

hSo:

CLOUD  
NETWORK  
SECURITY

# Hybrid Cloud Adoption



Your guide to hSo: Hybrid Cloud and hSo: Virtual Data Centre

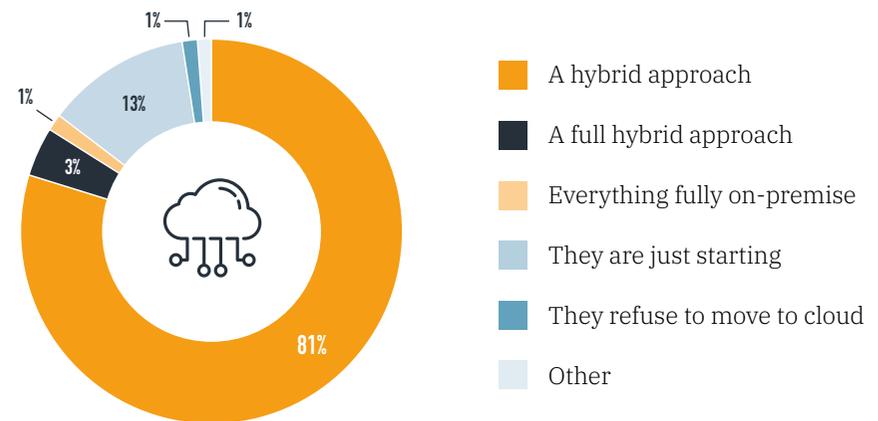
# 01

## Cloud opportunities and challenges

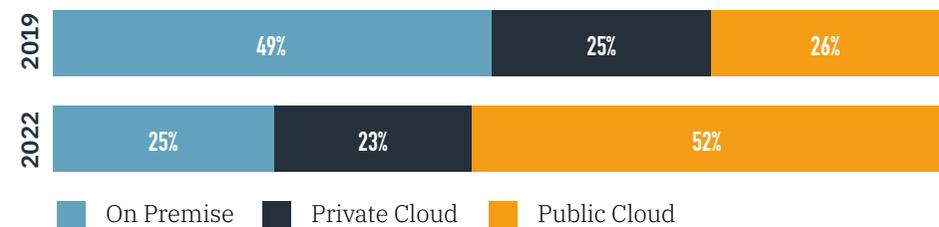
Organisations continually evolve and optimise their business operations. Decades ago, the introduction of computers resulted in a difficult yet rewarding transformation of everyday business processes. Today, cloud technology is mirroring the same technological evolution and with it comes required organisational change. The challenge is transformational: embracing a whole new way to manage data and applications.

Unsurprisingly, a recent study reports *49% of workloads are currently on-premise which is projected to be halved by 2022\**. The cloud is, however, not suitable for all data loads and, neither must a “all or nothing” decision need to be made. To be “public cloud-ready”, legacy applications and data will require re-engineering. Here, challenges such as lack of a skilled workforce, variability of costs as well as complexity of setup and security leaves many disillusioned with the achieved results.

### What cloud models are customers adopting?\*



### Workloads distribution in 2019 vs 2022+



\* Source: “Destination cloud success: Key factors to harnessing the cloud”, CRN Whitepaper, VMware (2018)  
 +Source: “Unlocking business acceleration in a hybrid cloud world”, McKinsey Digital (2019)

