# Datum

# Datum active-active cloud

**Datum cloud is active-active, as standard.** With automatic failover and an RTO/RPO of near zero, our cloud platform gives you built-in disaster recovery, as standard — a truly resilient enterprise cloud solution.

www.datum.co.uk ↗

# Contents

vmware® PARTNER
PROFESSIONAL SERVICE PROVIDER

vmware® HYBRID CLOUD POWERED

# Flexible. Resilient. Secure.

**From a stand-alone, pay-as-you-go IT resource,**
to a dedicated, long term, scalable environment that
links with your existing virtualised infrastructure,
your Datum cloud deployment can be what you
want and need it to be.

All the while, you get the reassurance of our active-active hosting platform, featuring built-in, automated failover to ensure continuous availability for your resources.

Everything is delivered from one of the most secure data centres in the UK: our Home Office approved, ISO27001 facility **MCR1**, which offers 2(N+N) UPS redundancy and an on-site BS5979 control centre.

And whether you're taking your first steps into cloud computing, or you're a VMware® virtualisation veteran looking to exploit the full potential of cloud, contact us today and in true "on-demand" style, we'll get you up and running with your own cloud trial, free of charge — complete with full support and one-to-one induction.
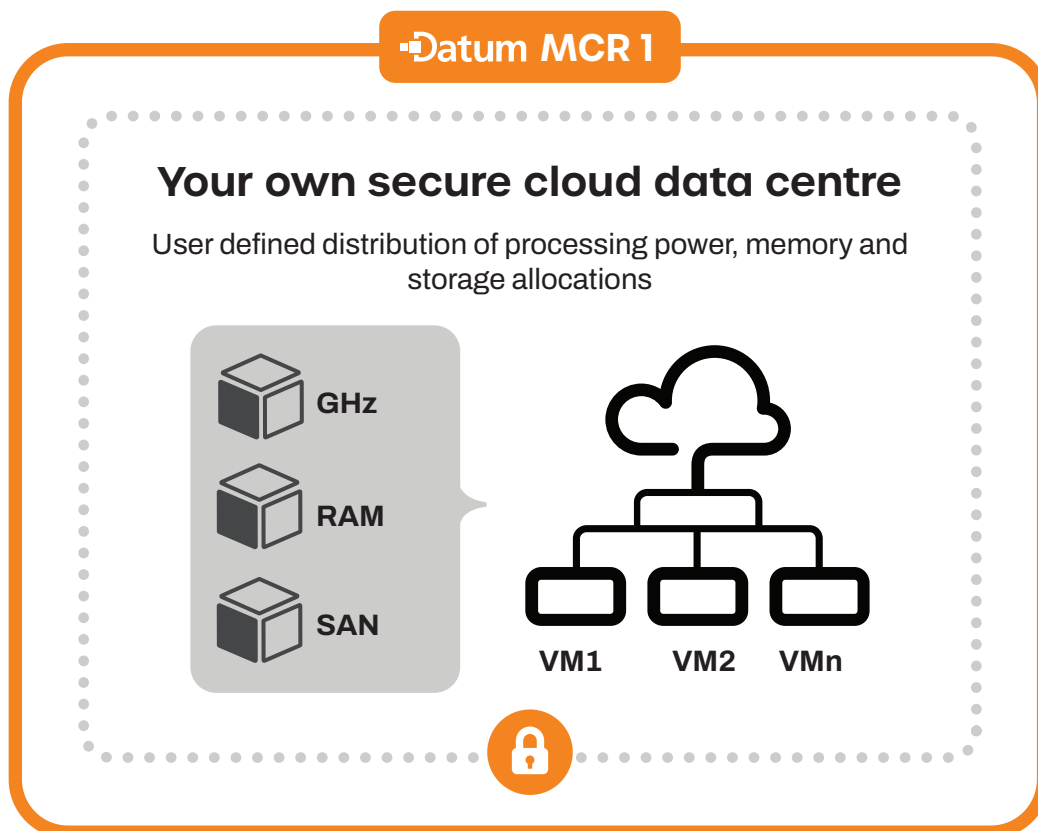
## | Key solution feature

