

Hybrid Cloud for the Enterprise

Research by Gary Chen, Research Manager, Software Defined Compute, IDC

There's no “standard” path to cloud

Companies begin with cloud in many different ways.

Organizations end up with very different mixes of:



On-premises/
public cloud



SaaS, PaaS,
and IaaS



Cloud native
and traditional
applications

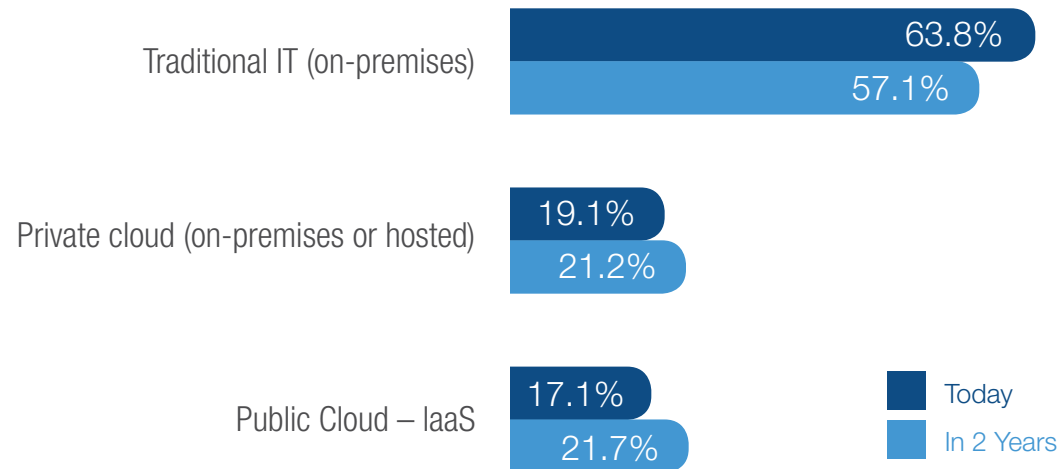


Cloud usage for dev, test,
production, and mission-
critical applications



Use cases such as disaster
recovery, backup, datacenter
replacement, and burst
capacity, among others

Public and private cloud are growing at the expense of traditional IT



Source: VMware on AWS Cloud Survey, IDC, June 2017, n=753

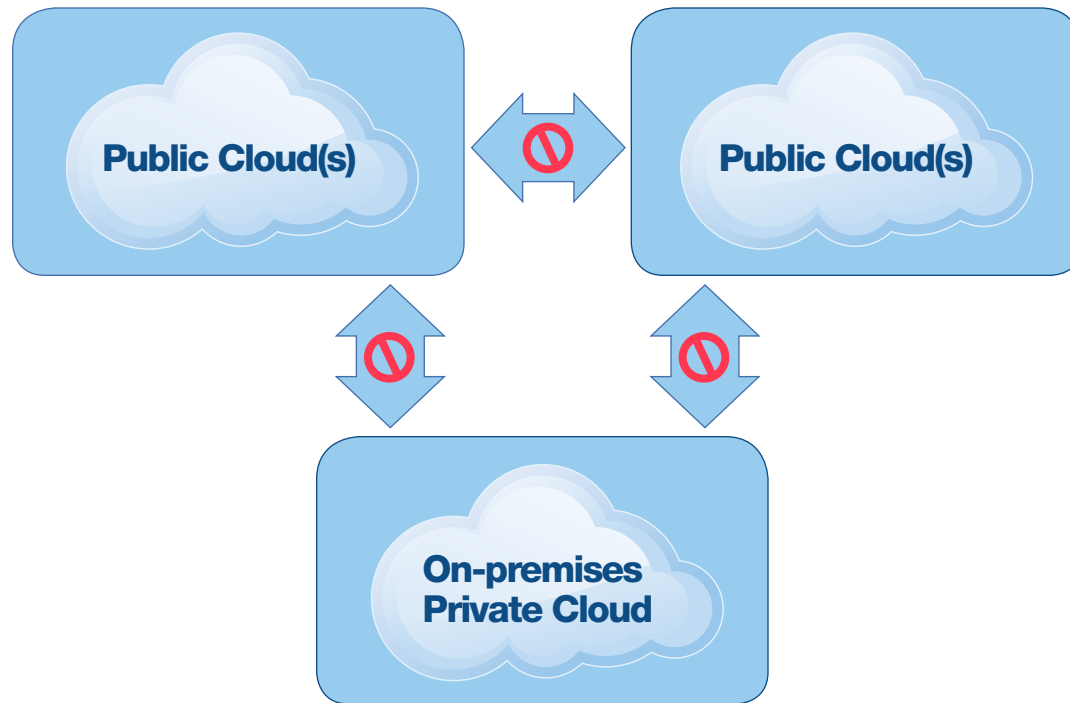
Most organizations will end up using **BOTH** on-premises and public cloud.



