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EUROPE
OPEN NETWORKING //
Integrate, Automate, Accelerate

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Amsterdam, The Netherlands

3 PITFALLS EVERYONE SHOULD AVOID WITH HYBRID MULTICLOUD

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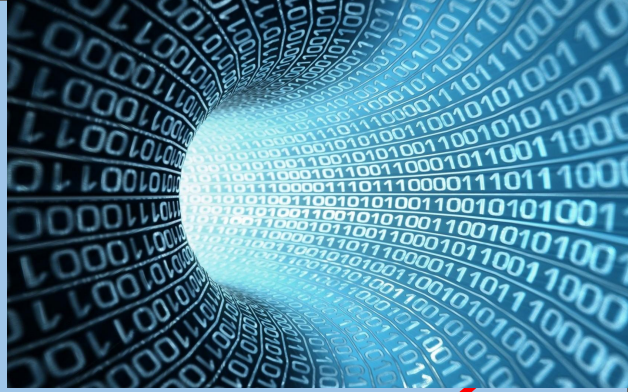
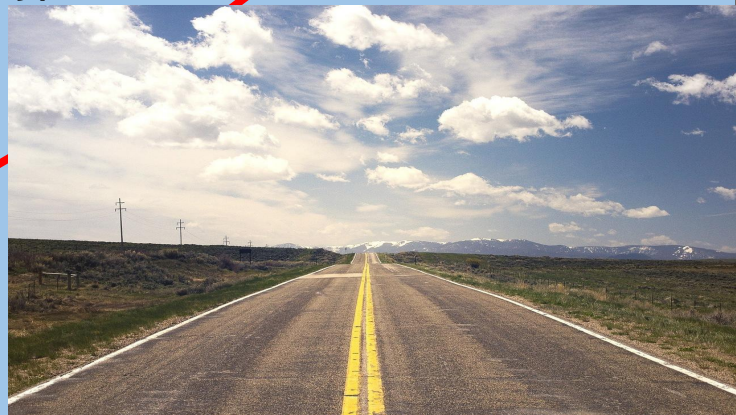
Cost not obvious motivator



Data… Data…

Technology in cloud



What's Multicloud

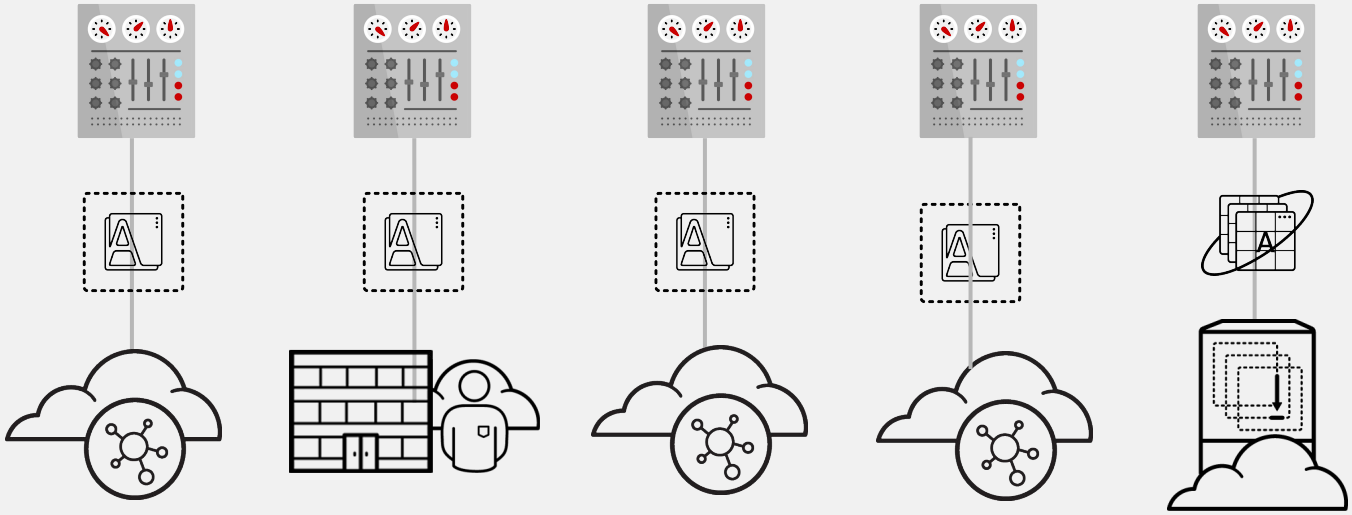
Multicloud *is literally using multiple clouds from multiple providers for multiple tasks. Typically, multicloud refers to the use of several different public clouds with the goal of achieving greater flexibility, lowering costs, avoiding vendor lock-in, or using specific regional cloud providers.*

One of the challenges of multicloud is achieving consistent policies, compliance, and management.

