When Deploying to the Cloud Goes Horribly Wrong

Bryan Soltis – Kentico Technical Evangelist
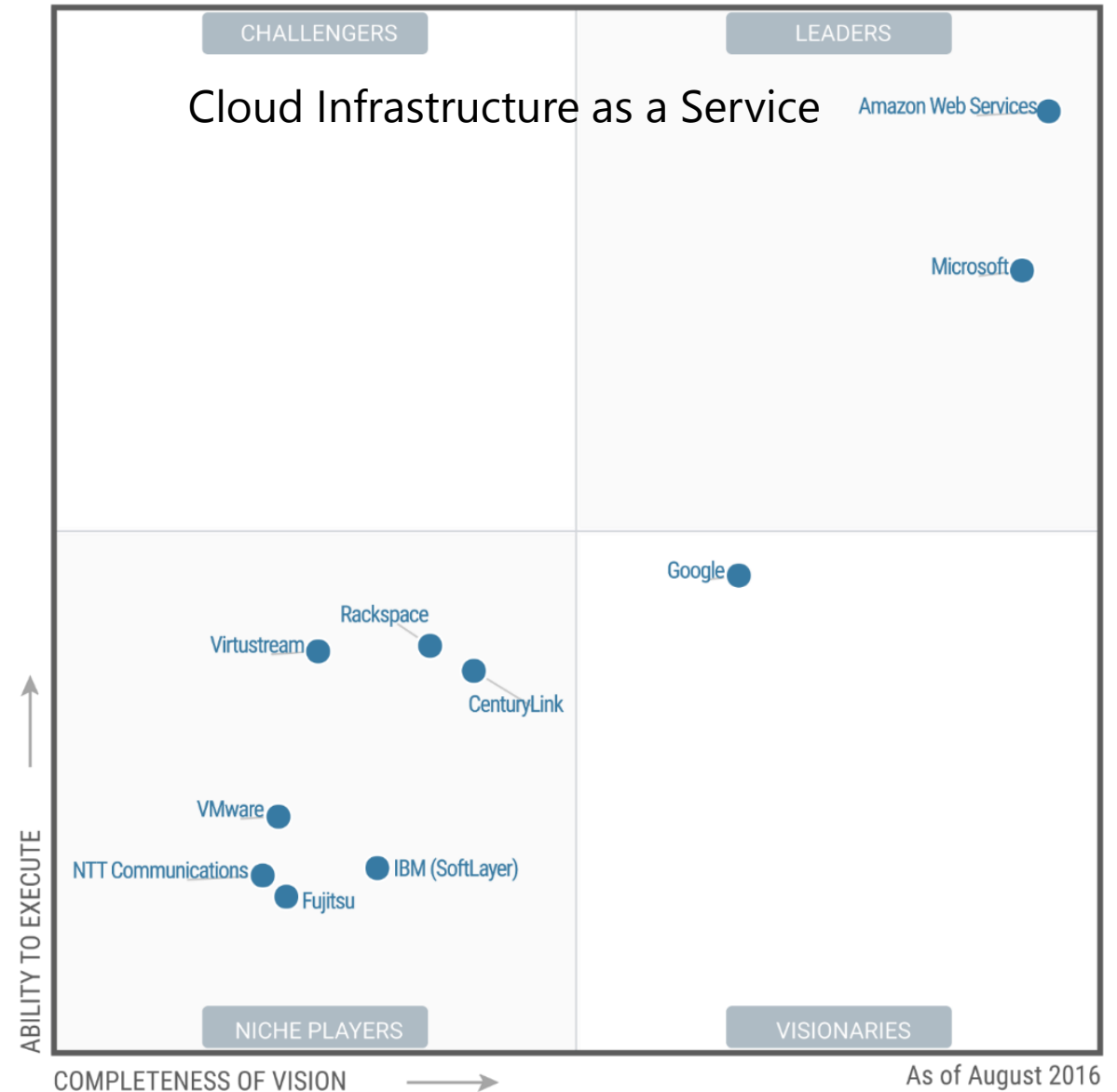
What's On Tap

- Getting to know the players

- Bad specifications/configurations

- Poor development

- Sky-high costs

- Solutions

404

The Cloud Players

- Cloud Platforms
  - Microsoft Azure
  - Amazon
  - Others

- Offerings
  - Applications
  - Data

- How they are marketed

Cloud Infrastructure as a Service

CHALLENGERS
LEADERS

Amazon Web Services

Microsoft

Google

Rackspace

Virtustream

CenturyLink

VMware

NTT Communications

IBM (SoftLayer)