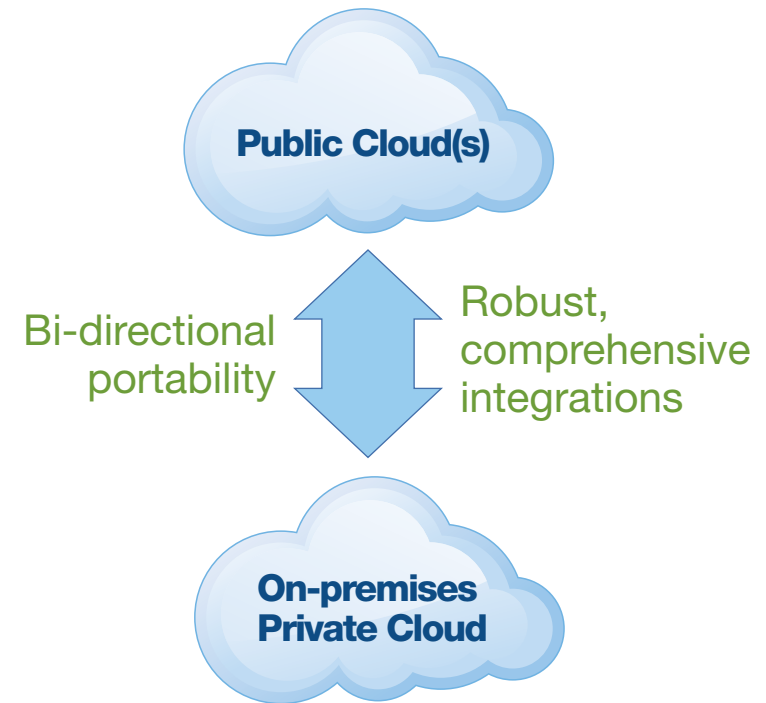
The priority going forward is how to manage and integrate across diverse environments, **avoiding building more silos.**