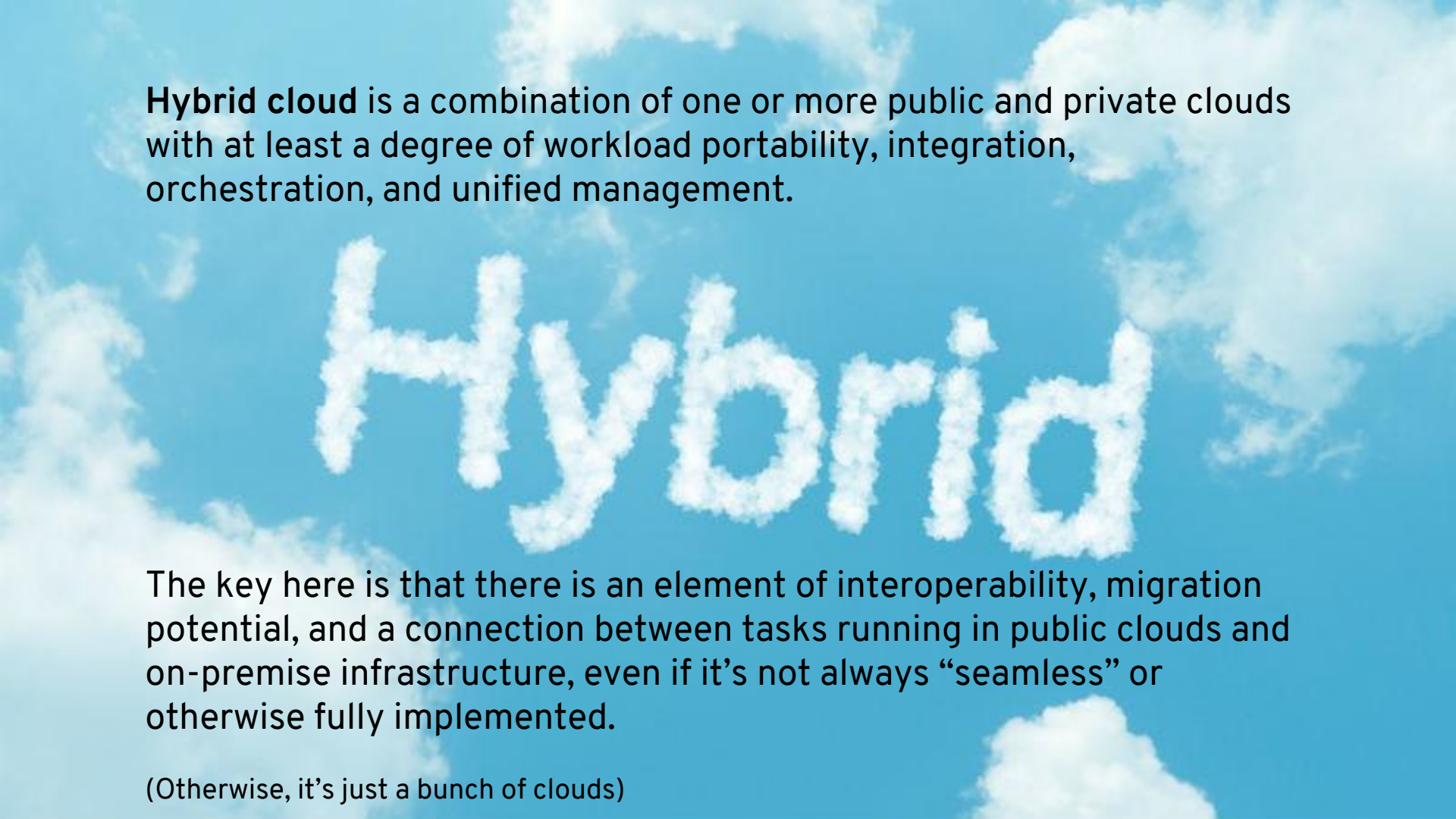
Multicloud is more of a strategy.

MULTICLOUD

AN IT ENVIRONMENT WITH MULTIPLE CLOUD ENVIRONMENTS, MANAGED SEPARATELY, WITH APPLICATIONS ISOLATED BY ENVIRONMENT



Hybrid cloud is a combination of one or more public and private clouds with at least a degree of workload portability, integration, orchestration, and unified management.

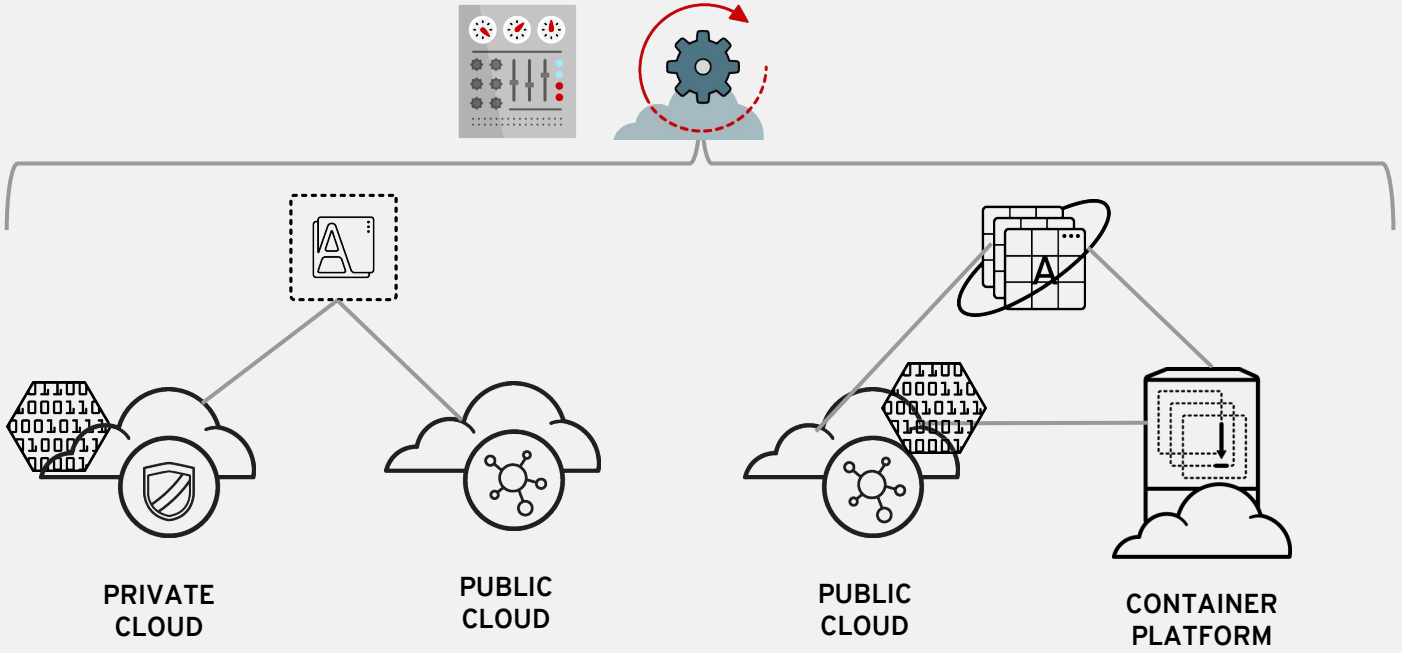


The key here is that there is an element of interoperability, migration potential, and a connection between tasks running in public clouds and on-premise infrastructure, even if it's not always "seamless" or otherwise fully implemented.

