

# The Active-Active difference

**Active-Active architectures** eliminate the risk of downtime by making it possible for your online assets to be served from separate, synchronised hosting environments at any given time. But how does this work behind the scenes?



# Welcome to Teledata

**We're a Tier 3 data centre facility in Manchester, located right at the heart of one of the Manchester Airport City Enterprise Zones.**

We're ISO27001 accredited and we provide premium colocation, cloud hosting and data centre services to businesses across the country. We're proud to be one of the most secure, resilient and well-connected data centres in the UK. In fact, our Security and Operations Control Centre (SOC) means that we're the only data centre globally, with an NSI Gold Approved BS5979 security centre on-site.

## **Bringing people and technology together...**

Delivering the highest levels of service and support, we put people at the heart of our technology with solutions that are designed to optimise your business performance, empower your teams and help you to grow. Providing our network of clients with best-in-class hosting solutions, we can truly help to drive your business forward.

## **Our building, our builds, our people**

We're proud to be Manchester's only premium independent data centre. We own the buildings that the servers are housed in, we built the data centres to top specification, and our dedicated support team is based right here too, looking after a network of clients across the globe.

## **Our people, your team**

We bring people and technology together, and you can bank on our team of passionate technical experts to support you every step of the way.

All of our engineers are VMware® certified, SC cleared and background checked, and our customer support team is based right here on-site at Delta House in Manchester. In fact, the people you'll be chatting to about your everyday questions and queries are the people that built our data centre from the ground up, because we think there's nobody better to advise you, than them.



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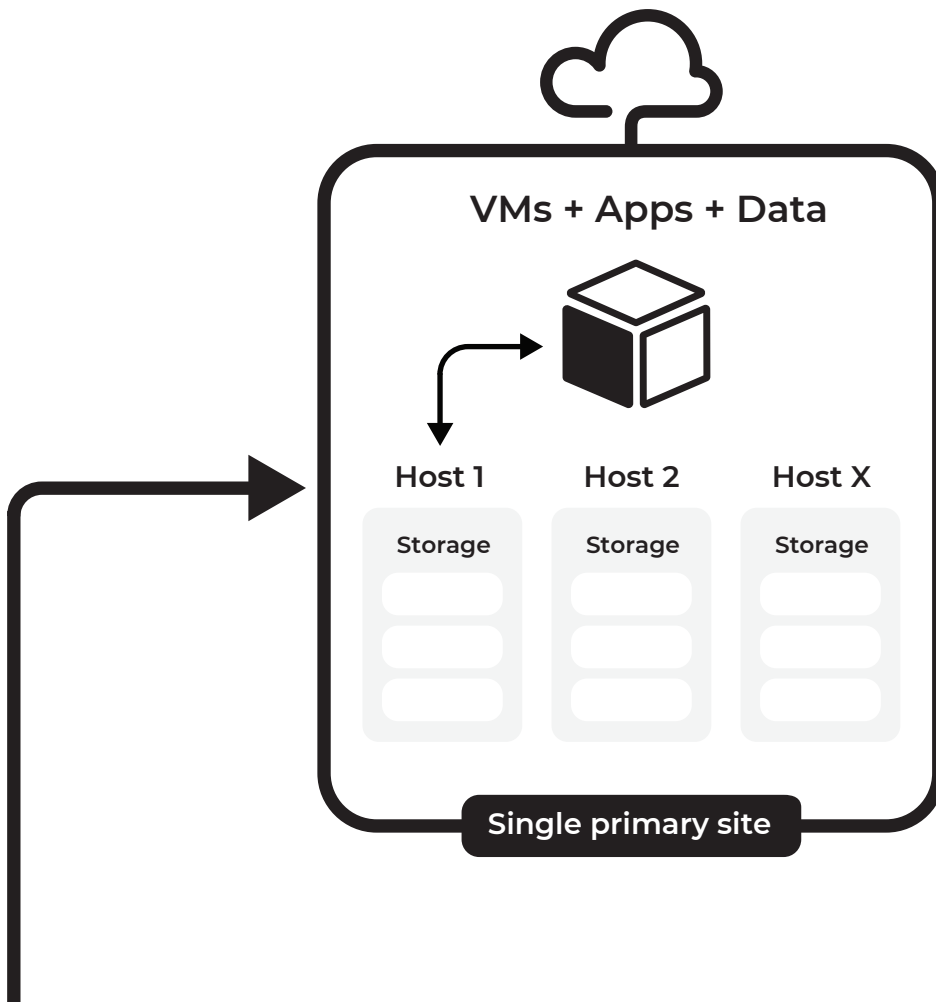
**We'd love to see you...**

Why not pop in for a tour of our facility? Visit our website at [www.teledata.co.uk](http://www.teledata.co.uk) or call 0161 498 1200 for details.



