



Open Cloud Strategies for better Business Outcomes

Mohamad Baalbaki
Cloud SSP - MENA



DIGITAL TRANSFORMATION IS REQUIRED

IT LEADERS MUST BE WILLING TO CHANGE

"With everything in play, digital business will demand a far more complex technology transformation than what took place in the previous decades in areas such as e-business for online transactions."

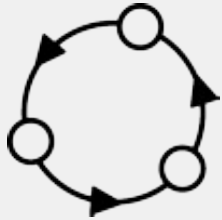
Gartner, October 2016

I.T. IS CHANGING

DIGITAL TRANSFORMATION IS HERE

| THEN | NOW |
|-------------------------------------|---|
| IT is a supporting cost center | Technology creates new revenue streams |
| Established industry structures | |
| Ad-hoc decision making | Data-driven, real-time response and analytics |
| Multi-year product cycles | Rapid, iterative service refreshes |
| Focus on individual product success | Achieve ecosystem scale |

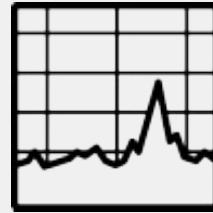
DRIVERS FOR CLOUD ADOPTION



Agility



Cost savings



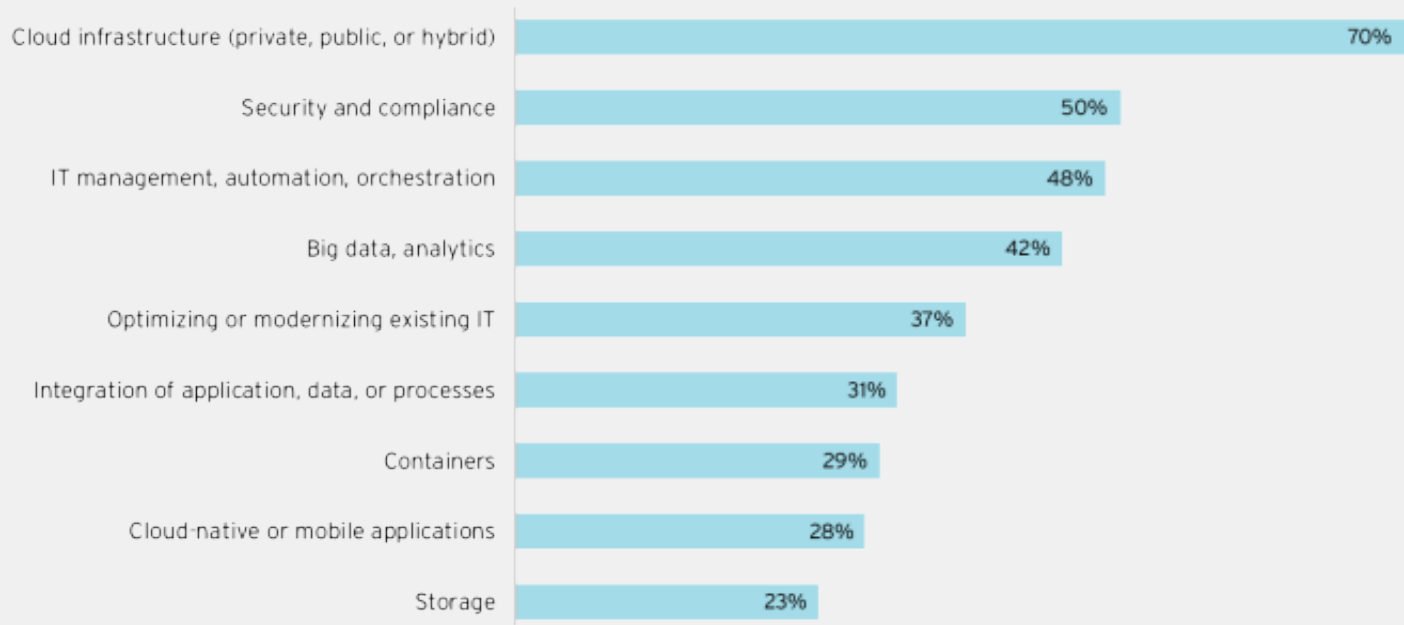
Time to market



Vendor freedom

CLOUD IS TOP I.T. FUNDING PRIORITY

What are your organization's top IT funding priorities for 2017? (Select all that apply)