(Otherwise, it's just a bunch of clouds)

HYBRID CLOUD

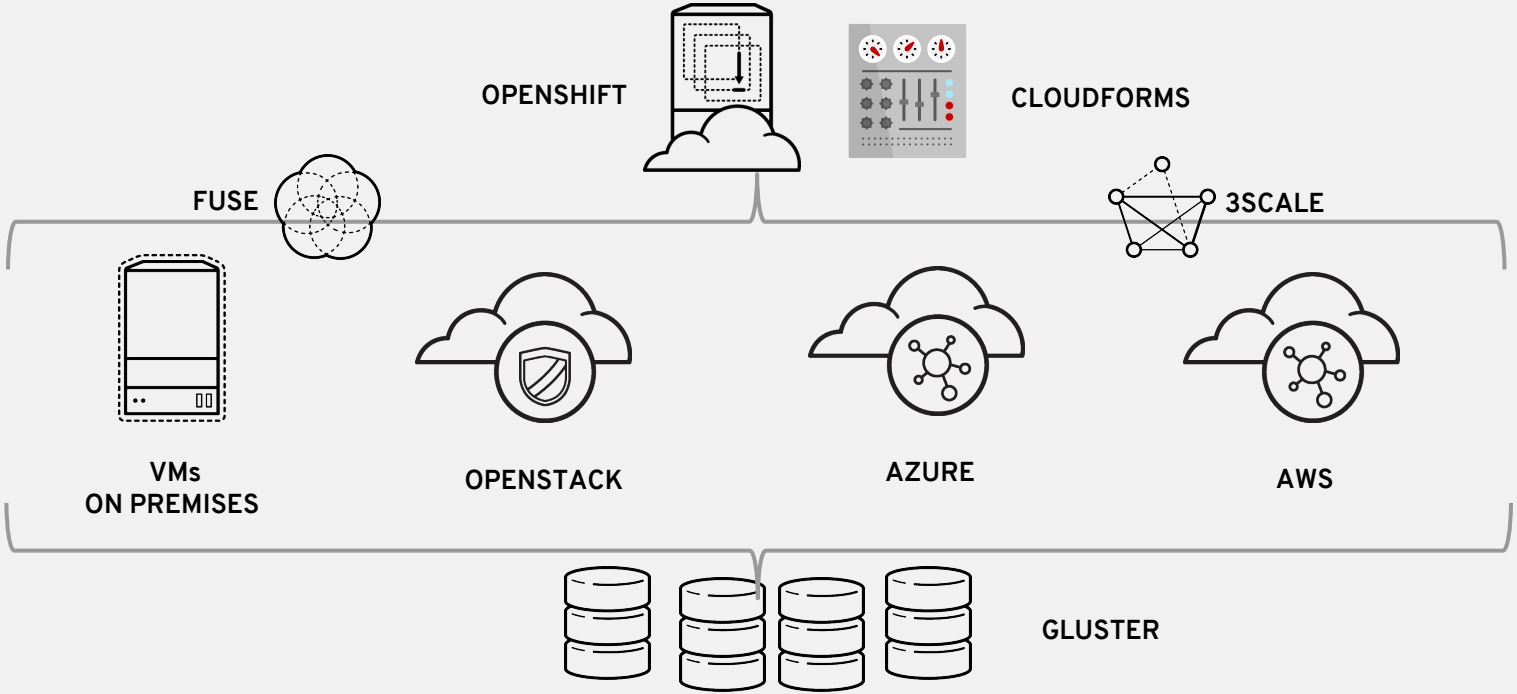
AT LEAST ONE PUBLIC AND PRIVATE CLOUD (OFF & ON PREMISES) THAT HAVE A DEGREE OF INTEROPERABILITY, APPLICATION OR DATA PORTABILITY OR COMMON MANAGEMENT



redhat.

HYBRID & MULTICLOUD IN ACTION

A customer implemented a hybrid development platform based on Red Hat OpenShift Container Platform deployed across a multicloud environment with Microsoft Azure and AWS plus on-premises virtualization and private cloud with Gluster Storage, CloudForms, Fuse and 3Scale helping make it all work together.



