

Moving the Enterprise to the Cloud

September 29, 2015

Types of Cloud Providers



SAAS
Software
as a Service



CONSUME



PAAS
Platform
as a Service



BUILD ON IT



IAAS
Infrastructure
as a Service

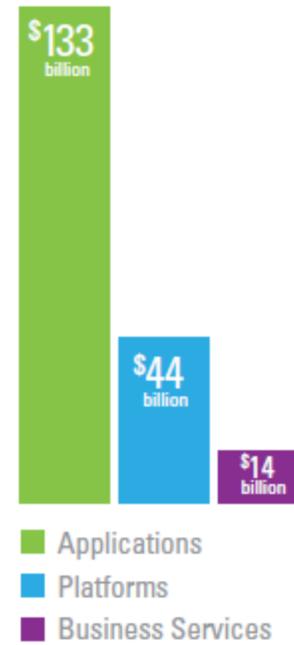


MIGRATE TO IT

Trends in Adoption



Estimated growth of the public cloud market by 2020



Estimated revenue growth by 2020

Where mobile is driving the most value for organizations

Source: 2014 KPMG Cloud Survey Report



Increased employee productivity



Higher employee satisfaction



Improve field service operations



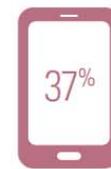
Gain a competitive advantage



Increased sales/revenue

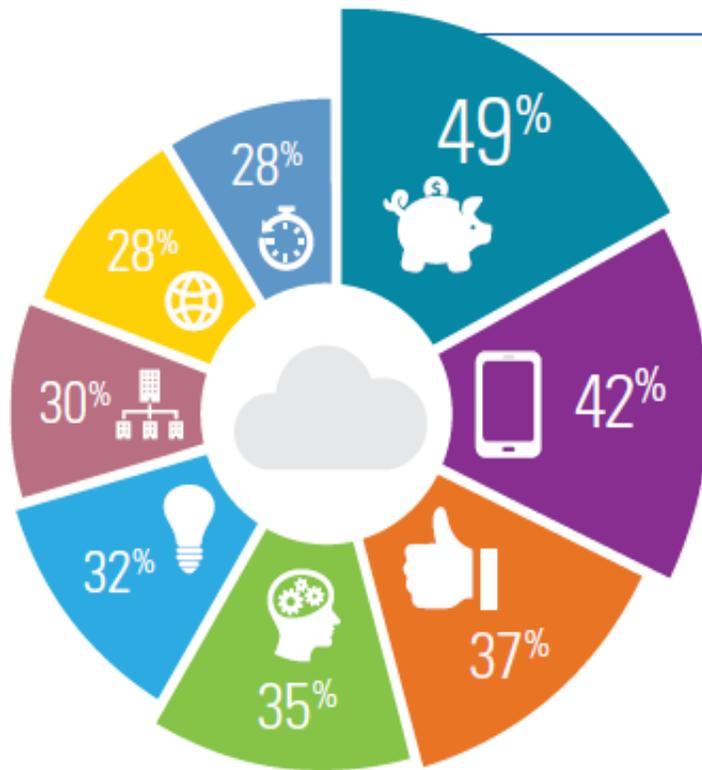


Improve/maintain existing competitive advantage



Decreased IT costs

Top Uses



The top ways businesses are using cloud to drive business transformation in 2014

- Drive cost efficiencies
- Better enable mobile workforce
- Improve alignment with customers/partners
- Better leverage data to provide insight
- New product development/innovation
- Develop new business models
- Shift to a global shared services model
- Faster time to market

Source: 2014 KPMG Cloud Survey Report

Business Benefits

“One In Four Enterprises See 'Surprise' Cloud Benefits, Survey Finds.”

– Forbes, March 9, 2015

- Cost savings
- Speed of adoption
- Agility
- Increased functionality
- Enacting large-scale change
- Improved business performance
- Improved service levels
- Process efficiencies
- Scalability
- Speed to market
- Increased employee productivity
- Higher employee satisfaction and flexibility
- Big data and business analytics