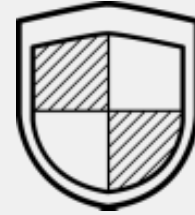
CLOUD ADOPTION CHALLENGES



Defined cloud
strategy



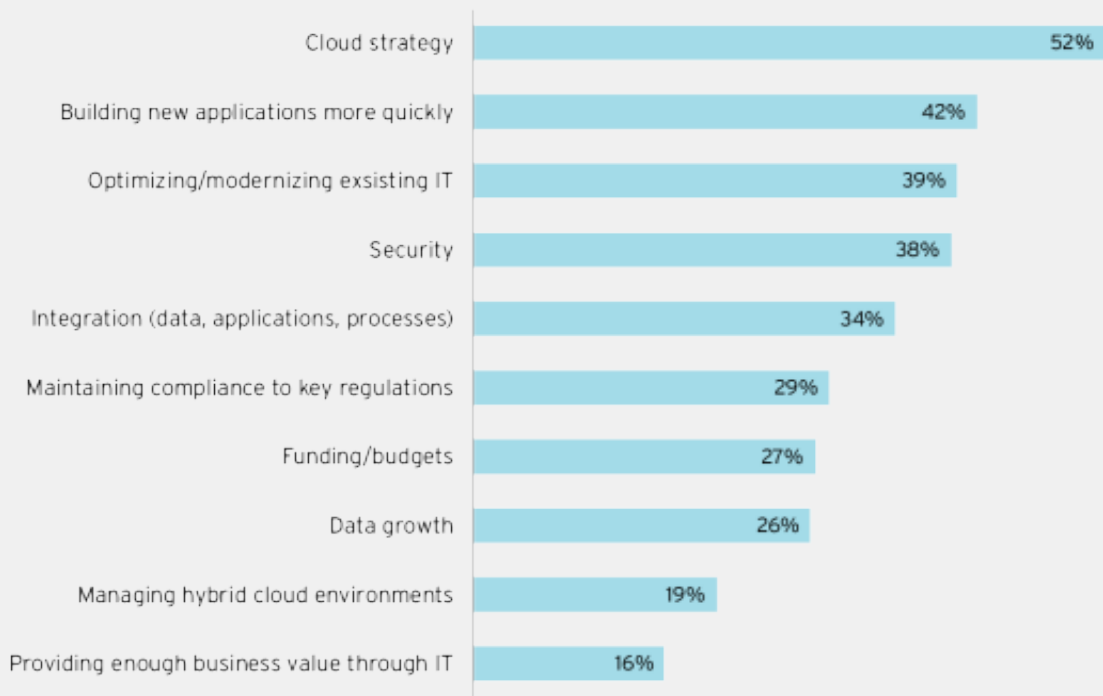
Institutional
knowledge gap



Security and
policy
constraints

CLOUD IS ALSO GREATEST CHALLENGE

What are your organization's greatest IT challenges for 2017? (Select all that apply)



CLOUD..... Quick Recap

CLOUD TYPES



PUBLIC CLOUD

For
example...



PRIVATE CLOUD

For
example...



MULTI-CLOUD

For
example...



HYBRID CLOUD

For
example...



WHAT IS MULTICLOUD?

A Red Hat perspective



MULTICLOUD

noun • \ muhl-tee \ klaud \

Using **multiple clouds** from multiple private or public providers, for multiple workloads/tasks, **without interconnectivity** between clouds.



HYBRID CLOUD

noun • \ hī-bred \ klaud \

A combination of **public** and **private** clouds, with some degree of workload portability, **integration**, orchestration, and unified management across said clouds.

INTERCONNECTIVITY IS THE KEY

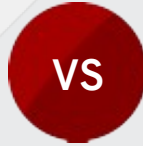


MULTICLOUD

aws



Microsoft Azure



HYBRID CLOUD

aws



WHAT CUSTOMERS ARE SAYING...

“

There is no scheduled mass migration to public cloud. We'll continue to integrate where it makes sense . . . , but we're not looking to transition entirely from one model to another

Senior Business System Analyst

American Insurance Company

January 24, 2018

WHAT ANALYSTS ARE SAYING...

“““

The future of cloud is a hybrid cloud...