1. Cost: not always the obvious motivator

Poll question #1

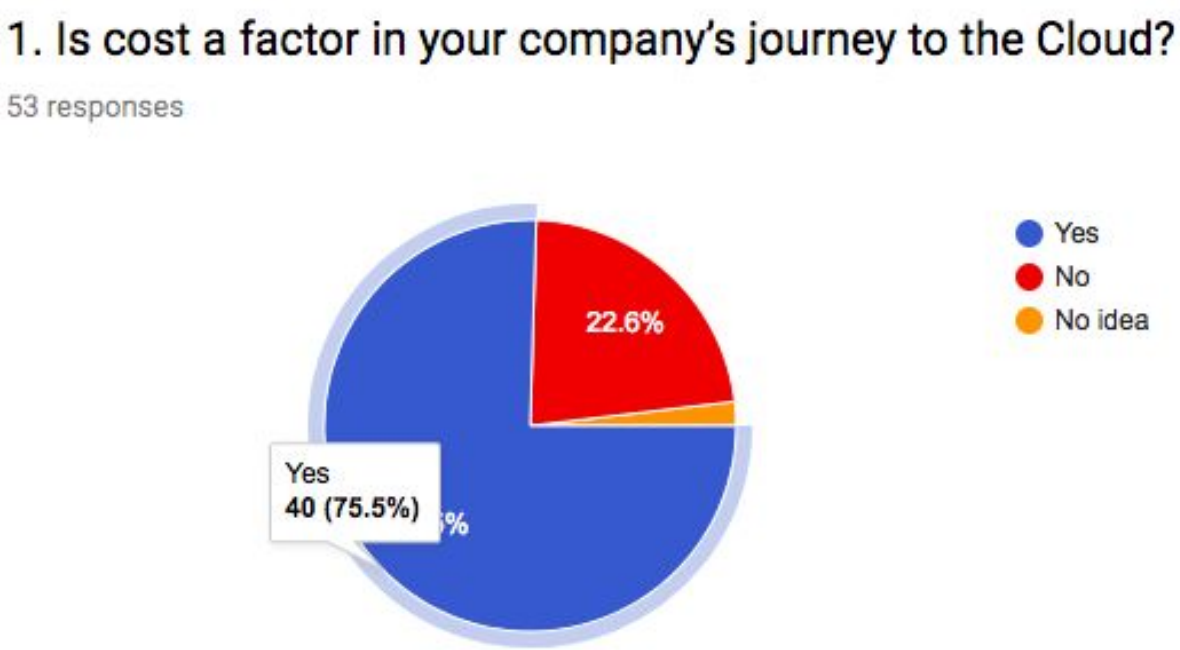
Audience participation requested

Is cost a factor in your company's journey to the Cloud?

http://bit.ly/ons3pitfalls

Poll question #1

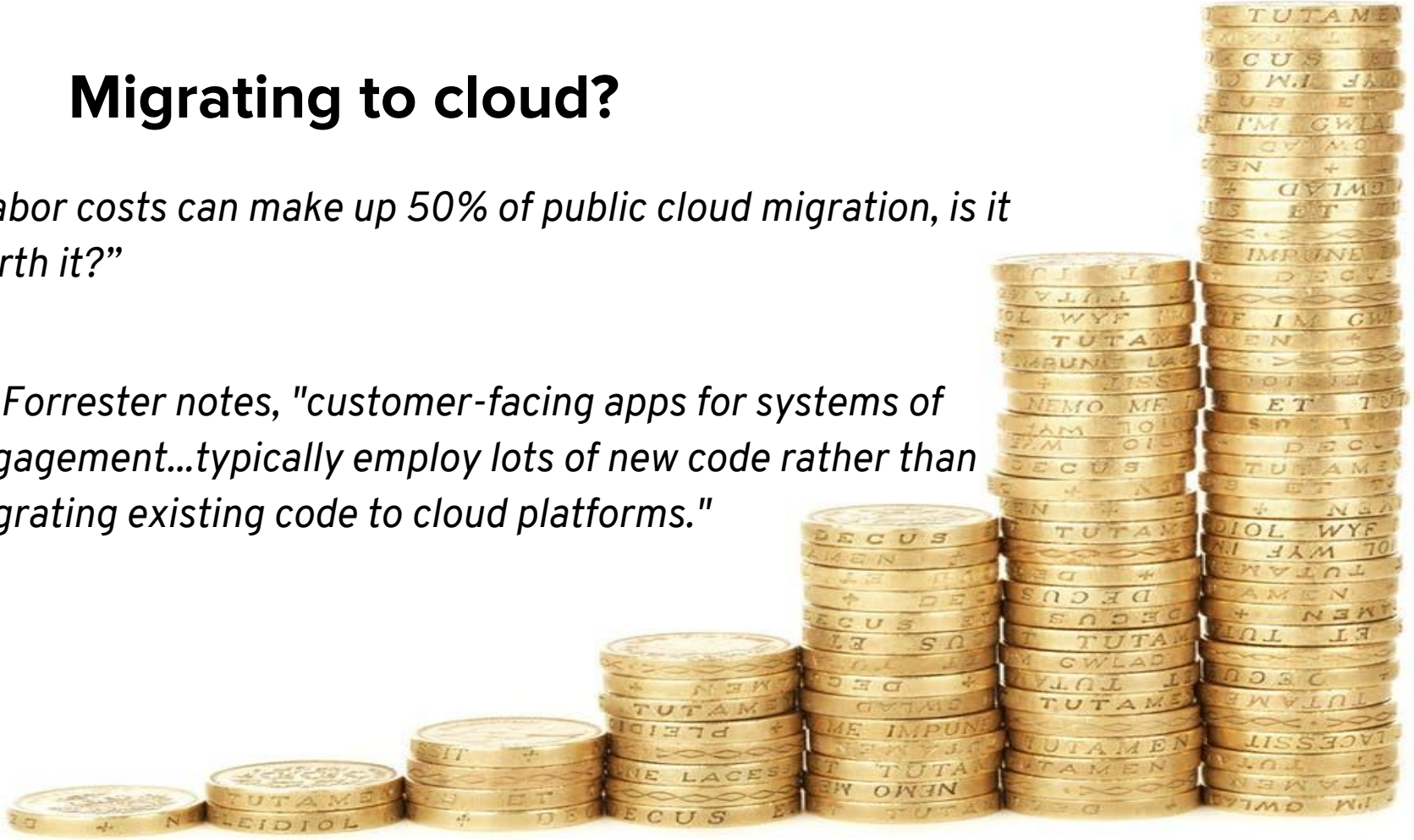
Audience participation requested



Migrating to cloud?

