be scaled with either dedicated or shared CPU power
- ▶ **Secure – know where your data is**
Built on best of breed and hosted within UKSolutions highly secure datacentres, you will always know where your data is
- ▶ **Simple Delivery**
Delivered via a secure Multi Service Link into existing rackspace or directly accessible from the Internet
- ▶ **Service Level Agreement**
You will always have access to the resources you order, and using the High Availability options we will manage hardware failure with seamless migration

Cloud Product	Service Options
Cloud Virtual Machine	Multiple CPU Cores, 1-128GB RAM and flexible 25-800GB base fast SAS RAID10 storage
Cloud Storage	25GB-4TBs high capacity network accessible storage
Cloud Delivery Network	Publish data held on your private cloud or from your racks through our content delivery network with distribution nodes at all our network pops worldwide.
Cloud DNS	Using our Anycasted DNS service, lookup times for access to your public facing services will be significantly reduced leading to improved user experience.

Environmentally Sound

By sharing our architecture between many clients, the total power utilised by the service when compared to individual boxes or multiple smaller virtualisation projects is considerably reduced. During our design of the architecture we estimated that in a comparison with dedicated servers, the Private Infrastructure Cloud solution can demonstrate a 20% saving in carbon emissions for the same IT use. Whilst comparisons vary, the improvement in environmental position offered by the platform can contribute to an overall improvement programme within your company.

Public vs Private Cloud

	Private Cloud	Public Cloud
Key focus	Functionality and flexibility	Cost saving with one size fits all
Evolution in technology	Simpler to plan and act on controlled infrastructure	Requires co-ordination between multiple users and large scale upgrade
Data jurisdictions to country level	Controlled and compliant	Regionalised/global, not compliant
Provisioning and support	High touch, customised	Low touch, generalised
Control	Granular and customised	Simple focused on scalability

High Performance and Highly Available

The UKS Private Cloud is built with High Availability and High Performance in mind. Leveraging Enterprise Hardware and Software UKS is putting in place the architecture it's customers need to meet the requirements of today and the future.

Key Features

- ▶ High Performance
- ▶ Highly Available
- ▶ Dynamic Resources

High Performance	Enterprise Class server hardware using the latest Intel CPU architecture combined with high speed Fibre Channel storage for your disk intensive applications
Highly Available	Automatic hardware failure detection means that in the event of failure your Cloud Virtual Machine will be automatically restarted
OS Failure Detection	In the event of a Blue Screen or a Kernel Panic our Enterprise Software will detect this and automatically restart your Cloud Virtual Machine
Rapid Deployment	Deploy using the UKSolutions Maintained Templates, install a web server, database server or domain controller in minutes
Operating System Choices	The UKSolutions Private Cloud supports Windows, Linux, Solaris and all the variations therein. You have the freedom to license your Cloud Virtual Machine independently or can opt to use UKSolutions licensing for an even greater cost-saving
Uncontended with Dedicated Hosts	The UKSolutions Private Cloud is an un-contended platform. CPU and Memory is allocated on a per Cloud Virtual Machine Basis ensuring that you get the performance you and your applications need
Flexibility with Utility Billing	Dedicated resources may not always be needed – Utility Billing allows you to pay for what you need. Memory, processor and virtual machine licenses are monitored monthly and your charges reflect use.
Spare Capacity	UKSolutions maintains additional spare capacity within its Cloud Architecture to cover host failures or increases in computational requirements
High Capacity Networking	All Virtual Machines are provisioned with Gigabit networking, this is then backed by the UKSolutions Next Generation Network which is delivered by multiple 10 Gigabit links with diverse routers across diverse carriers in separate geographical locations
Performance Monitoring	Performance statistics are available 24x7 via our enterprise tools which supports the exporting of performance data to ensure you are exceeding KPI's
Dynamic Capacity	As your performance requirements increase, UKSolutions can increase your allocation at the same time. Memory, CPU and Disk can be dynamically allocated per Cloud Virtual Machine to increase capacity as and where required



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Data Matters