# Single-site architecture

- ▶ First, let's look at a typical single-site solution where your VMs, data and apps exist in **only one location**.



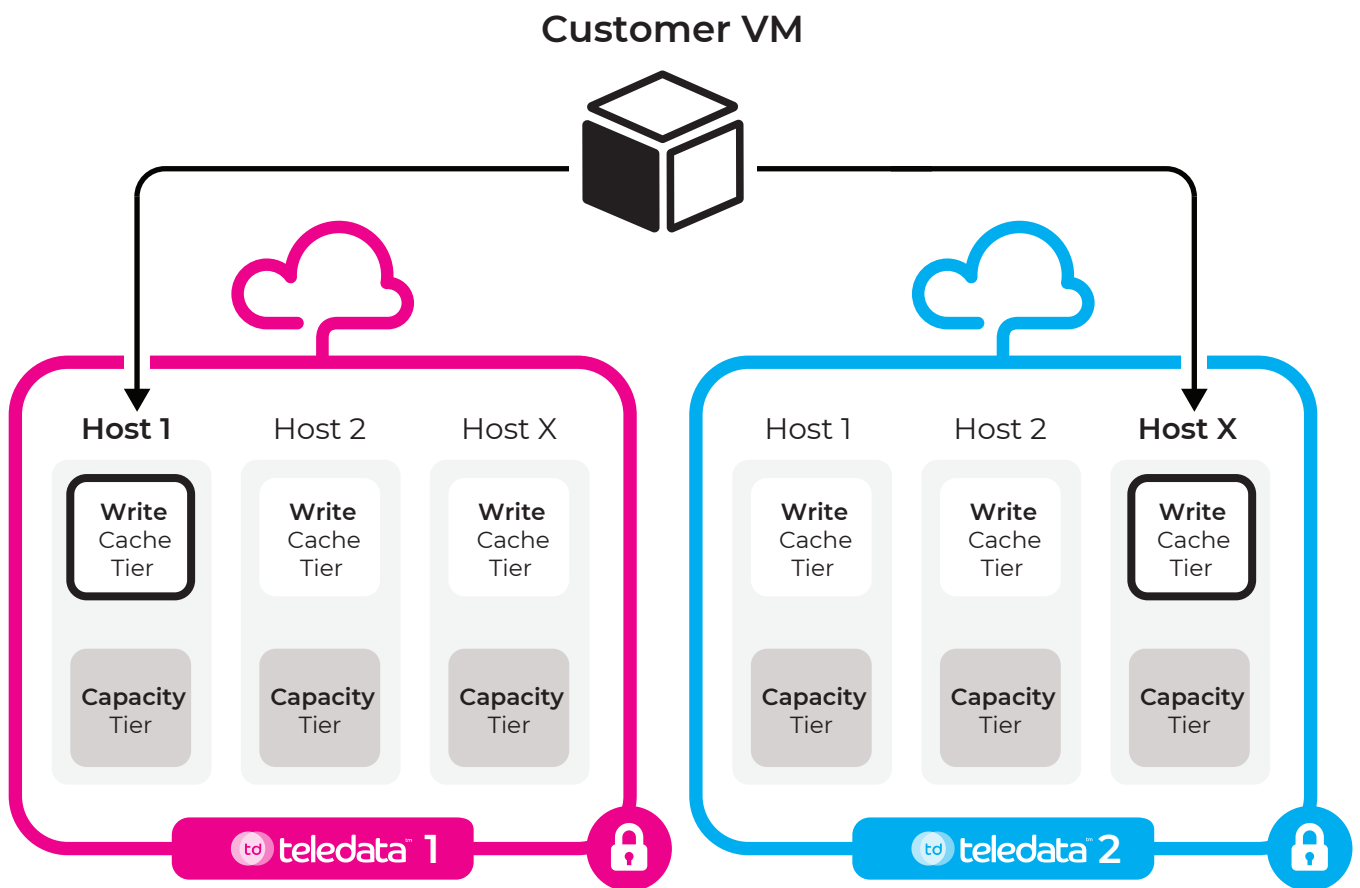
## ⚠ Single point of failure

In the event of a data centre outage, your VM will fall offline and as a result, you will suffer loss of service.