“Labor costs can make up 50% of public cloud migration, is it worth it?”

As Forrester notes, "customer-facing apps for systems of engagement...typically employ lots of new code rather than migrating existing code to cloud platforms."



https://www.techrepublic.com/article/labor-costs-can-make-up-50-of-public-cloud-migration-is-it-worth-it/

80% overcapacity

In house rolls over to cloud providers

“More than 80% of in-house data centers have way more server capacity than is necessary.”

“Companies don't do routine checks to see how much capacity they are using… (electricity, cooling, licensing).”

http://www.businessinsider.com/companies-waste-62-billion-on-the-cloud-by-paying-for-storage-they-dont-need-according-to-a-report-2017-11

36% overpaying

In house rolls over to cloud providers

“Extra cost rolls over when companies move onto the cloud”

“Companies paying an average of 36% more for cloud services than they actually need to.”

http://www.businessinsider.com/companies-waste-62-billion-on-the-cloud-by-paying-for-storage-they-dont-need-according-to-a-report-2017-11

2. Technology: Everything in the cloud?

Poll question #2

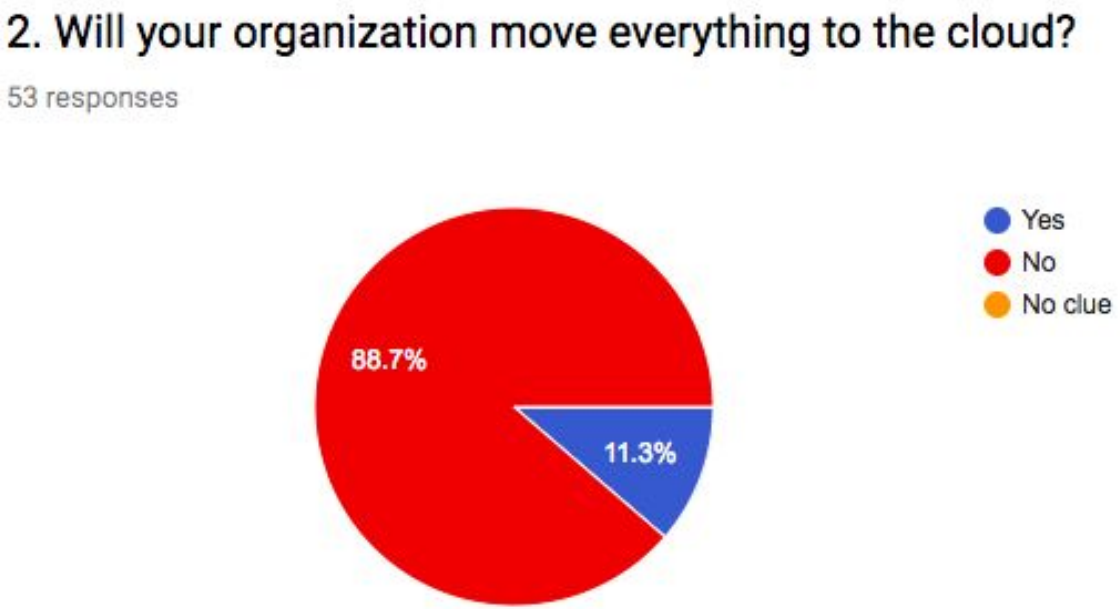
Audience participation requested

Will your organization move everything to the cloud?

http://bit.ly/ons3pitfalls

Poll question #2

Audience participation requested



Maybe it’s not viable?

“Not all business applications should migrate to the cloud, and enterprises must determine which apps are best suited to a cloud environment.”

“When businesses migrate their most essential applications to the cloud, they often fail to check how those apps will perform in their new environment.”

https://www.informationweek.com/cloud/10-cloud-migration-mistakes-to-avoid

De Persgroep

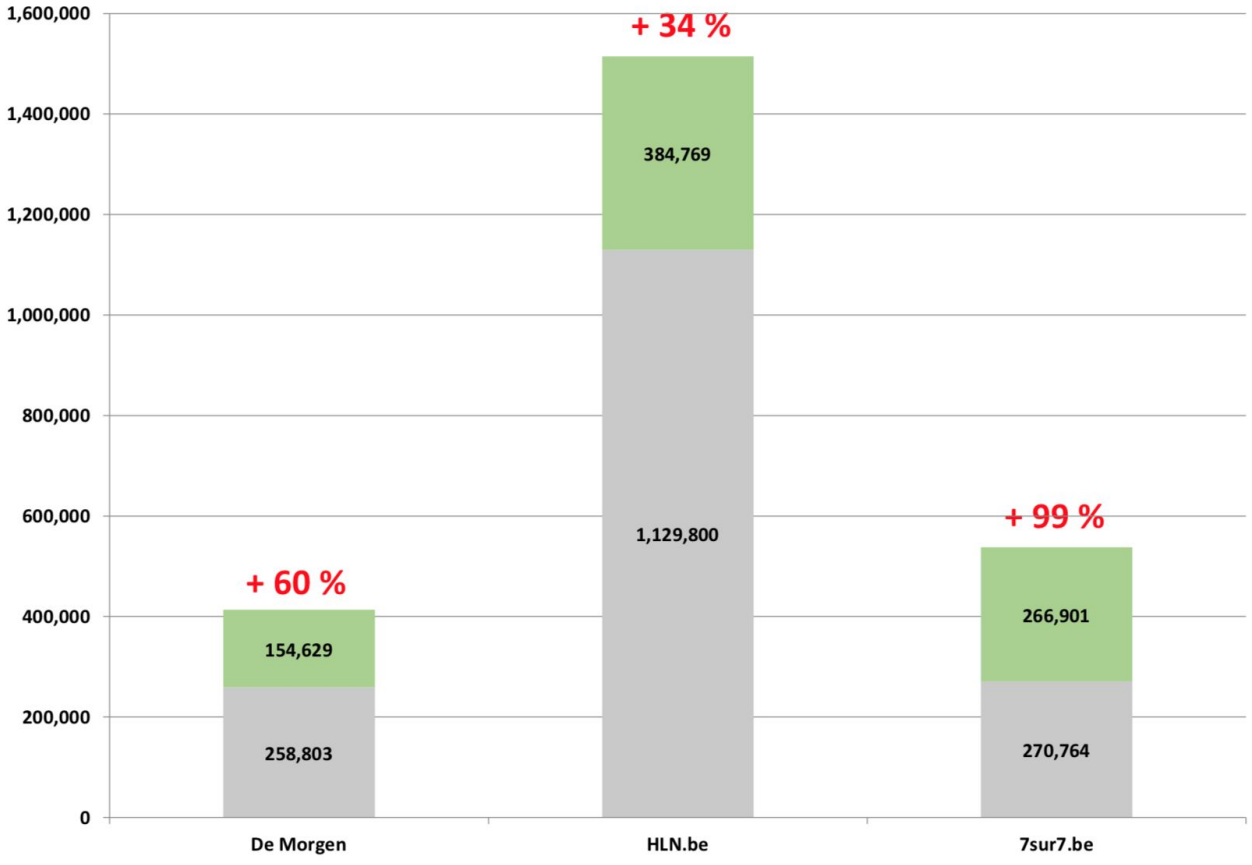
(Based on audience question from 'Power to Innovate talk)

