



Cloud 360⁰ Shared Responsibility Model

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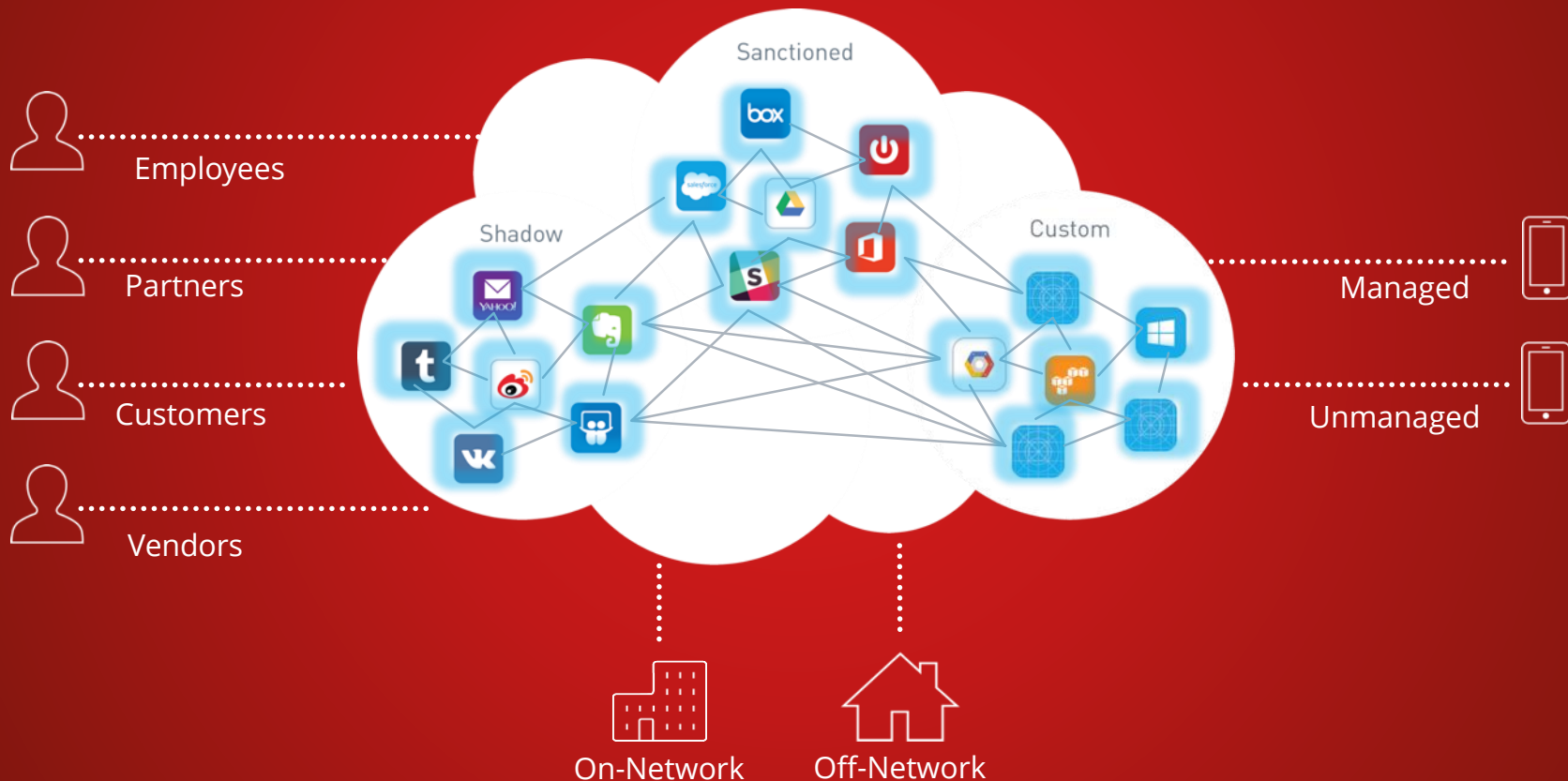