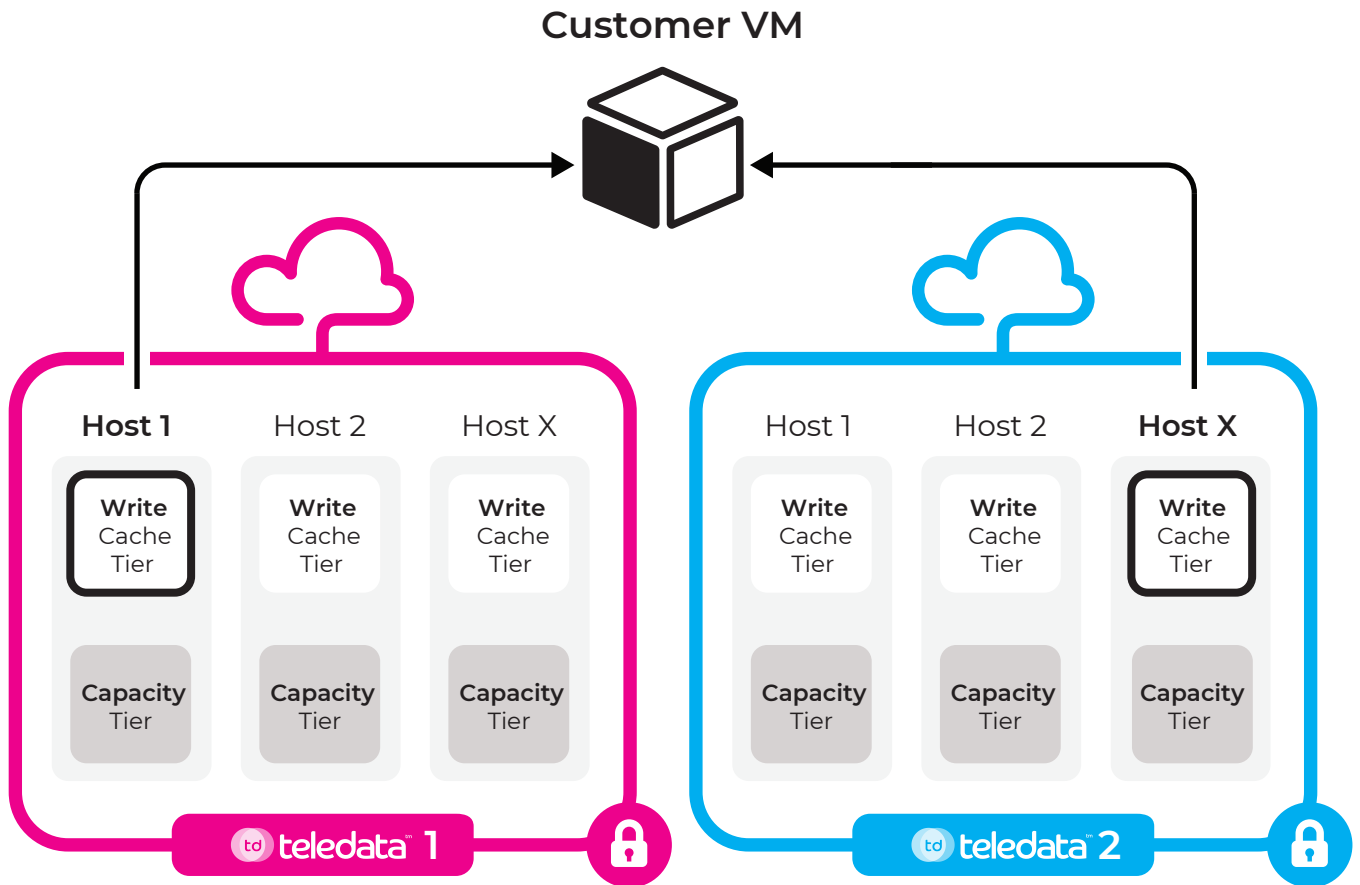
# Active-Active architecture

- ▶ By comparison, an **Active-Active** solution uses a **dual-site architecture** to build in additional resilience.