"Why don't you go 100% to cloud for hosting your news group assets?" The Amazon quoted price for hosting was OK, but the bandwidth quotes were off the charts.

Shortly thereafter, during the Paris attacks (Charlie Hebdo) the French people crashed all local news sites. The Walloon (FR Belgium) sites hosted by De Persgroep received an extra 1.2 million unique visitors…. (810K BE, 450K NL).

What would that have meant to your bandwidth costs in the cloud?

Websites @ De Persgroep: Extra bezoekers nav Parijs



+ 806.000

DE PERSGROEP
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PUBLISHING

Poll question #3

Audience participation requested

Does your organization have a baseline of your application landscape?

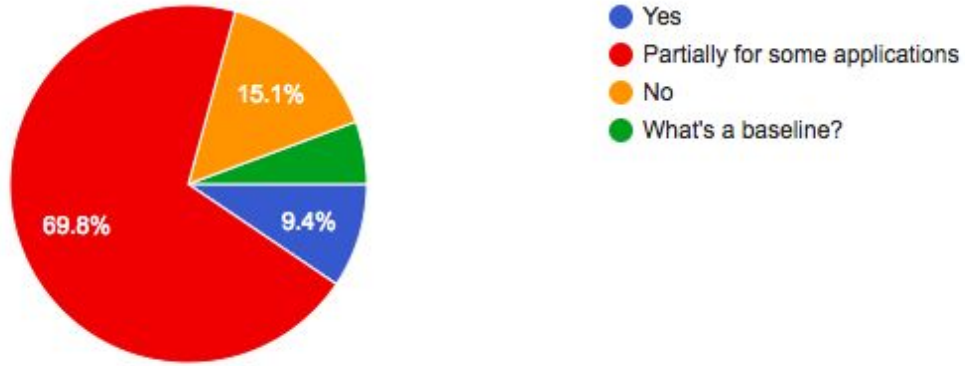
http://bit.ly/ons3pitfalls

Poll question #3

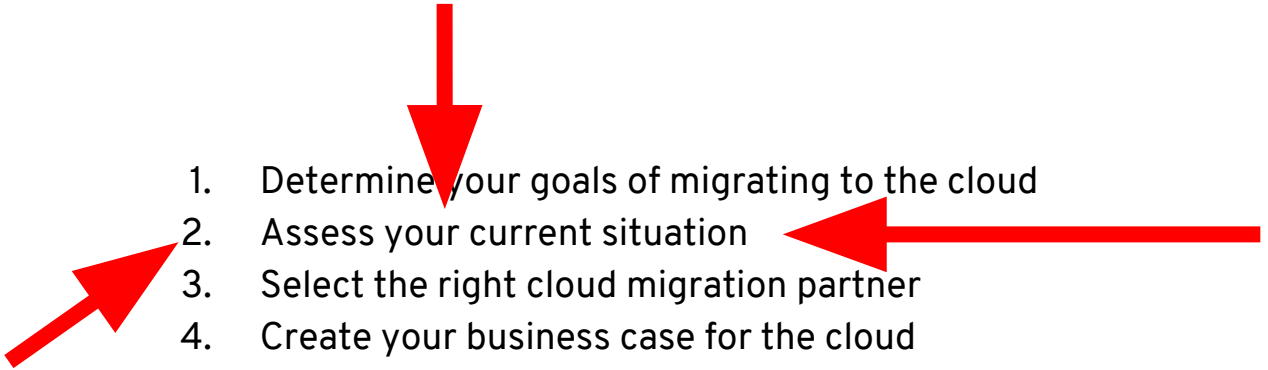
Audience participation requested

3. Does your organization have a baseline of your application landscape?

53 responses



Don’t forget the baseline!