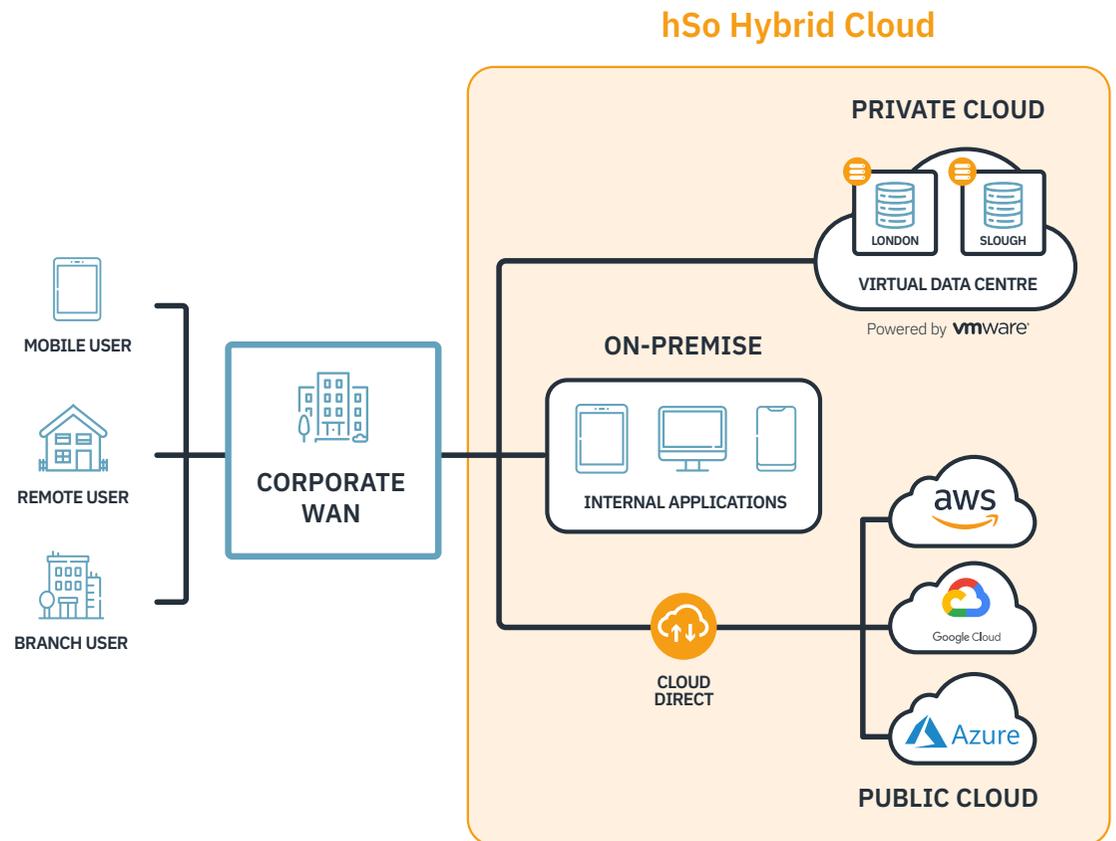
## 02

# Scalability & security with Hybrid Cloud

A single type of cloud cannot cater for all requirements. In practice, a hybrid approach – a Hybrid Cloud – allows for the need to mix and match cloud technologies. Workloads and applications can run in their optimised environments, left on legacy platforms or migrated to new Platforms-as-a-Service with security and network orchestration ensuring a transparent user experience. This practical approach ensures not only scalability and security by design but also helps IT departments to embrace the transformational challenge without taking a long and risky road.

Our cloud architects can set up a Hybrid Cloud for your organisation, linking private and public clouds as well as incorporating new virtual data centres. Your virtual data centre is securely linked to your existing IT infrastructure protecting your data and enabling recovery whenever necessary.

With hSo: Hybrid Cloud and hSo: virtual Data Centre, there is no need to compromise anymore; you can get high availability coupled with on-demand scalability. You can place workloads on public clouds such as Azure, as well as on the hSo virtual Data Centre, a resilient private cloud platform.



# 03

## hSo: virtual Data Centre

hSo vDC is a scalable cloud computing platform, providing on-demand storage and server resources, that can be integrated into your existing IT infrastructure. No need to worry about security, since it is part of your secure private network.

We combine world-leading VMware virtualisation software with carrier-grade data centre environments to create the perfect environment for your applications.

We take care of the hardware, the hosting and the virtualisation layer, letting you focus on the applications themselves.

Using VMware vCloud Director, you have full control of your virtual data centres, allowing you to change resources quickly and giving you the flexibility to turn virtual machines off and on as required via our secure web portal.