- 1 When the VM performs a **write operation**, it gets sent to two hosts — one at each site. The data is written to the **write cache tier**, for optimum write performance.

- 2 Both hosts confirm the write acknowledgement back to the VM...



- 3 ...and the VM continues with the next task.

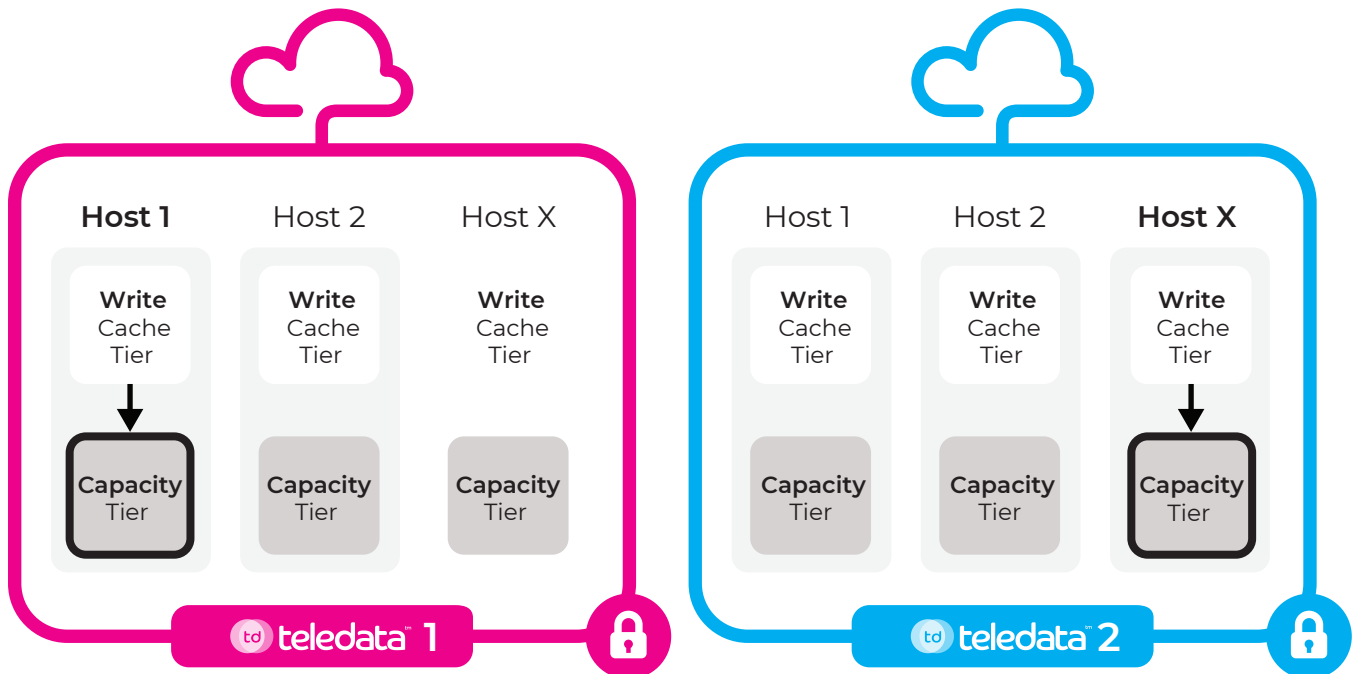
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## Key solution feature

Rather than being simply copied between sites, your data is **sent to both sites at the same time** — which means no data loss in the event of a data centre site failure.

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At a later time both hosts will **destage the write cache tier to the capacity tier**, without any impact on the VM.



## Find out more

Talk with one of our team about how **CloudActiv™** transforms the resilience of cloud operations while introducing cost savings and operational peace of mind.

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Call 0161 498 1200

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