1. Determine your goals of migrating to the cloud
2. Assess your current situation
3. Select the right cloud migration partner
4. Create your business case for the cloud
5. Select the type of cloud environment needed – public, private, hybrid or hybrid-multi?
6. Determine the specific cloud components necessary
7. Choose the right cloud provider
8. Plan the migration approach
9. Execute the migration
10. Monitor the production environment

Poll question #4

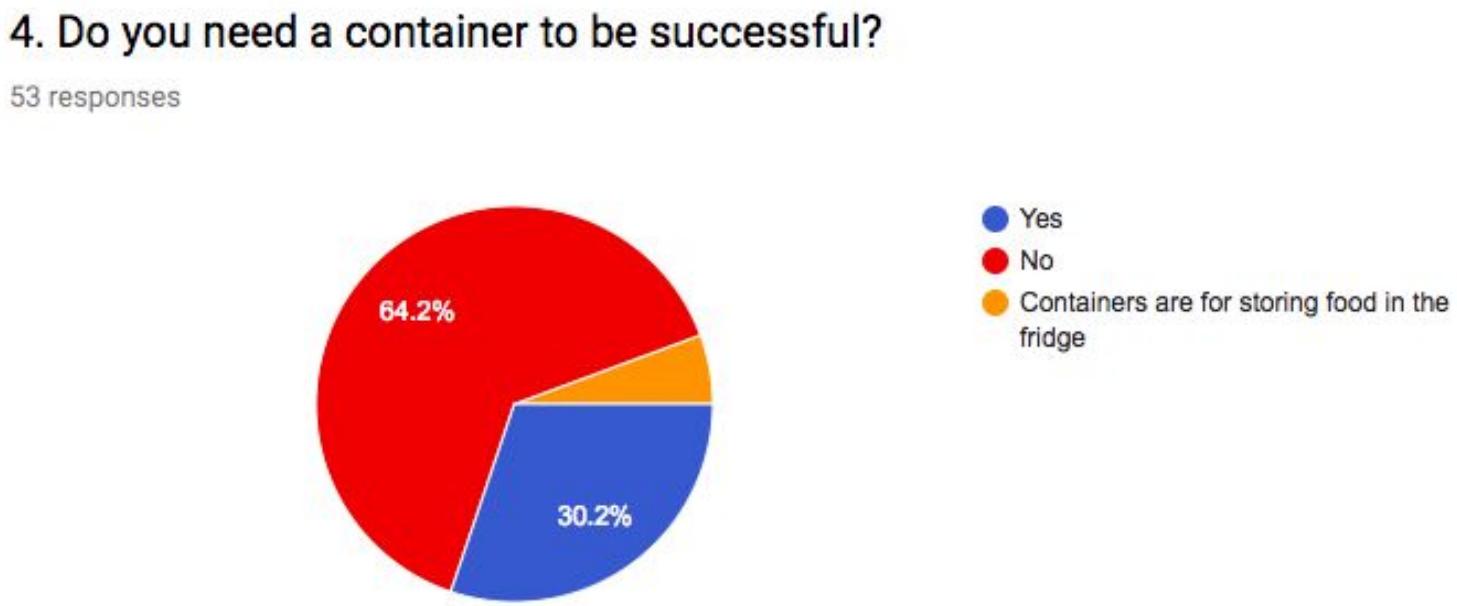
Audience participation requested

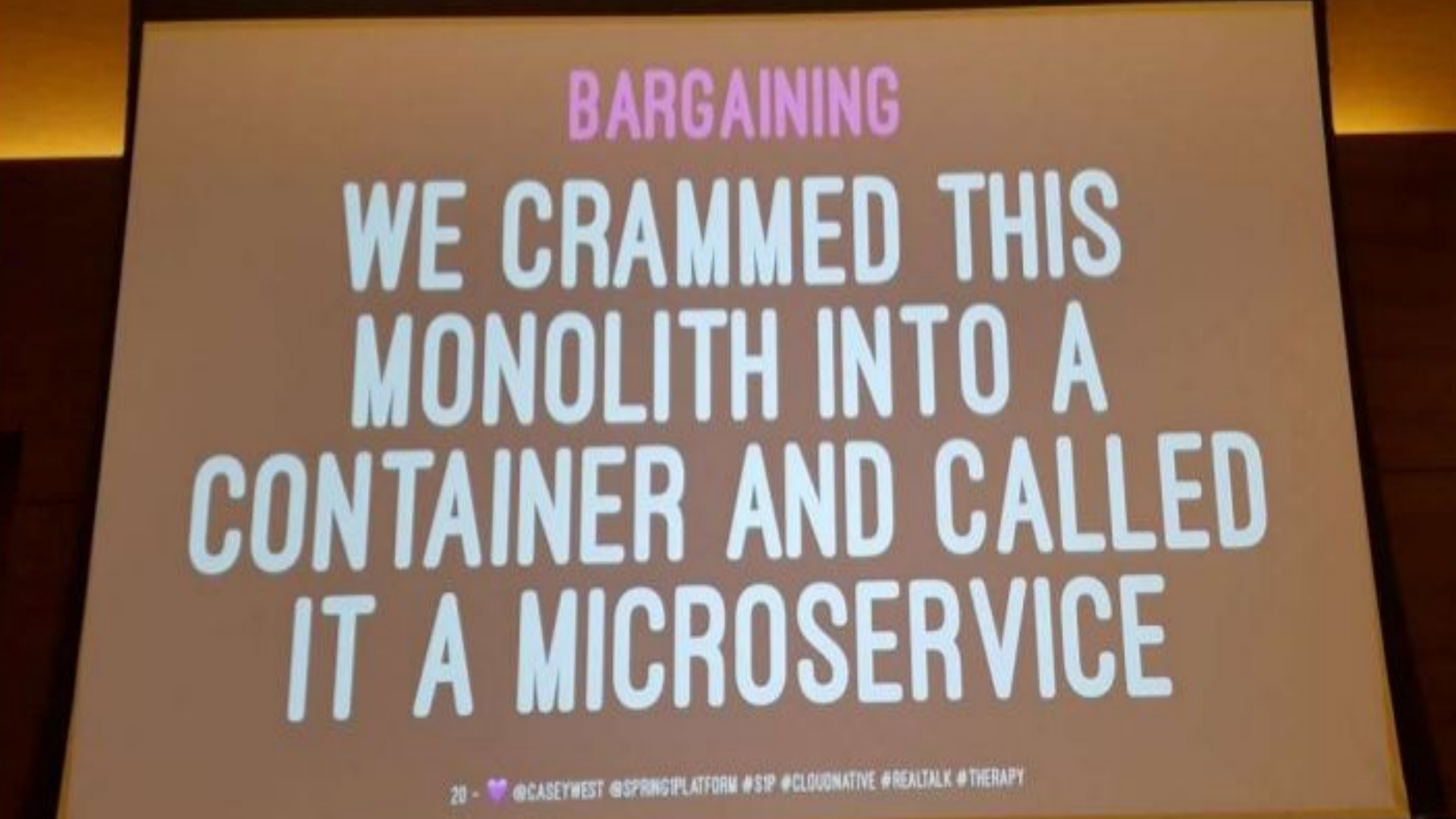
Do you need a container to be successful?

