



*Lean Into Cloud: Lessons Learned,
What You Want to Know & Pit Falls to
Avoid on Your Journey!*

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▶ Lesson 1: Know your role in the cloud.

Just because you move an application or data to the cloud, does not mean you have no responsibilities.

The cloud leaves understanding what your data is and protecting it up to you.

Responsibility	On-Prem	IaaS	PaaS	SaaS
Data classification & accountability	Cloud Customer	Cloud Customer	Cloud Customer	Cloud Customer
Client & end-point protection	Cloud Customer	Cloud Customer	Cloud Customer	Cloud Customer
Identity & access management	Cloud Customer	Cloud Customer	Cloud Customer	Cloud Customer
Application level controls	Cloud Customer	Cloud Customer	Cloud Customer	Cloud Customer
Network controls	Cloud Customer	Cloud Customer	Cloud Provider	Cloud Provider
Host infrastructure	Cloud Customer	Cloud Customer	Cloud Provider	Cloud Provider
Physical security	Cloud Customer	Cloud Provider	Cloud Provider	Cloud Provider

Legend: ■ Cloud Customer ■ Cloud Provider

► Yes, it happens...



AWS – 2015

MS Azure, 2017

AWS EBS Volume Data Loss - US-GovCloud-WEST-1A – 31-Dec-2015

Some Microsoft services in the Azure public cloud became unavailable to European customers for seven hours. GitLab's popular online code repository, GitLab.com, suffered an 18-hour service outage that ultimately couldn't be fully remediated. The problem resulted when an employee removed a database directory from the wrong database server during maintenance procedures.

GitLab, 2019
Case ID: ##### Subject: Your EBS volumes in us-gov-west-1
Your volume experienced a failure due to multiple component failures and suppression gas, automatically triggering a shutdown of the air conditioning system, which raised the ambient temperature in the facility forcing automatic shutdowns of computing systems. In an apology to users, GitLab's CEO said: "losing production data is unacceptable. We recommend that you replace the failed volume with a new volume from a backup".

. We have not detected an Amazon EBS snapshot of this volume, but understand that you may have created other backups. Amazon EBS

Snapshots are a good way to take point-in-time backups of your data, and a good way to increase the durability of your data. For more information, see

▶ Lesson #2: 88% of cloud projects hit unexpected challenges*

- Pricing -- 38 percent
- Performance -- 38 percent
- Support -- 36 percent
- Downtime -- 35 percent
- Management of cloud services -- 33 percent
- Scalability -- 33 percent

▶ All is not lost!

“Applications that were not a fit for the public cloud two years ago may be ideal candidates today due to the rapid innovation and improvement of public cloud services.”

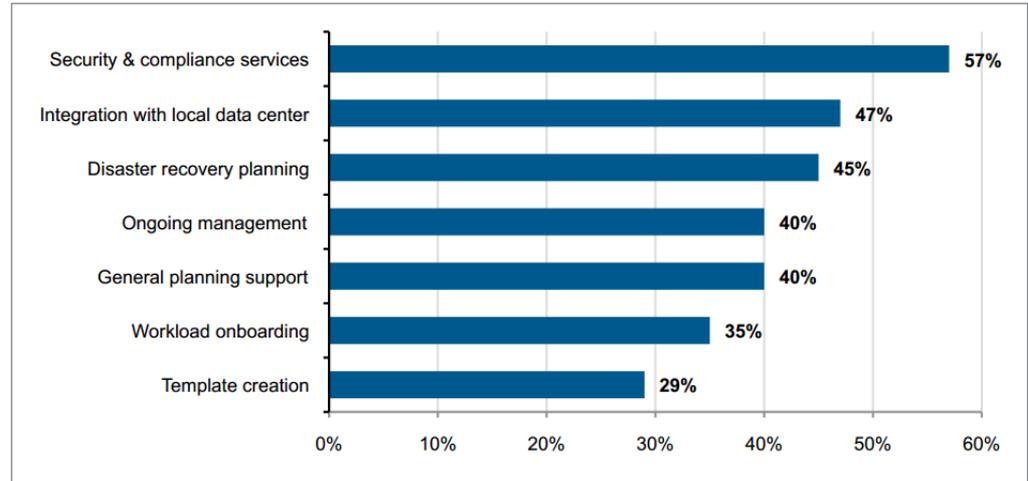
– Gartner “2017 Planning Guide for Cloud Computing”



Design a plan built around agility
and that issues will arise!

▶ Lesson 3: Go after easy wins first

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Commvault Customers have over 100PB+ Data in the Cloud

COMMVAULT 

TURN YOUR CLOUD STRATEGY INTO AN OPERATIONAL REALITY.

HOW?



Commvault's approach to cloud adoption helps you:

- Get to the cloud faster
- Reduce risk during transition
- Automate more processes in the cloud

All of which deliver **BIG SAVINGS**



TRUE WORKLOAD PORTABILITY



ENABLE DISASTER RECOVERY:

- To and from the cloud
- As-a-service
- On demand

0 ALL WITH ZERO VENDOR LOCK-IN



The Value of Commvault for the Cloud

Commvault provides the only integrated data platform to move, manage and use data across on-premises and cloud locations with comprehensive data management and protection for data across files, applications, databases, hypervisors, SaaS, and clouds. With over 50+ cloud platforms including Amazon, Microsoft, Google, Oracle and others our capabilities for granular management, backup, recovery, archive, DR, compliance and e-discovery.



DOW JONES' MOVE TO AWS WITH COMMVAULT



Commvault supports more cloud storage platforms than any other vendor

COMMVAULT 

AGILE DATA RECOVERY IN THE CLOUD

Common ways enterprises use Commvault and Azure





Thank you