Common Myths

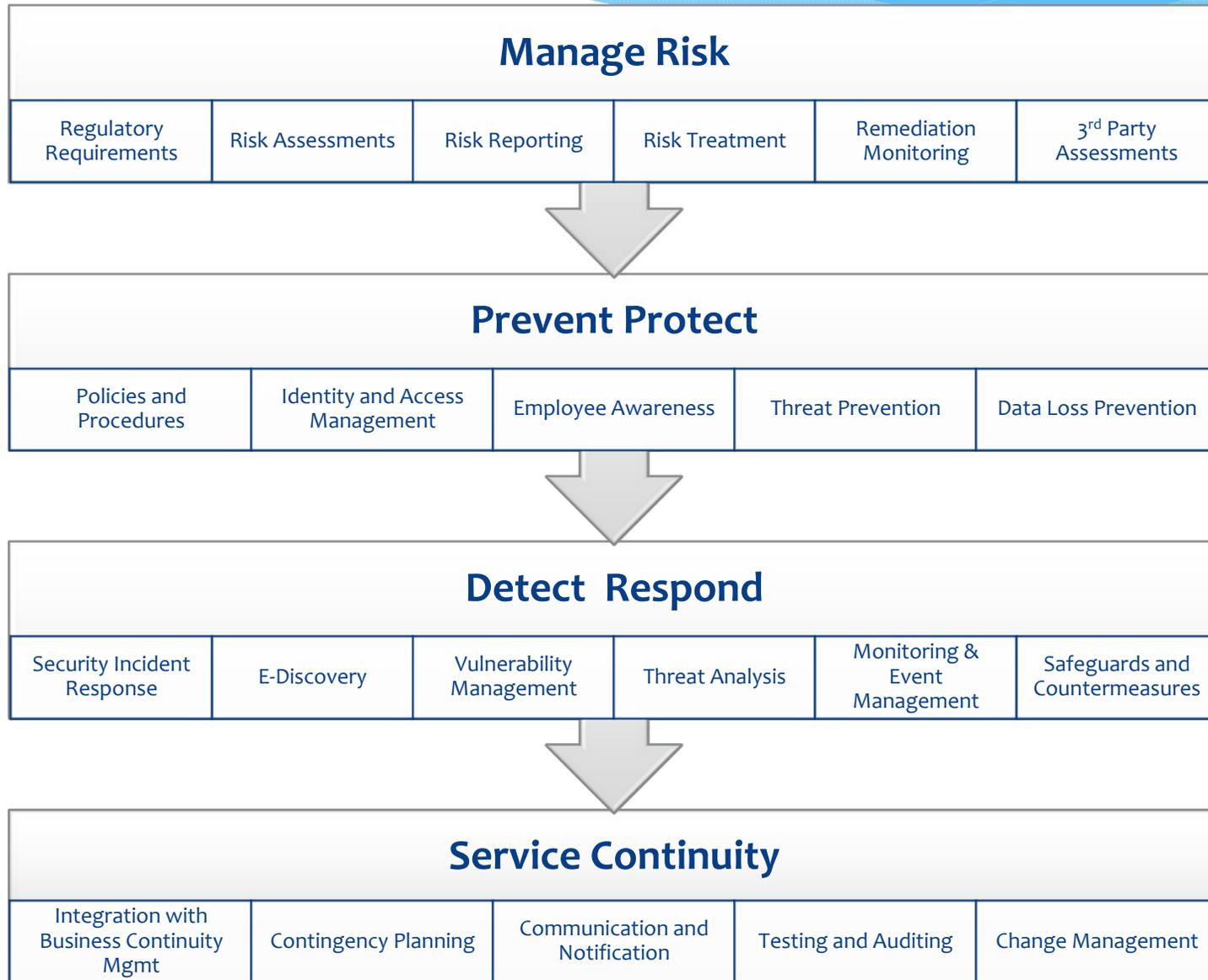
- Inherently insecure
- More susceptible to breaches
- Too hard to secure
- Business has to adopt or reject the cloud
- As long as we don't go there, we're secure
- You can stop your users from using the cloud
- Physical control equals stronger security
- Security is now the vendor's responsibility
- BYOD and the cloud are 2 separate issues
- Single tenant vs multitenant security
- You own all of your data in the cloud
- Once in the cloud, you lose all control

Role of InfoSec Professionals

- Support enterprise strategy
- Enable the business
- Provide value
- Assist leaders in understanding risk
- Enable the organization to manage risks
- Generate awareness
- Protect the enterprise
- Assess and implement technical controls



InfoSec Lifecycle



Challenges

- Proliferation of cloud services
- Protecting sensitive data
- Potential lack of visibility
- Detecting risky and anomalous behavior
- Leveraging legacy tools to manage threats
- Complying with laws across borders
- eDiscovery and surveillance