LAURA NELSON

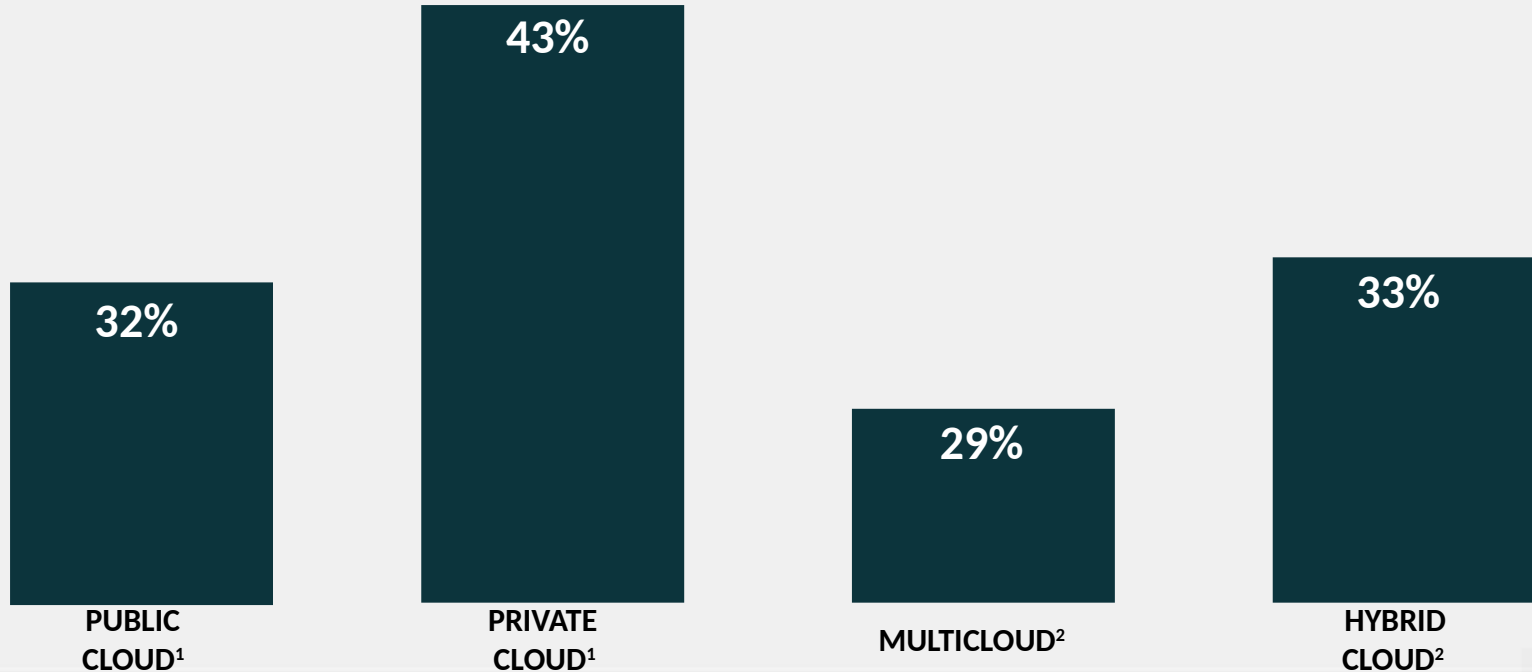
FORRESTER RESEARCH

January 24, 2018

Source: [The Story Of Cloud Migration: Public Is Here, But The Reality Is Hybrid](#), Forrester, January 2018.

WHAT ARE CUSTOMERS DOING?

ANALYSTS AND REAL-WORLD DATA HIGHLIGHT OPPORTUNITIES



¹ Source: RightScale: State of the Cloud Report 2017

² Source: 451 Research Voice of the Enterprise: Cloud Transformation, Q1 2017

So, Understand your Environment and Business Objectives

Things to consider in your current state.

Your

Data

(Proximity &
Control)

Your IT

(Capacity vs.
Business Growth)

Your
Speed &
Efficiency

(Time to Market)

Determine your best path forward

Understanding your options

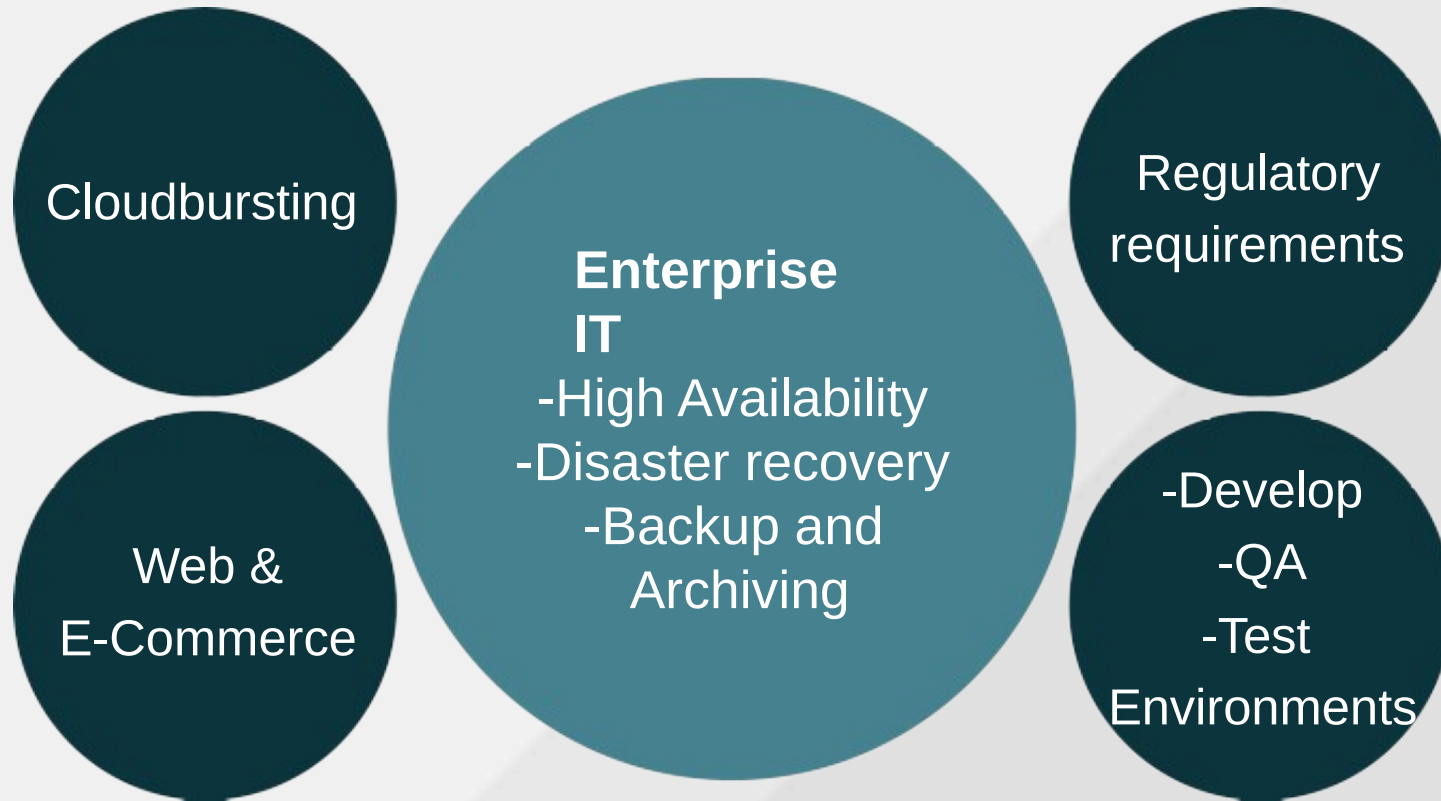
Choose
the cloud
mix that's
right for
you