↗ Built by our cloud specialists and hosted in our Manchester data centre, our cloud platform uses VMware® vSAN stretched cluster technology to provide constant, sub-millisecond replication between two identical platforms, in two separate UK locations.
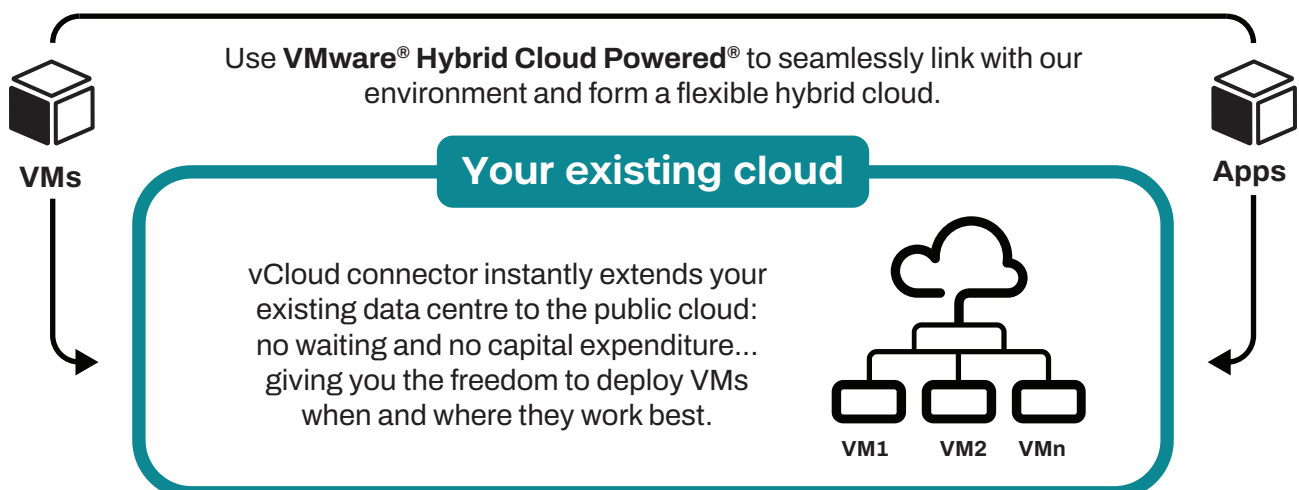
# High-level platform overview

## Option 1: Stand-alone VMware® cloud platform

**⬤Datum MCR 1**

### Your own secure cloud data centre

User defined distribution of processing power, memory and storage allocations

GHz

RAM

SAN

VM1    VM2    VMn

## Option 2: Create your own hybrid environment

Use **VMware® Hybrid Cloud Powered®** to seamlessly link with our environment and form a flexible hybrid cloud.

VMs

Apps

### Your existing cloud

vCloud connector instantly extends your existing data centre to the public cloud: no waiting and no capital expenditure... giving you the freedom to deploy VMs when and where they work best.

VM1    VM2    VMn

# Get the cloud that works your way

**There's no such thing as one size fits all** — this is your cloud, and that means freedom, flexibility and choice. Datum cloud gives you full control over the way that you consume computing resources with a choice of flexible deployment models.

## Reservation cloud

The classic "software defined data centre" gives you the ability to secure exact allocations of RAM and SAN storage for a fixed, predictable monthly fee. All the computing resources you need, guaranteed to be there when you need them.

- Ideal if you have stable and consistent computing workloads to take care of
- Consumption is calculated monthly
- Monthly billing cycle