**CONTEXT
IS KING**

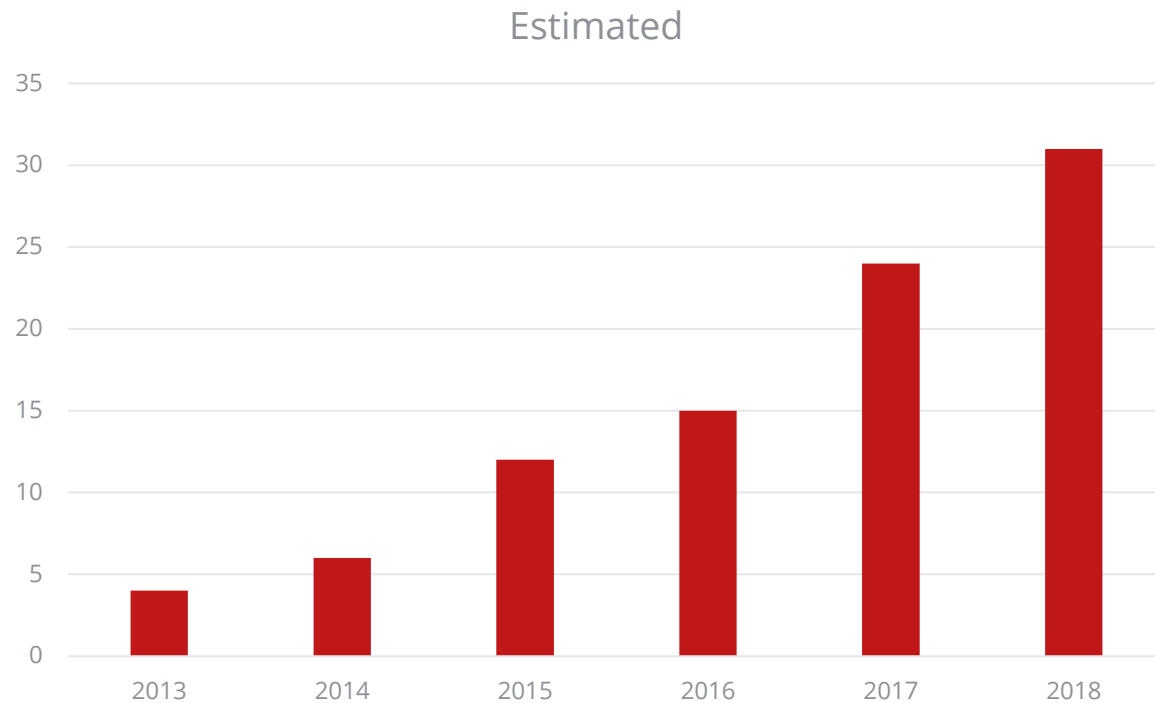


Everyone Is Going To
The Cloud – All That
Differs Is Speed
... and How Safely