Hybrid cloud is defined by integration

Multicloud

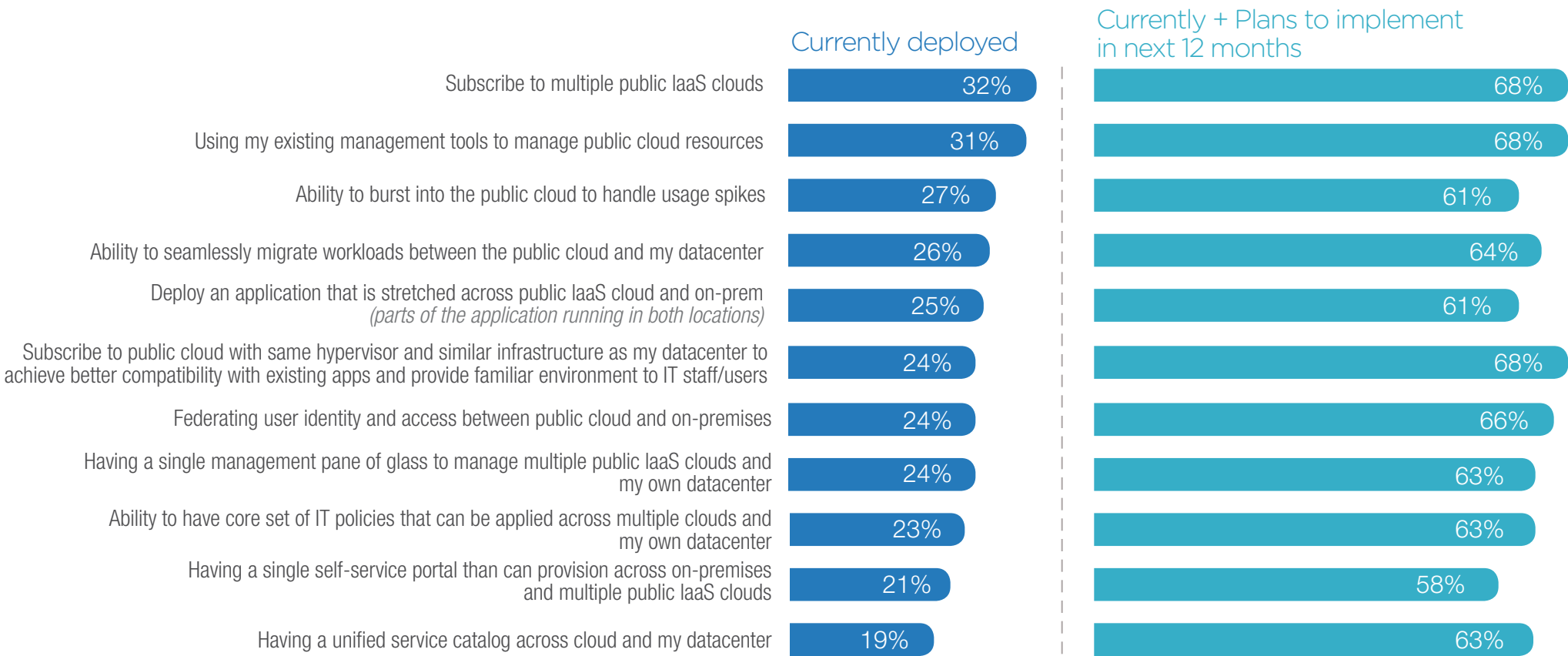


Hybrid Cloud



The many faces of hybrid cloud integration

Many types of integration are needed for a robust and completely seamless hybrid cloud.



Source: VMware on AWS Cloud Survey, IDC, June 2017, n=753

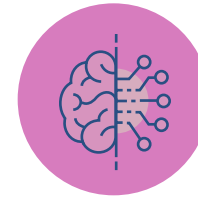
Challenges to achieving hybrid cloud



Differing infrastructures (hypervisor, VM format, networking, and storage, among others)



Different sets of management tools



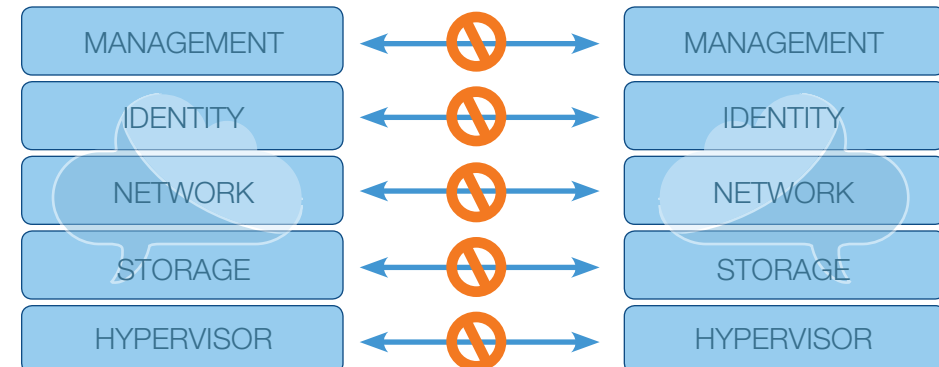
Skills



Operational differences

On-Premises Datacenter

Public Cloud



Consistent infrastructure = seamless integration



Bi-directional portability



Consistent operations



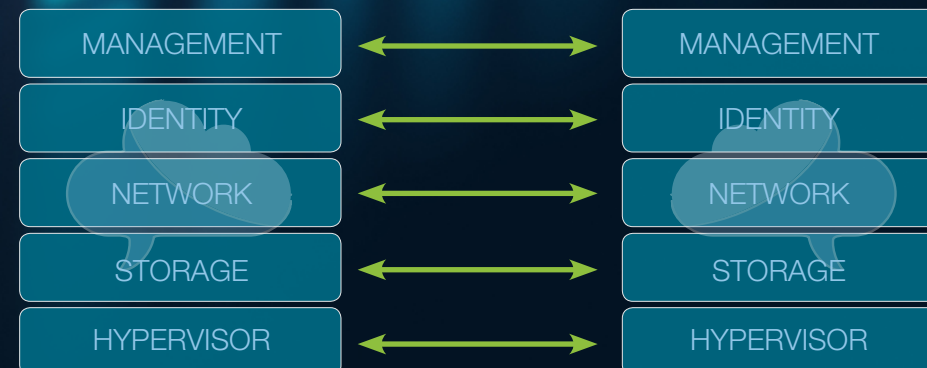
Transparent integration at all layers



Unified skill set and team

On-Premises Datacenter

Public Cloud



Seamless hybrid cloud use cases



Datacenter Extension

- On-demand capacity (regional, seasonal, temporary, burst)
- Footprint expansion (net new capacity for specific need, such as test/dev)
- Disaster recovery
- Backup