Consider
Management

- security
- automation
- capacity

Don't lose
sight of
business
objectives

Here are some uses cases for a flexible, hybrid cloud:



What's your Cloud Architecture Strategy?



**THE MOST CRITICAL IT STRATEGY
DECISION THIS DECADE.**

THREE CHOICES.





**THROW OUT LEGACY
START FROM SCRATCH**



MIGRATION TO A HOMOGENEOUS INFRASTRUCTURE IS IMPRACTICAL



**Naively simple
for Enterprise**

MAY WORK FOR SERVICE PROVIDERS, BUT IMPRACTICAL FOR ENTERPRISES

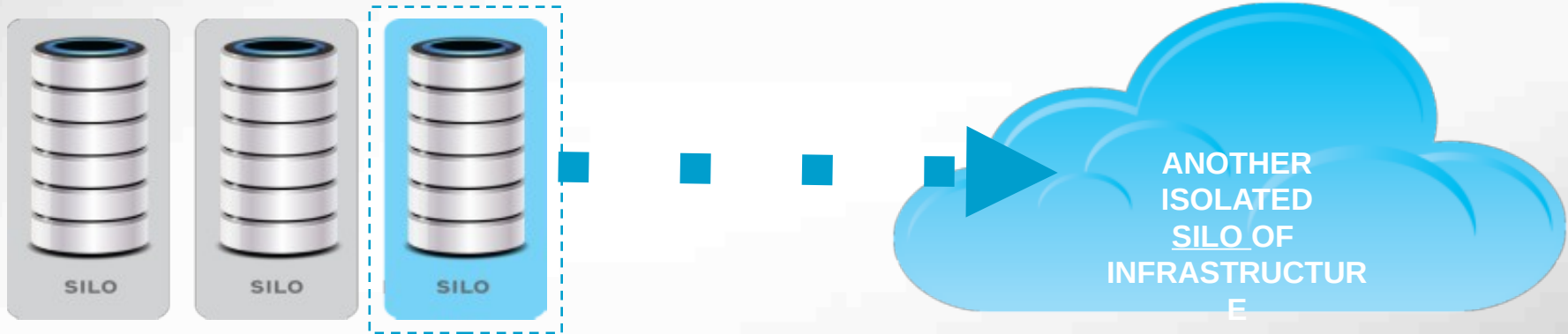




ADD A CLOUD SILO



BUILD A CLOUD FROM A SMALL PART OF YOUR INFRASTRUCTURE



A CLOSED CLOUD...
Now and forever

- X Increases management complexity
- X Brings cloud's benefits to a fraction of your infrastructure
- X Cuts off access to innovation
- X Prevents use of most emerging public clouds
- X Puts vendor in charge of your infrastructure options and your economics