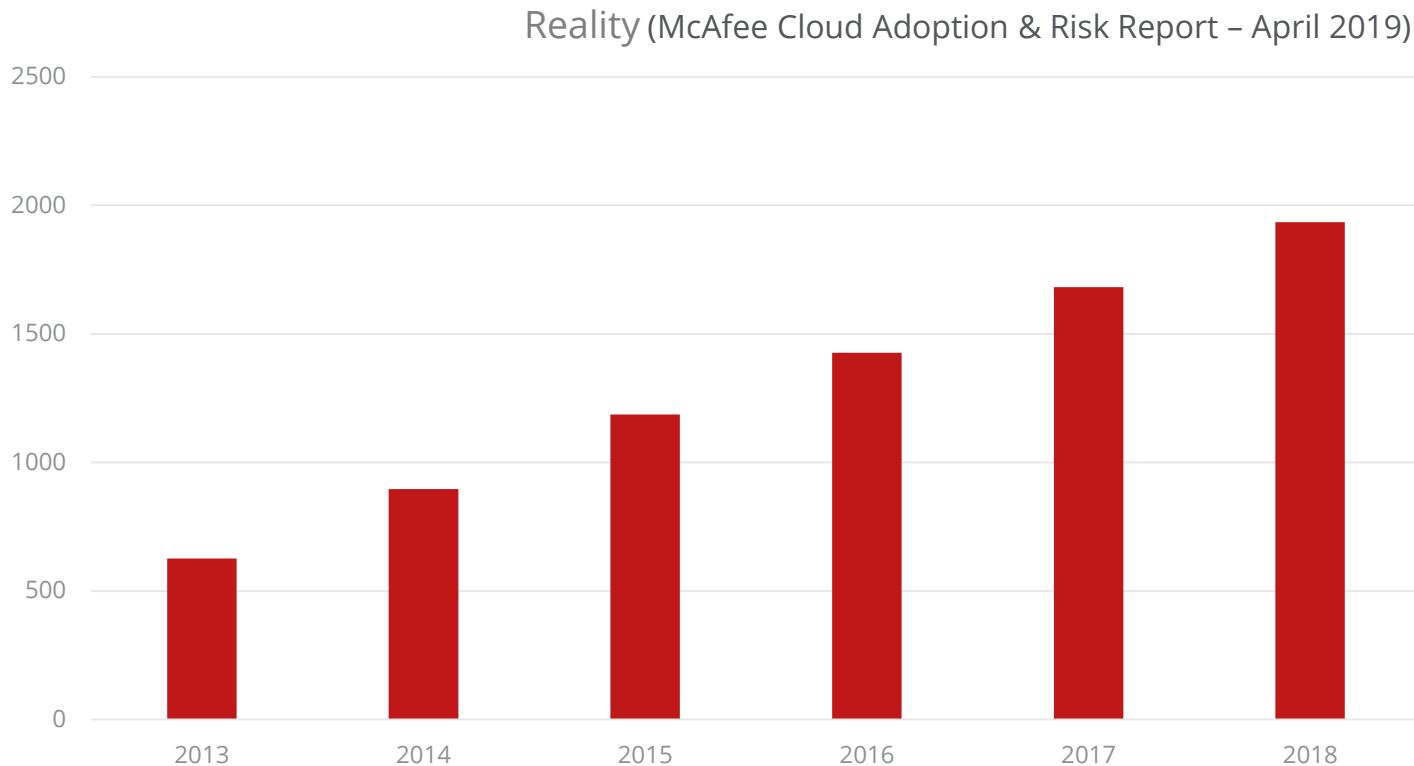
Mass migration to the cloud?



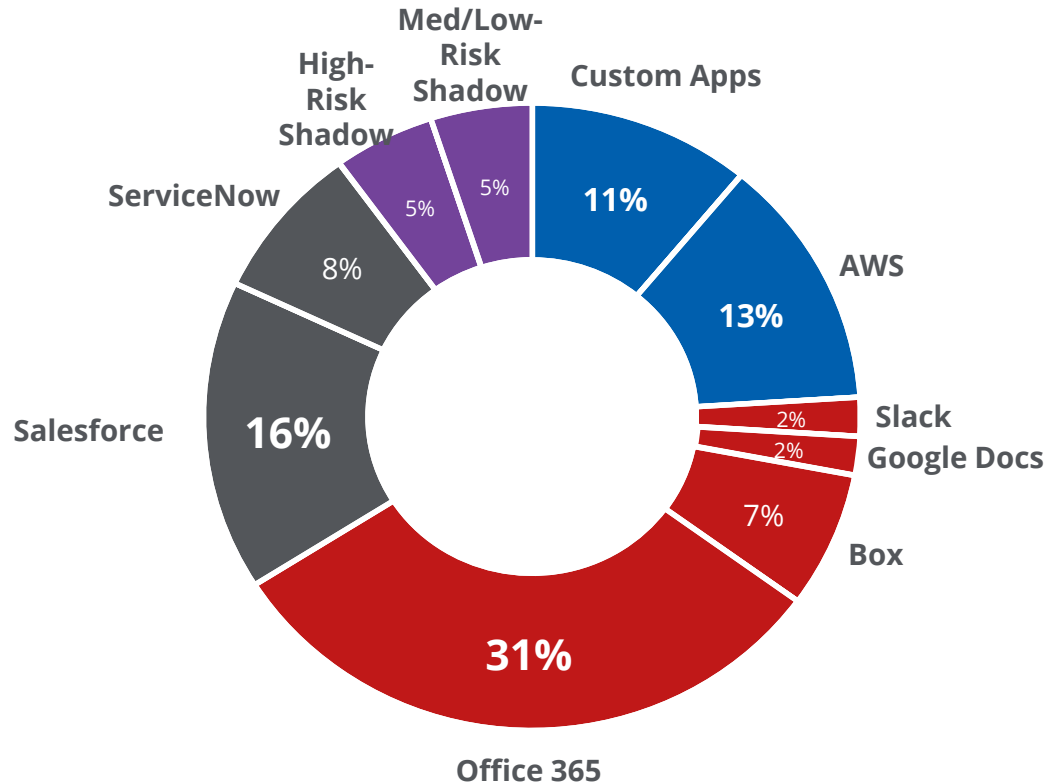
How Many Cloud Services Are We Using?