Cloud Migration

- Datacenter-wide migration/evacuation
- Infrastructure refresh (substitute old on-premises with new in public cloud – typically for category or tier of workloads)
- App-specific migration

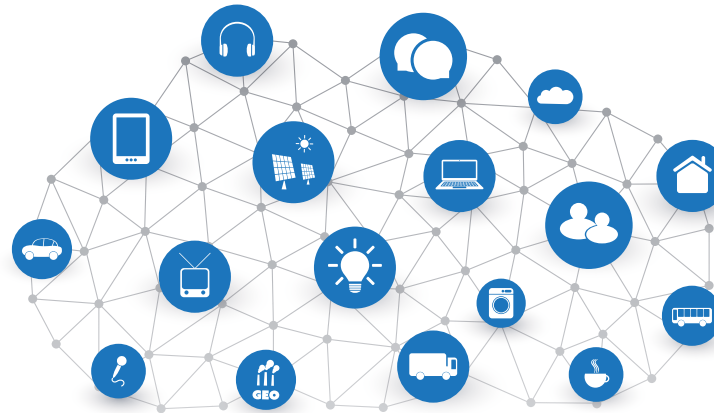


Next-gen Applications

- App modernization
- New app build-out
- Hybrid applications

Methodology

The data presented in this InfoBrief comes from a custom IDC survey sponsored by VMware in June 2017 (n=753).



IDC analyst profile



Gary Chen

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Gary Chen is IDC's Research Manager, Software Defined Compute. His research focuses on server virtualization, container infrastructure and management, and cloud system software (system software used to build IaaS clouds). Mr. Chen has also done extensive IT consulting with numerous businesses in the retail, e-commerce, healthcare, and publishing industries, he was overseeing software development, technical support, and datacenter operations.

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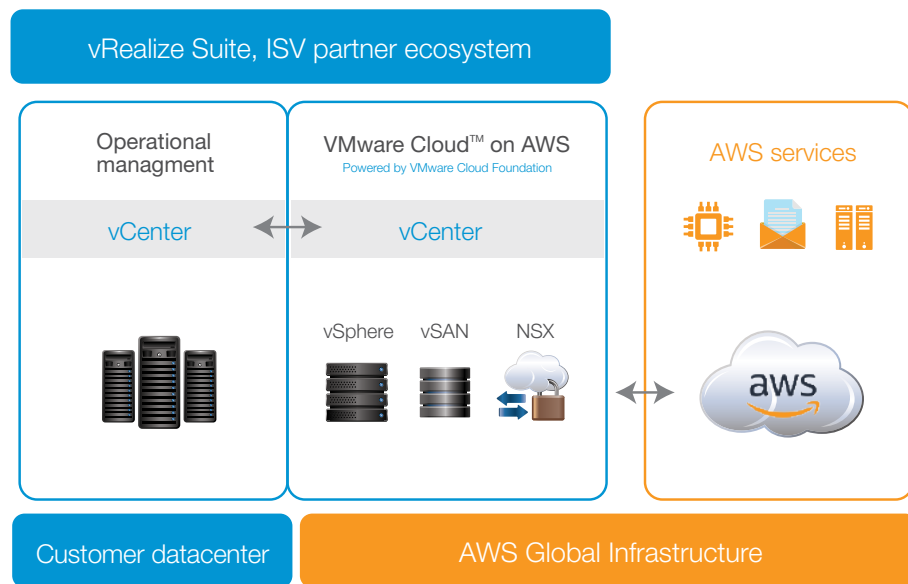
Message from the Sponsor

A Closer Look at VMware Cloud on AWS

VMware Cloud on AWS is powered by VMware Cloud Foundation, a unified SDDC platform that integrates VMware vSphere, vSAN and NSX virtualization technologies, and will provide access to the broad range of AWS services, together with the functionality, elasticity, and security customers have come to expect from the AWS Cloud.

You can find more in-depth information on this topic by downloading the IDC white paper, "[Attaining a True Seamless, Integrated Hybrid Cloud](#)", sponsored by VMware.

VMware Cloud on AWS



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- On-demand capacity and flexible consumption
- Full operational consistency with on-premises SDDC
- Seamless workload portability and hybrid operations
- Global AWS footprint, reach, availability
- Direct access to native AWS services

For more information please visit
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