**BUILD AN OPEN HYBRID CLOUD
OUT OF ALL YOUR RESOURCES**



BUILD AN OPEN HYBRID CLOUD OUT OF ALL YOUR RESOURCES, INCLUDING PUBLIC OPTIONS

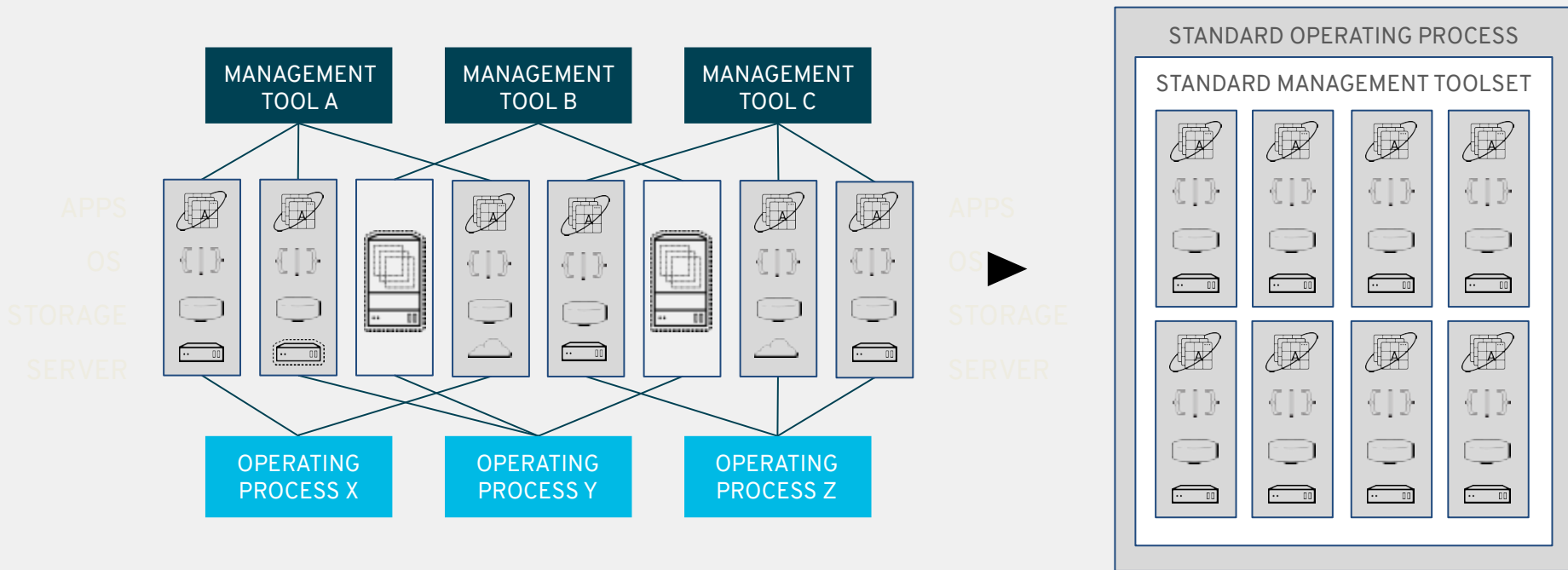


Make a cloud out of what you have

LEVERAGE EXISTING INVESTMENTS



Turn your Infrastructure **Silos** into **Unified** pools of Resources

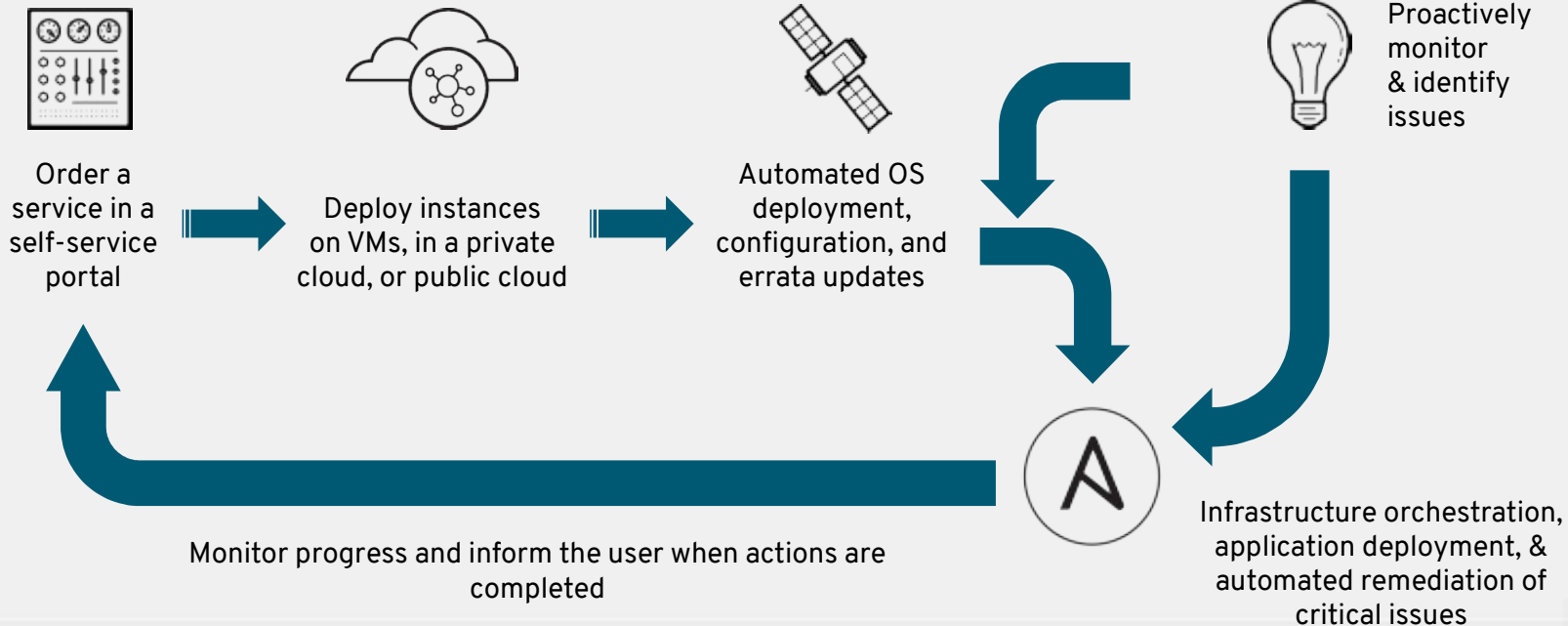




OPEN HYBRID CLOUD MANAGEMENT

Automated Service Provisioning

SELF-SERVICE, SYSTEM DEPLOYMENT, CONFIGURATION, & REMEDIATION



The Key Word: **OPEN**.....means

- Open source and **open standards** / Interoperable
- Engaged with **innovative** open source communities
- Provides interoperability, workload **portability**, and strategic **flexibility**
