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The impact of public cloud adoption

Shifting from build to consume

27 July 2017

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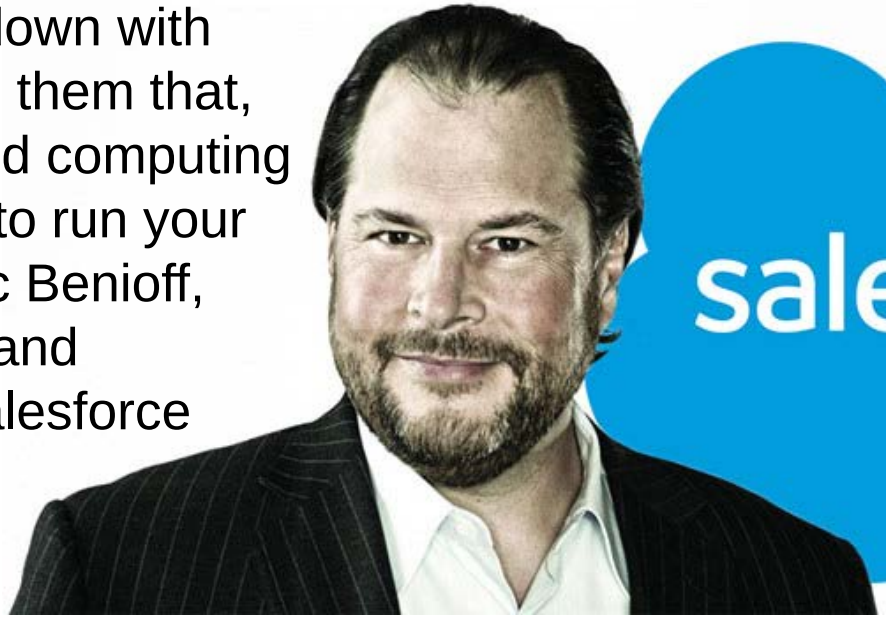
The impact of public cloud adoption

- Shift from build to consume of cloud services
- Drivers of and barriers to cloud acceptance
- Adapting to cloud 2.0
- Datacentrix Cloud Services

Shifting from build to consume

“If someone asks me what cloud computing is, I try not to get bogged down with definitions. I tell them that, simply put, cloud computing is a better way to run your business.” Marc Benioff, Founder, CEO and Chairman of Salesforce



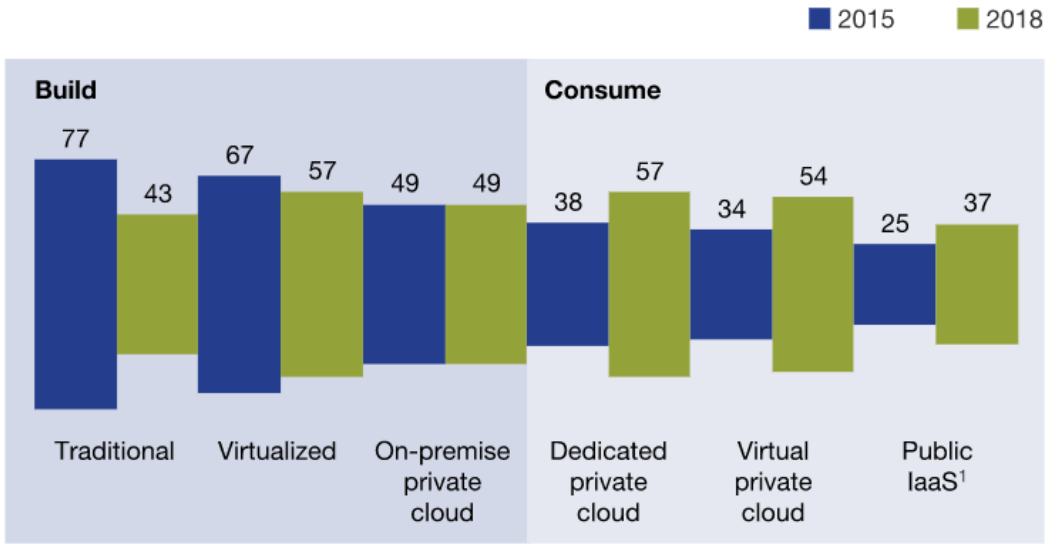
Shift from build to consume

- In the next three years, enterprises will make a fundamental shift from building IT to consuming IT. That's according to McKinsey's IT-as-a-Service (ITaaS) Cloud and Enterprise Cloud Infrastructure surveys.
  - Transition to hybrid cloud infrastructure, off-premise environments seeing the greatest growth in adoption
  - Cost is not the main driver, benefits in time to market and quality are driving cloud acceptance
  - Security and compliance remain key concerns for adoption