How Many Cloud Services Are We Using?



Where is enterprise sensitive data in the cloud?



Who's Responsible For Cloud Security?

Gartner®

“Through 2023,
99% of cloud
security failures
will be the
customer's fault”

So, Is Security Better or Worse?

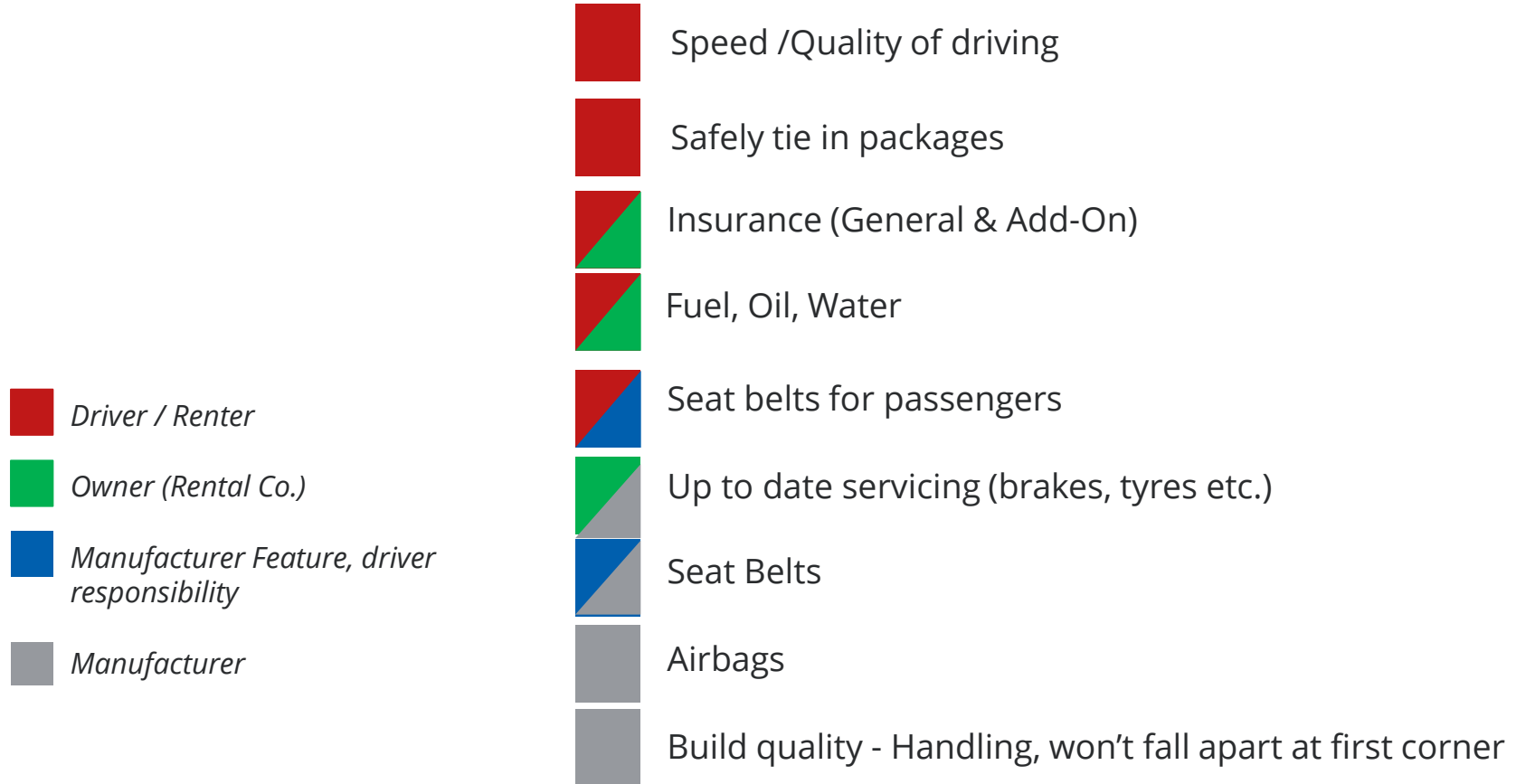
How Companies Benefit from the Cloud






























Figure 1. What benefits does your organization experience from its overall use of cloud services?

The 360° Shared Responsibility Model

The Car Rental Shared Responsibility Model



Cloud 360⁰ Shared Responsibility Model

<i>IaaS</i>	<i>PaaS</i>	<i>SaaS</i>	
			Collaboration control
			User/Device/Data control
			Data Classification & Accountability
			End-Point Protection
			Identity & Access Management
			Application Level Security
			Network Control
			Host Infrastructure
			Physical Security & Connectivity

	<i>User Responsibility</i>
	<i>Enterprise Responsibility</i>
	<i>Service Provider feature, enterprise configuration</i>
	<i>Service Provider Responsibility</i>

Example: Identity & Access Management

IaaS PaaS SaaS

- Check all cloud applications
- Communicate to all owners
 - Are they integrated with SSO?




























-  *User Responsibility*
-  *Enterprise Responsibility*
-  *Service Provider feature, enterprise configuration*
-  *Service Provider Responsibility*



Host Infrastructure

Physical Security & Connectivity

Technologies Required - Cloud 360⁰ Shared Responsibility Model

	IaaS	PaaS	SaaS	
