

OneCloud Hypervisor

PRIVATE AND PUBLIC CLOUD AS ONE INFRASTRUCTURE

In 2016, a survey was performed with over 1060 professionals across a broad cross-section of organizations about their adoption of cloud computing. The result: OCH will transform the way organizations plan and execute their cloud strategies.

HYBRID by the numbers

- Private cloud adoption increased from 63% to 77%.
- 82% of enterprises have a hybrid cloud strategy
- 95% of organizations surveyed are running applications or experimenting infrastructure-as-a-service
- 17% of enterprises now have more than 1000 VMs in public cloud
- Enterprises are running in an average 1.5 different public clouds and 1.7 private clouds

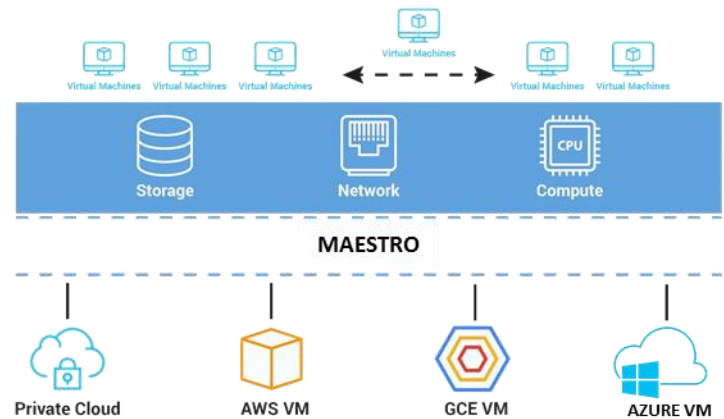
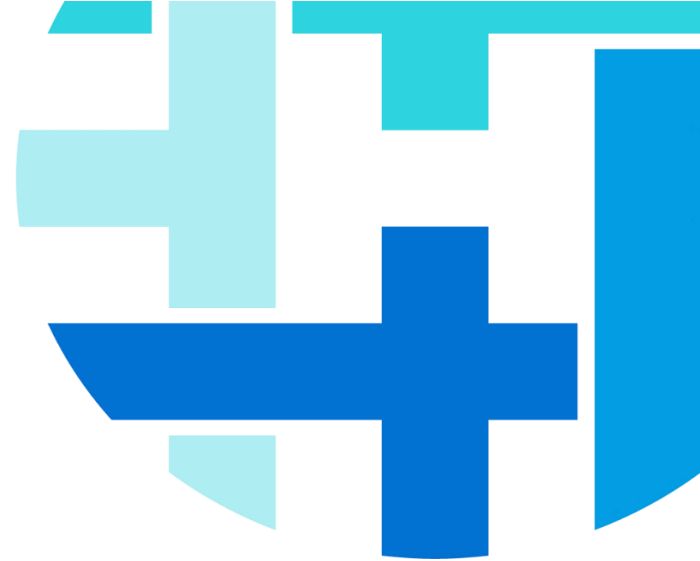
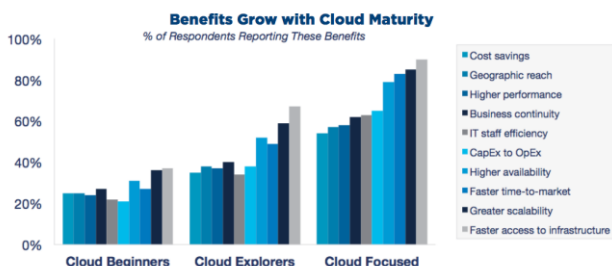
26 percent of respondents identify cloud cost and management as a significant challenge in adoption where few companies can find ways to significantly optimize costs.

MULTI-CLOUD in one cloud

A multi-cloud deployment facilitates fault tolerance strategies that can withstand the failure of an entire provider. Furthermore, it offers new resource management and economic alternatives to would-be cloud companies that are already managing their own elaborate private cloud infrastructures. If well integrated with private clouds, public clouds will provide an outlet for excess load or growth.