Shift from build to consume

A fundamental shift is under way from a 'build' to 'consume' model for IT workloads.

% of companies planning to have following environments as primary environment for at least 1 workload type in 2015 and 2018



[1]Infrastructure as a service.

Shift from build to consume

- Decline in traditional IT services
- Increase in Cloud-related migration and management services
- Cloud increasingly default option for software development
- More leading-edge IT capabilities will be available only in the cloud
- Lowered cost for Cloud based standby and backup systems

Shift from build to consume

Most organizations opting for “hyper-scale” providers

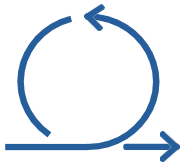
AND

tier-two and tier-three IaaS providers in a hybrid cloud model

Drivers of and barriers to cloud acceptance

- **Performance** – workload as close to the user as possible to reduce latency

- **Security** – Sensitive data, trade secrets, intellectual property



- **Agility** – time to market from ideation to launch & flexible capacity

Drivers of and barriers to cloud acceptance

- **Compliance** – data privacy laws & industry regulations

- **Business requirements** – static vs agile business processes

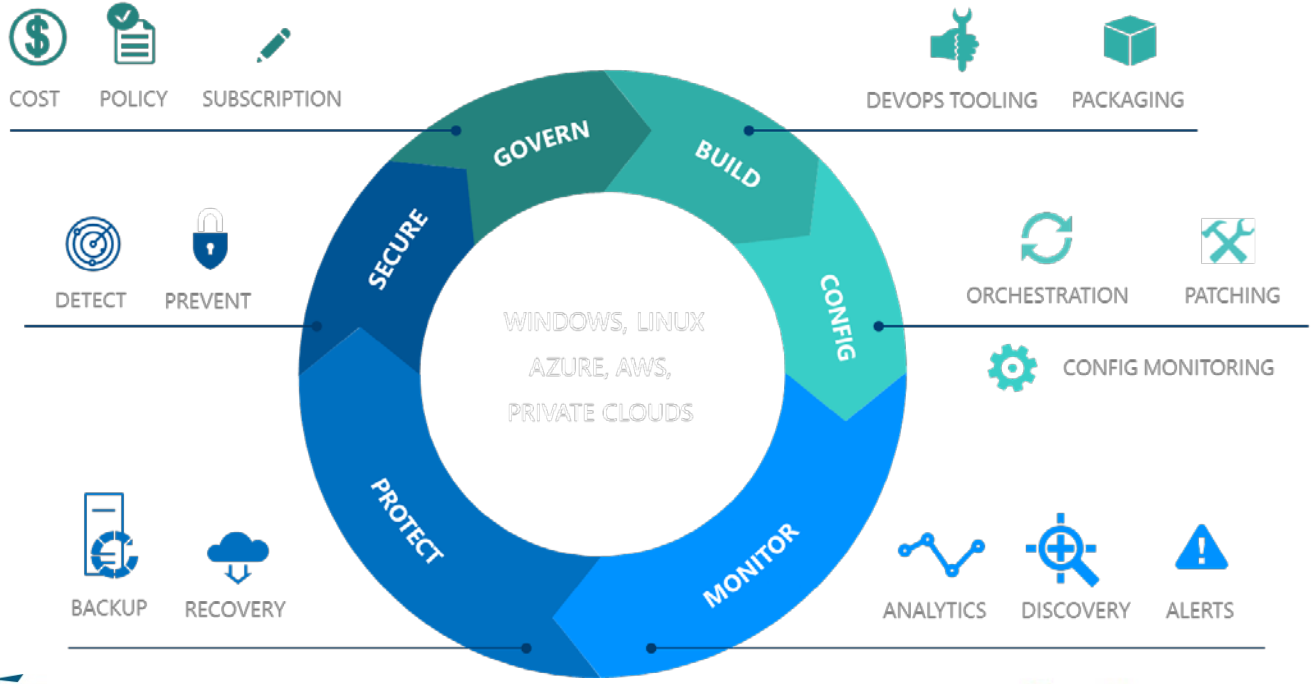
- **Operational efficiency** – reduced cost due to shared resources, automation, self-service