## Pay-as-you-go cloud

The efficient PAYG model helps you to closely track your resource consumption and costs against cyclical or dynamic demand. You only pay for what you use — and don't end up allocating budgets to idle resources.
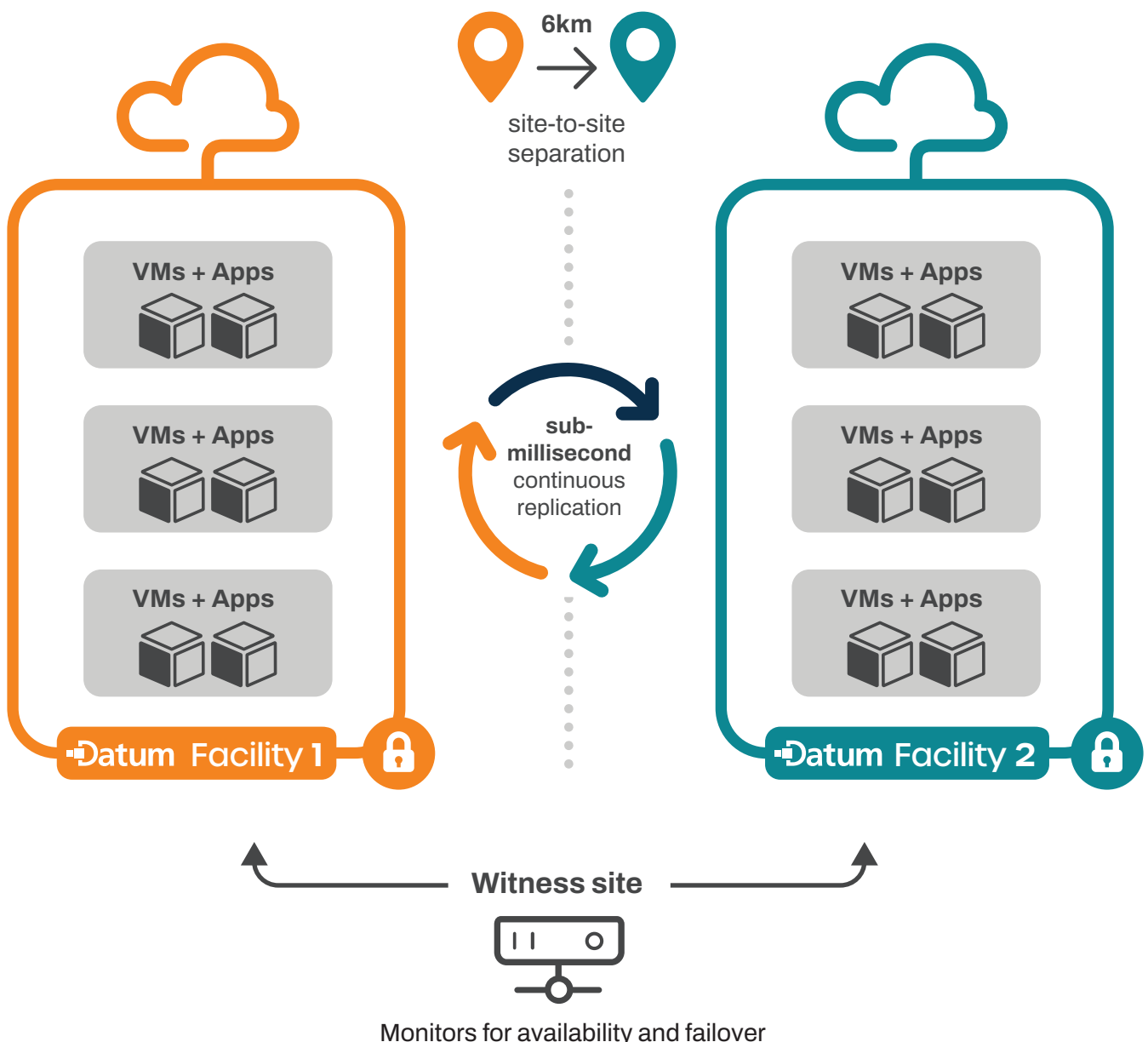
- Perfect for handling unpredictable or short term computing workloads
- Consumption is calculated by the hour
- Monthly billing cycle

# Built-in DR with active-active cloud

**Active-active architectures eliminate the risk of downtime** by allowing your online assets to be served from separate, synchronised hosting environments at any given time. So if one hosting location fails, another seamlessly takes over and your resources remain up and running.

**6km**
site-to-site separation

**sub-millisecond** continuous replication

VMs + Apps

VMs + Apps

VMs + Apps

VMs + Apps

VMs + Apps

VMs + Apps

Datum Facility **1**

Datum Facility **2**

**Witness site**

Monitors for availability and failover

# Under the hood... what do you get?

**What about some details covering the technology and physical infrastructure behind all of this?** We're sure you have plenty of questions, so here are the top three areas we're asked about.

## Managing your cloud

⬈ Each deployment gives you access to an individual instance of VMware's vCloud Director cloud management portal. Through this online interface, you can create virtual machines with as much RAM and storage as you need. Plus, you can see and manage your entire virtual data centre from a single point, wherever you are.

⬈ What's more, if you already have an on-site virtualised infrastructure, you can use VMware's free vCloud Connector to seamlessly expand the boundaries of your on-premise environment into our vCloud Powered® platform, instantly providing you with the extra resources you need, without the capital investment, and allowing you to deploy workloads in the most efficient way possible.

## Serious about security

⬈ Your deployment is protected by a combination of VMware NSX Manager, VMware NSX Edge, and off-net virtual data centre private networks.

⬈ We've designed the architecture with three layers of network: the outside public network, an inside private network (connected as required to the outside public network) and a final inside private network for inter-system connectivity.

- VMware technology ensures privacy and security in this industry-standard "multi-tenancy" environment by deploying each solution as a private local network, and using port group isolation to completely segregate individual customers.

- Of course, the entire cloud platform sits within one of the most secure data centre facilities in the UK — featuring a BS5979 and BS8418 Control Room and Alarm Receiving Centre on site, manned 24/7 by SIA accredited operatives working to protect your interests at all times from any and all threat situations.

## Next generation resilience and performance

- Flash-optimised and secure, cloud storage is powered by VMware vSAN™, the technology behind the latest Hyper-Converged Infrastructure (HCI) solutions.

- With built-in fault tolerance, distributed RAID and cache mirroring, this high availability technology ensures that more than ever before, data is protected from loss — making it perfect for serving your business critical applications.

- Featuring an efficient hybrid architecture, your cloud environment also delivers low-latency storage access — translating into faster performance for your end-users.

## Let's talk

Talk with one of our team about how active-active Datum cloud services transform the resilience of cloud operations while introducing cost savings and operational peace of mind.

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