http://bit.ly/ons3pitfalls

Poll question #4

Audience participation requested




BARGAINING
WE CRAMMED THIS MONOLITH INTO A CONTAINER AND CALLED IT A MICROSERVICE
20 - @CASEYWEST @SPRINGPLATFORM #SIP #CLOUDNATIVE #REALTALK #THERAPY

Truth might be more complex...

“Using containers does not get rid of the need for good architectural & organisational practices”

https://www.slideshare.net/dbryant_uk/devoxx-2017-continuous-delivery-with-containers-the-good-the-bad-and-the-ugly

Cloud DIY anyone????

3. Data... Data... Data....

Poll question #5

Audience participation requested

Does your company know their bandwidth and storage needs?

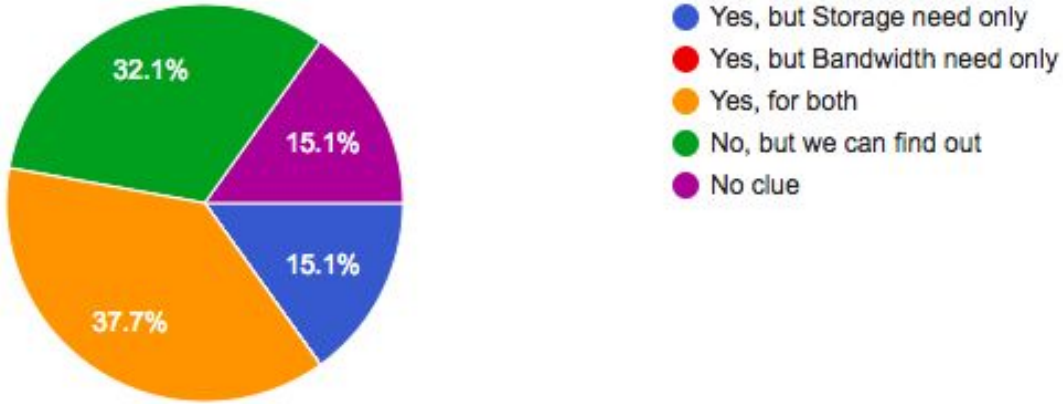
http://bit.ly/ons3pitfalls

Poll question #5

Audience participation requested

5. Does your company know their bandwidth and storage needs?

53 responses



$62 billion savings

Data to the cloud

“Based on Gartner's projection that data storage will be a $173 billion business in 2018.”

“Companies globally could save $62 billion in IT costs just by optimizing their workloads.”

“Only 25% of companies would save money if they transferred their server data directly onto the cloud.”

Poll question #6

Audience participation requested

Bonus question: Does your company have a exit-strategy for the cloud?

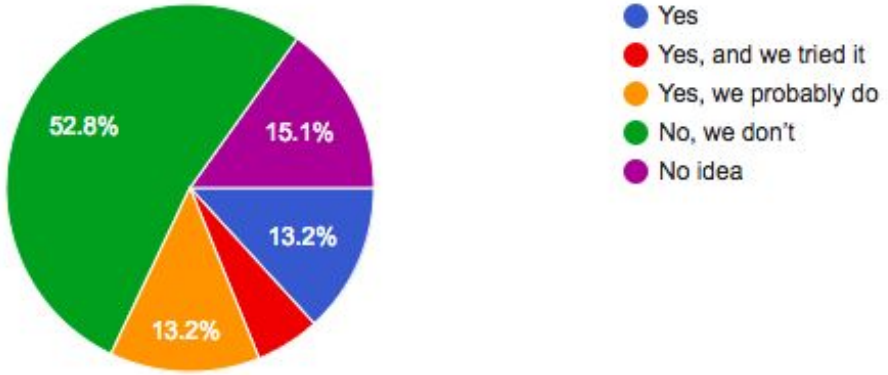
http://bit.ly/ons3pitfalls

Poll question #6

Audience participation requested

6. Bonus question: Does your company have a exit-strategy for the cloud?

53 responses



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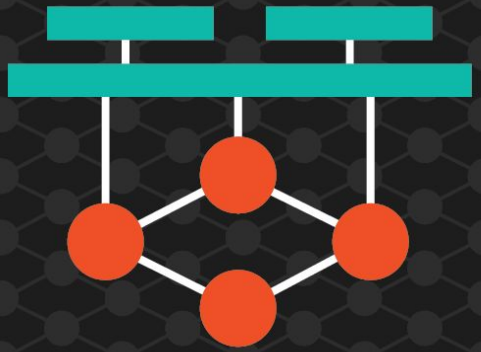

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