Drivers of and barriers to cloud acceptance

- **Orginisational changes** – Business vs Technology focus
- **New ITIL processes** – adapt approval, planning and change process
- **More service contracts** – non-negotiable contract terms, manage multiple service level agreements
- **Change in roles and responsibilities** – less technical, more service-architects, more focus on adding value
- **Cloud focused skills –** new skills for business and IT
- **Complex cloud cost management** – new cost management tools

Drivers of and barriers to cloud acceptance

Modern IT investments



Adapting to cloud 2.0

"The 2.0 of the cloud is the data and understanding the data. Now that you're in the cloud, how do you take advantage of it so your business can operate at a whole new level.“ – Diane Greene, senior vice president Google

Adapting to cloud 2.0

- **Machine learning**
  - ID patterns to resolve business issues
  - Insights into shared data
  - Make sense of big-data
  - Uses algorithms that learn from the repeated use of data
  - The more data machine learning has to work with, the better it learns
  - Google Cloud analytics currently the leader in analytics and deep learning
  - TensorFlow – open-source software library

TensorFlow

Adapting to cloud 2.0

KASPERSKY lab

- Machine learning use cases
  - **Data Security** – detect new malware files and predict security breaches
  - **Financial trading** - predict and execute trades at high speeds and high volume
  - **Healthcare** – Computer assisted diagnosis (CAD) used for early detection of cancer
  - **Recommendations** – analyse activity to determine what you might want to watch next
  - **Smart cars** – adjust setting based on the driver

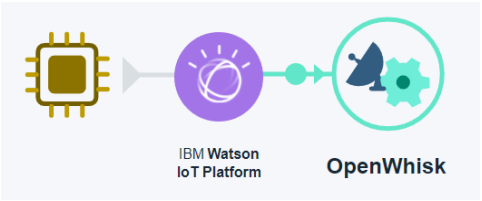
NETFLIX

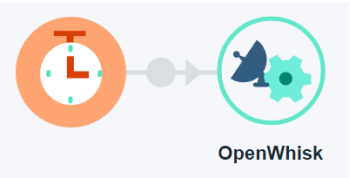
Adapting to cloud 2.0

- **Server-less computing services**
  - Stateless event or function driven code execution
  - No need to provision or manage server infrastructure
  - Only pay for compute time consumed
  - Developers build apps without knowledge of infrastructure
    - Number of servers
    - Storage requirements
    - Where servers are located
  - Use library of functions from AWS Lambda and Microsoft Azure Functions

Adapting to cloud 2.0

- Server-less computing use cases
  - **Image processing** - a drone taking aerial photographs and then using cognitive APIs to analyse data in those photos
    - Infrastructure inspections
    - Search and rescue activities
    - Precision agriculture and mining
    - Insurance companies documenting flood and fire risks
  - **Real-time processing (IoT)** – home surveillance system detects motion, send to cloud service, triggers alert to home owners smartphone





Datacentrix Cloud Services

- Hosted virtual servers
- Tiered storage
- Snapshot backups
- Multi DC deployment

- Hosted Exchange 2013
- 1 – 50GB mailbox options
- Multiple copies of mail stores
- Mimecast integrated archiving

- IM & presence
- PC-PC voice conferencing
- PC-PC video conferencing
- Federation

- Hosted SharePoint 2013
- Document collaboration
- Synchronisation with local DC
- Backup available on all devices

Datacentrix Cloud Services

- Off-site Backup
- Disaster Recovery (DR)
- Multi-site backups

Microsoft Azure

Office 365

- Microsoft Cloud Solutions Provider

- Archiving
- Branding
- Security

Demo at Datacentrix Cloud Services stand

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