### vDC versus Public Cloud

vDC	Public Clouds
Packaged resources for specific purpose	Variable resources for a variety of purposes
Limited scalability	Infinite scalability
Simple setup	Complex setup
Easy migration (image-based)	Complex migration (template-based)
Fixed costs	Variable costs (eg data transfer)
hSo 24/7 support	Mostly faceless



### Technical Specifications

- Stretched cluster architecture by VMware
- Software-defined Storage - vSAN
- SSD and SAS storage
- LD5 (Slough) and LD8 (London)
- Multi 10G networking
- Integrated NSX edge gateways (firewalls)
- Integration with your Hybrid Cloud
- Veeam integration

## 04

## Benefits

- Exploit a common pool of resources such as compute, memory, storage and bandwidth.
- VMware technology for full compatibility with any VMware environment
- Support the interoperability of applications and transfer of workloads
- Manage and reconfigure resources of you vDC with the VMware vCloud Director
- Predictable pay as you go price structures: allows you to create as many virtual machines as you need and only pay for allocated resources when servers are running
- SLAs with your needs in mind
- Increased business agility and IT resources focused on operational activities and business development
- Easy lift and shift migration of workloads



### Completely Secure and Private

Built on your own secure network, your environment is private by default. We can control access to your VMs by combining firewalls, VPNs and dedicated circuits. You just choose whether your VMs are private or public.



### Robust Platform

We use multiple servers and locations. Our vDC solution is hosted in multiple world-class data centres in the UK, with redundant power and connectivity.



### Built for Backup

Your data is in safe hands. hSo vDC improves disaster recovery and business continuity by automating VM-level backups to all VMs in order to minimise the risk of data loss.



# 05

## Manage your vDC infrastructure on a single dashboard

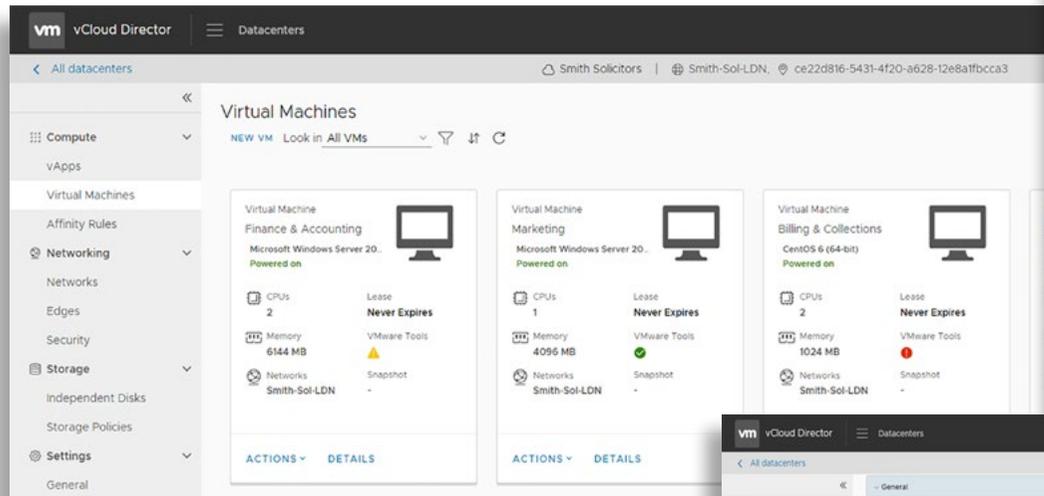
With so many operations running simultaneously, you need full visibility and access to your resources on your private virtual Data Centre network.

Using VMware vCloud Director, you have access to a self-service portal that gives you the freedom to automate and manage resources, instantly. Decide to add RAM, SAN storage, bandwidth to your VMs – without downtime.