HTBASE advocates a business-centric approach, delivering an unprecedented level of control over the virtualization, storage and network layer available in the public cloud, where organizations can run unmodified VMs on any cloud, without any special provider support.

We introduce the **One Cloud Hypervisor (OCH)**, a thin, immediately deployable composable layer that homogenize today's diverse cloud infrastructures.



INTEGRATED cloud future

The OCH layer exposes a homogeneous layer across multiple environments. With OCH, composable, hypervisor and storage level functionalities as well as management tools, like VM migration and more.

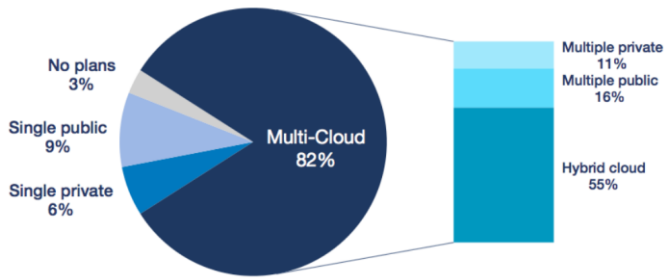
OCH successfully homogenizes the diverse public cloud environments where companies can migrate their VMs to and from Amazon EC2 with no modifications to the VMs. Furthermore, the user-centric design of OCH affords companies the flexibility to better control VM resources such as network, memory, and disk. As a direct result, an OCH image on EC2 can host 40 CPU intensive VMs for **47% of the price** per hour of 40 small instances with matching performance

BOUNDARIES are gone

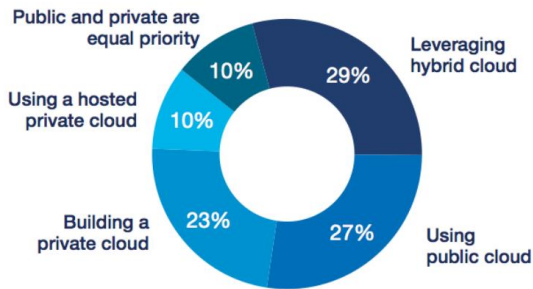
OCH homogenizes and simplifies the process of migrating a VM between two clouds managed by two different providers. While it is possible to migrate VMs between multiple clouds today, the process is cloud-specific and fundamentally limited. For example, it is currently impossible to live migrate a VM between different cloud providers. Also, its impossible to store a copy of your VMs disk in one cloud provider and the other copy in another provider and, in case one fails, your VM is brought up in a matter of seconds in the secondary public cloud provider.

SURVEY insights

Enterprise Cloud Strategy 1000+ employees



Top Priority for Enterprise Central IT



FOCUS on what matters

When migrating over your VMs between public and private cloud environments, your VMs network configuration is kept at all times, avoiding the need of manual reconfiguration as soon as your virtual machine is deployed into the new cloud provider, providing companies with a true software-defined network layer and freeing up resources to focus on what really matters, the business

Type	CPU (ECUs)	Memory (GB)	Disk (GB)	Price (\$/hr)
Small	1	1.7	160	0.085
Cluster 4XL	33.5	23	1690	1.60
Factor	33.5x	13.5x	10x	18.8x

Table 1. The resources on the Amazon EC2 instances do not scale up uniformly with price. The business-centric design of OCH allows organizations to exploit this fact.

OCH BENEFITS

COST

45% estimated cost reduction on public cloud costs

COMPOSABLE CLOUD

One cloud that converges public clouds, such as Amazon EC2 and Google Cloud, as well as private cloud and infrastructures, all managed from a single interface

VIRTUAL MACHINES MOBILITY

Move virtual machines without having to reconfigure networks with a Software-Defined Storage and Network layer that spans across your private and public cloud

GAIN CONTROL

Granular control as you scale out storage across different clouds, including choice of where replicas of the virtual machines and data will be

COMPOSABLE INFRASTRUCTURE

All the benefits you get from **Maestro** as your **COMPOSABLE INFRASTRUCTURE** platform but now expandable to the cloud through OCH

Want to know more?

Schedule a demo today at
<http://www.htbase.com>

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