<i>Link control, domain check, email controls, encryption</i>				Collaboration control
<i>User Behavior analytics, user & device policies</i>				User/Device/Data control
<i>DLP, on demand scan</i>				Data Classification & Accountability
<i>Compromised account detection, malware scanning</i>				End-Point Protection
<i>SSO integration</i>				Identity & Access Management
<i>Configuration audit</i>				Application Level Controls
<i>Audit of cloud configurations</i>				Network Control
<i>CIS benchmarking</i>				Host Infrastructure
				Physical Security

Key Takeaways

Cloud environments can be more secure than traditional infrastructures BUT

- You need to ensure you're asking the right questions
- You need the context about the applications, the CSP, the user and the data
- You need to know who is responsible for what across the entire model

Thank You

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Still not convinced?

Office 365

Salesforce (CRM)

Workday (HR)

Webex

Box

Concur (Expenses)

Okta / Sailpoint (Identity)

Jira, Atlassian (Development)

Trello (Collaboration)

Zoom

Slack (Discussions)

PowerBI (Business Intelligence)

Marketo

Hoovers

Adobe Marketing Suite

Ariba (Purchasing)

Hoot (Legal)

Mindtouch (Manuals & Training)

Loopio (Database to answer Qs)

LinkedIn

Twitter

YouTube

ServiceNow (IT Support)

Clari

Digideck

BriefingEdge (Meeting Arranger)

Smartsheet (Shared Spreadsheet)

Yammer (Communications)

Skype (Communications)

Skype for Business (Communications)