- Packaged, **secured, and supported** for **critical** deployments

WHAT ANALYSTS SAY ABOUT OPEN SOURCE

Open Source is driving cloud innovation

“”

The vast majority of **public cloud infrastructure in the market depends on open source software** for basic enablement, and especially for delivery of full functionality. We also see the use of open source software as being fundamental to a substantial portion of **private cloud infrastructure** in use, and certainly for supporting the run-time environment.

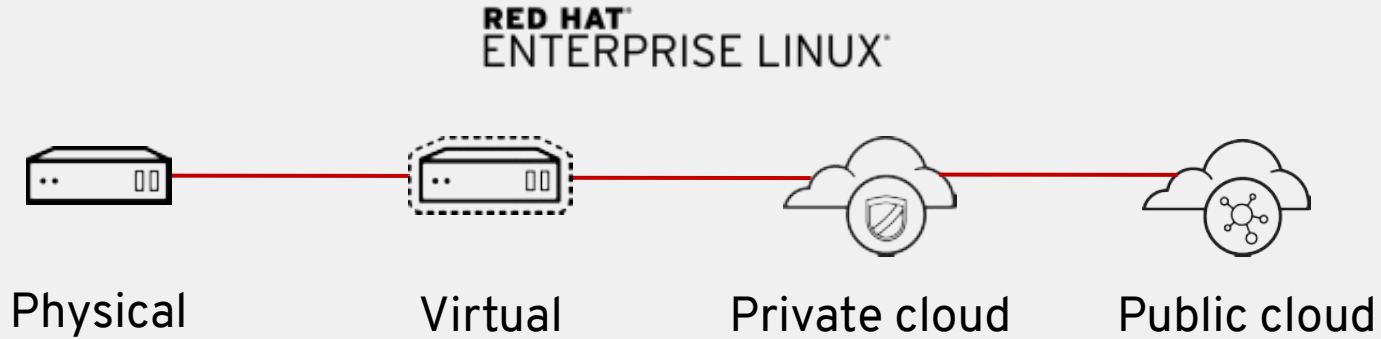
AL GILLEN

Group Vice President, Software Development & Open Source, IDC,
September 2017

Source: Approved comment from Al Gillen.