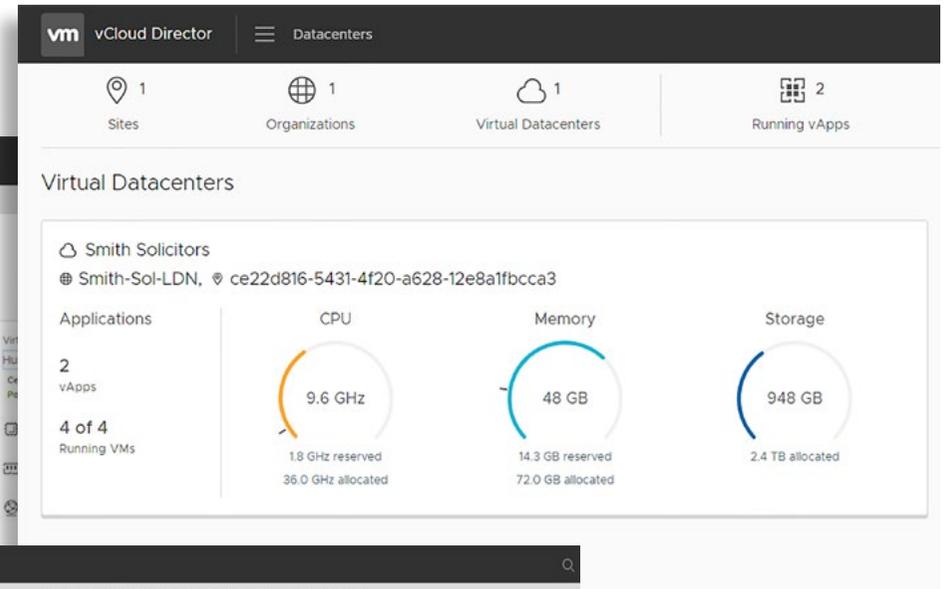


# VMware vCloud Director

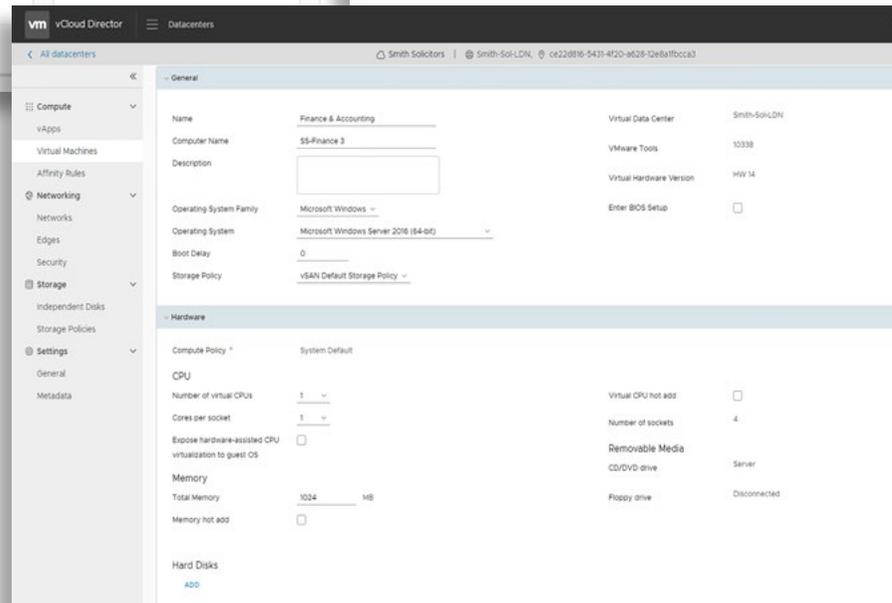
Transparent view of virtual machines on your private network



Manage, allocate and control resource usage

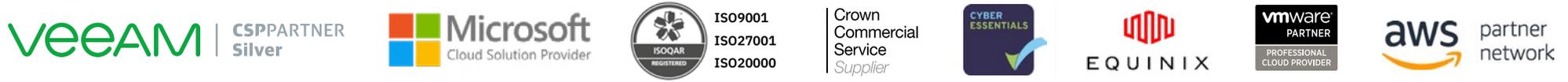


Dashboard overview of resources on your vDC



# Your Cloud & IT Infrastructure Service Partner

- We understand your needs and offer guidance to selecting appropriate cloud solutions
- Enterprise-class data centres ensuring a high-standard of service consistency, technical support and application uptime
- Fully managed service from deployment, advanced monitoring, migration support to disaster recovery
- Expertise in advanced data and communication technologies and thought-leader in innovative solutions
- Service Level Agreements with your needs in mind and emphasising our level of commitment to you
- London-based team of technical experts on-call 24/7/365 to support you – anytime, anywhere
- Trusted by leading UK organisations



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