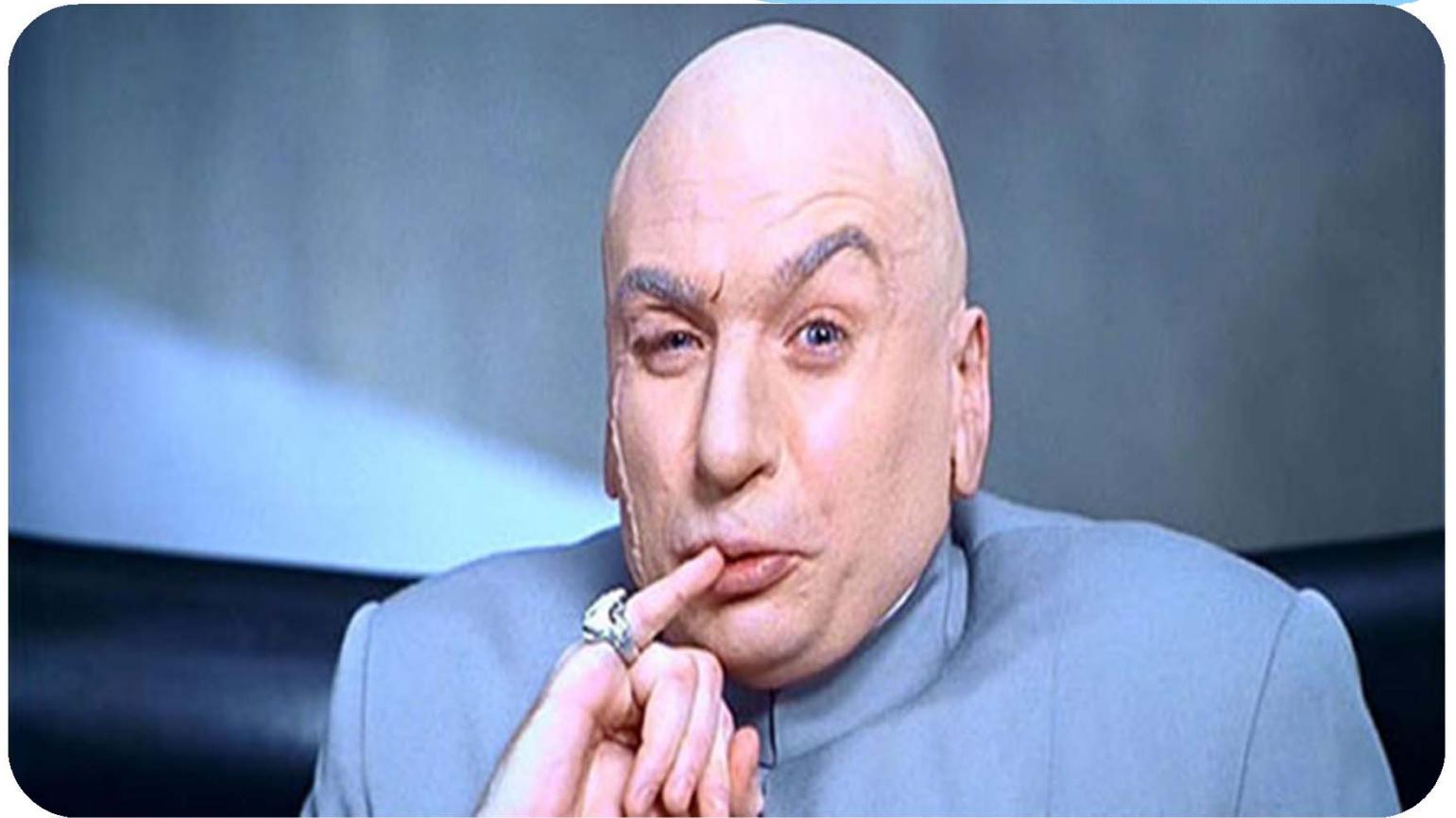
Critical Controls

- Encryption
- Data Loss Protection
- Authentication/Identity Management
- Logging and Incident Response
- eDiscovery
- Mobile Device Management
- Remote Access
- Key Management
- Infrastructure Controls
- Contractual Agreements

Hosting Agreements

- ✓ Breach notification
- ✓ Evidence of SOC 1 Type 2 report or certification
- ✓ Right to audit
- ✓ Geographic location
- ✓ Termination of services
- ✓ Data ownership
- ✓ Industry standard security controls
- ✓ Policies and procedures
- ✓ Privilege account management
- ✓ Disaster Recovery, backup and retention
- ✓ Vulnerability assessments
- ✓ Background checks
- ✓ Security patches and updates
- ✓ Data ownership
- ✓ Encryption
- ✓ Change Management

Bottom Line





Questions?