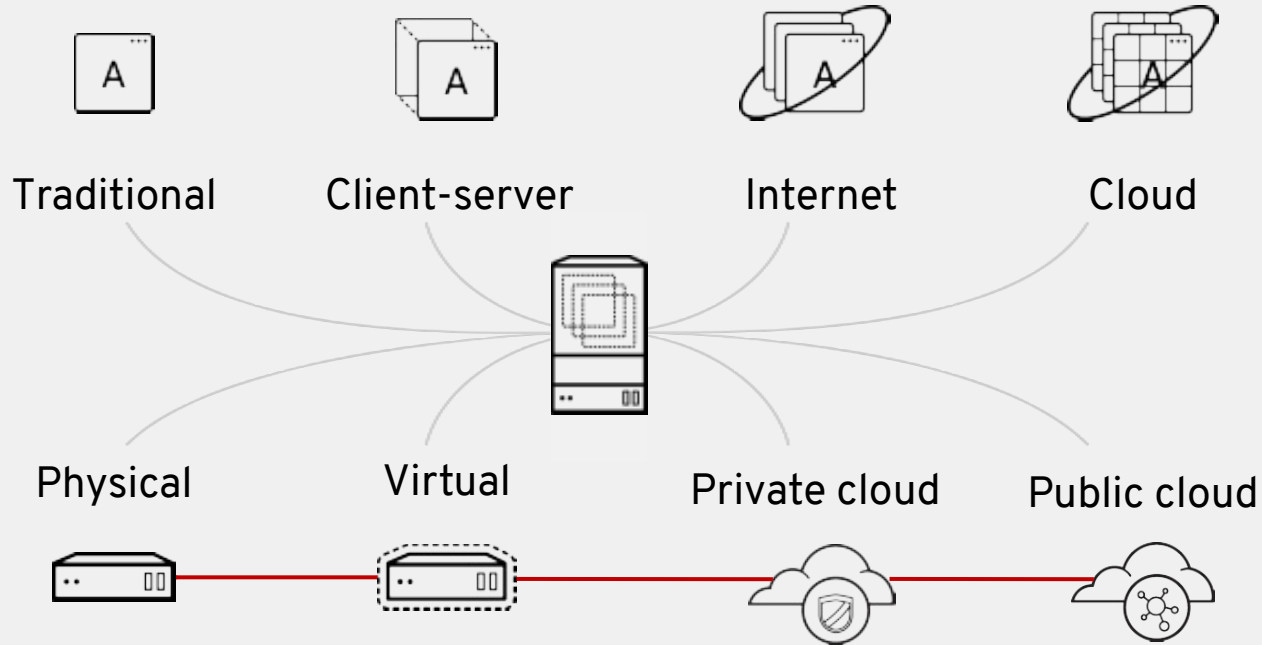
RED HAT'S VISION: OPEN HYBRID CLOUD

THIS IS THE REALITY FOR MOST ORGANIZATIONS.



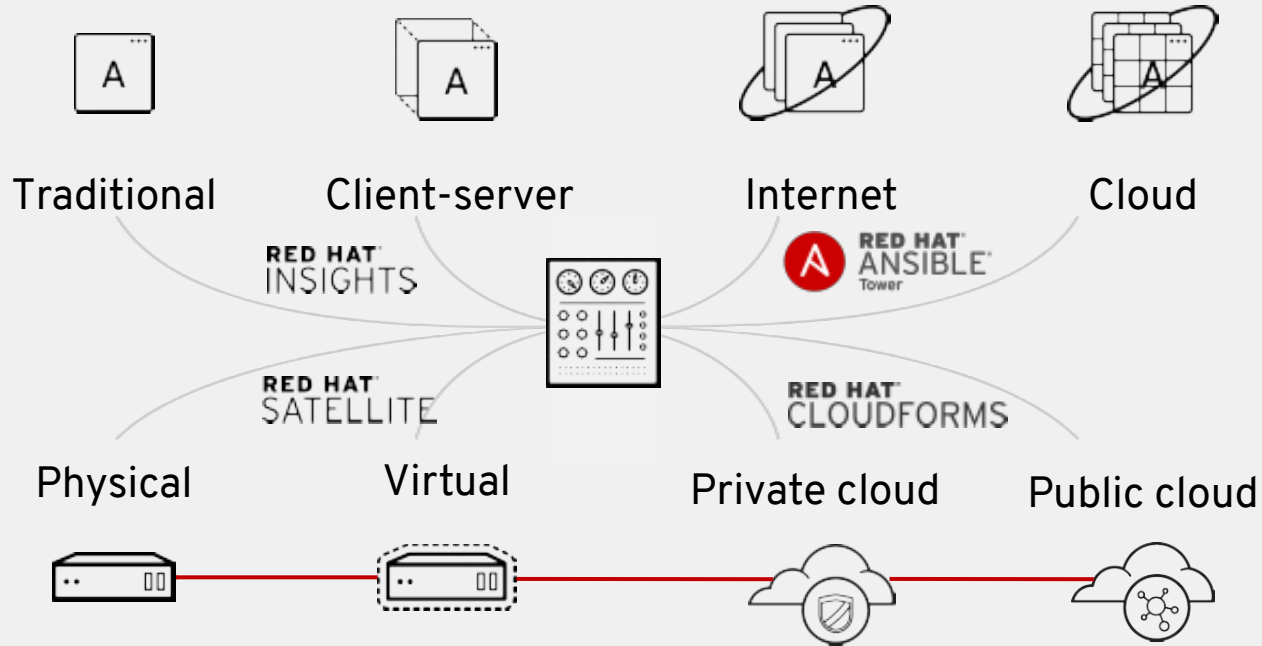
RED HAT'S VISION: OPEN HYBRID CLOUD

ALL KINDS OF APPS AND ENVIRONMENTS, INCLUDING CONTAINERS



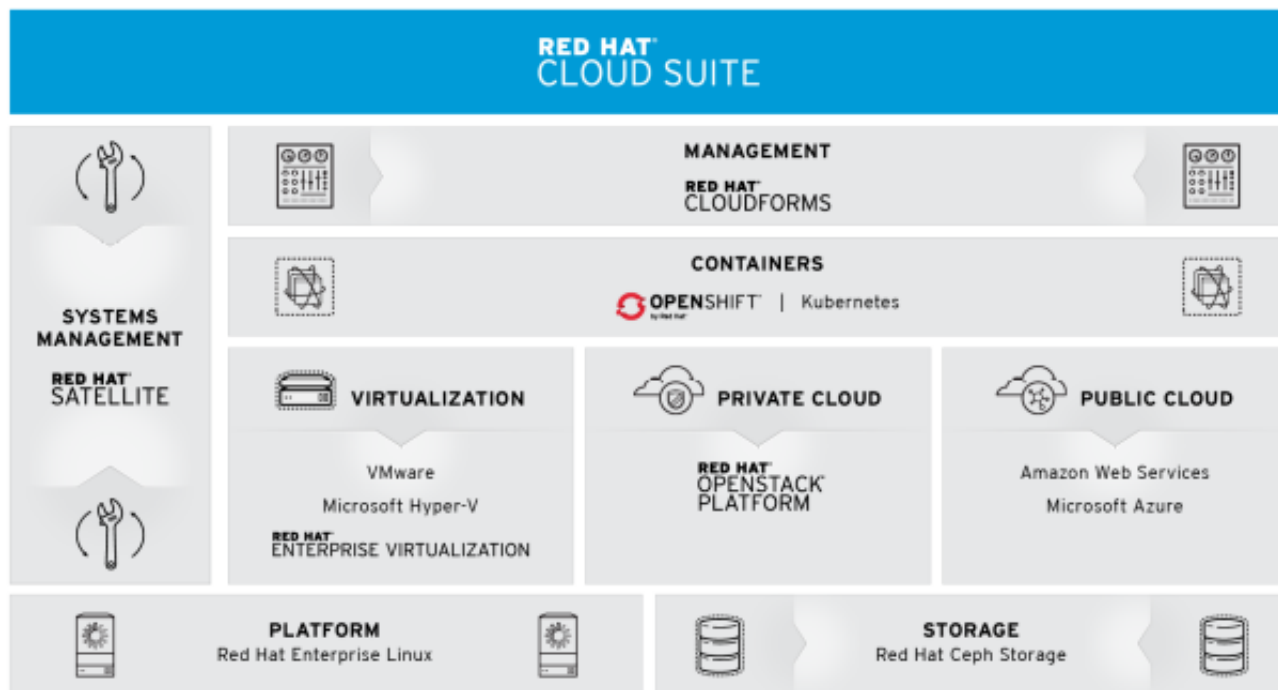
RED HAT'S VISION: OPEN HYBRID CLOUD

COMMON MANAGEMENT, INTEGRATION, AND AUTOMATION TO KEEP IT ALL GOING



IT'S ALL THERE!

COMPLETE TECHNOLOGY STACK FOR THE OPEN HYBRID CLOUD



CL0014-01

Your **Hybrid Cloud** Selection Criteria:



- Flexibility: Multi-hypervisor, Containers, Openstack, etc...
- Simplicity: One Product, Virtual Appliance, Open Automation
- Scalability
- Security and Regulatory Compliance: Automate, Scan, patch, monitor and control
- Integration: With exiting tools from any vendor
- Platform Compatibility: Today and Tomorrow Technologies
- Support: Enterprise support and Professional services
- Features: Rich, All in one, enables Innovation from Infrastructure to Application development
- Automation: Open, Simple, Rich ecosystem
- Cost: Shift Spending to where it really Matters

CUSTOMER EXAMPLES

PRIVATE CLOUD INFRASTRUCTURE



Infrastructure improvements to address massive scale and uptime, making deployment take minutes or hours instead of days or weeks.



European Bioinformatics Institute sought greater agility for advanced scientific research and gained the automation & flexibility needed at scale.



Transitioned to open source cloud environment, gaining greater stability at scale and faster time to market, with less downtime to production.

CUSTOMERS EXAMPLES

PUBLIC & HYBRID CLOUD



Achieving increased app/dev speed and agility with RHEL on AWS. SAP scale-out; traditional IT functions like LDAP moved to achieve CAPEX and reduce OPEX.



Volvo IT is using OpenShift Container Platform on Azure for increased speed to market for global services



Using RHEL on AWS for new e-commerce apps for speed to market, reduced data center costs.

CUSTOMER EXAMPLES

HYBRID CLOUD INFRASTRUCTURE



Gained a more reliable, application centric solution to bring applications faster to market across hybrid cloud, resulting in lowered costs and resources.



Added public and private cloud computing resources, dynamic and virtual environments, automation and configuration, and cloud management.



Found greater flexibility with 30% lower infrastructure costs and 60% lower storage costs with open source cloud, while improving overall agility.

THANK YOU