Fujitsu

ABILITY TO EXECUTE

NICHE PLAYERS
VISIONARIES

COMPLETENESS OF VISION

As of August 2016

Azure

- IaaS, PaaS, SaaS

- Less control

- Less administration

- Deeply integrated with Microsoft stack

- 80% rule

- Strong push to Open Source

Microsoft Azure
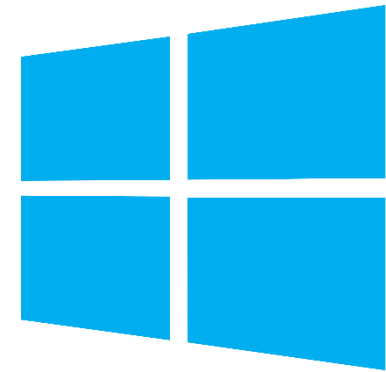
Amazon

- Mainly IaaS and Data

- More granular

- More control

- More administration

- Always open to any code/platform

Others

- Niche offerings
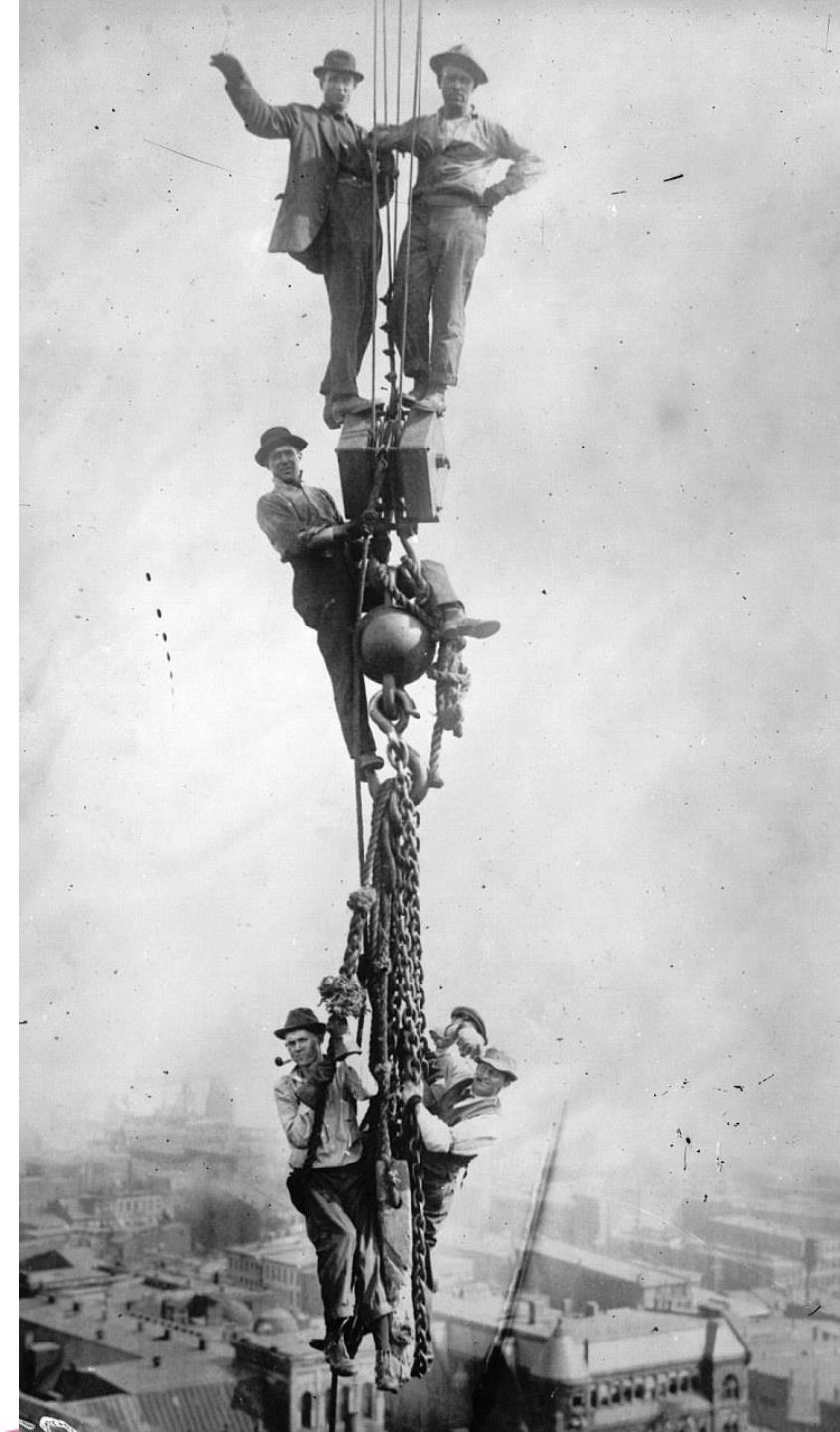
- Integrations

- Private Cloud sector

Development

- Lack of skills/knowledge
  - Wasted time
  - Cutting bread with a chainsaw

- Project delays
  - Longer development/deployment
  - Inefficient code

- Not selecting the right solution
  - Not understanding the differences

- Not leveraging the platform

Specifications/Configurations

- Improper provisioning
  - Under-powering
  - Over-powering
  - Not leveraging the right systems

- Caching
  - Session
  - Content

- PaaS vs. IaaS
  - Not evaluating cost savings

- CDN
  - Good for CSS, Bad for JS
  - Not setting TTLs

- Security
  - Not leveraging VPNs

- Email
  - Not thinking about SMTP

- Backups
  - Not enabling

Oh, look! A demo...

Costs

- Forgotten deployments

- Backups

- Staging deployments

- Test environments

- Overkill

Overkill estimate

Service type	Custom name	Region	Description	Estimated Cost
App Service	App Service	West US	1 instance(s), 744 hours, size: p3, premium tier, 0 SSL connection(s), 0 IP connection(s)	$744.00
Storage	Storage	West US	100 GB storage Block blob type. Basic tier, LRS redundancy, 100 x100,000 transactions	$2.76
SQL Database	SQL Database	East US	1 premium database(s) x 744 hours, size: p4	$1,860.00
Visual Studio Application Insights	Visual Studio Application Insights	West US	1 application(s), 0 million(s) additional data points, standard tier	$24.50
Redis Cache	Redis Cache	West US	premium tier, 1 instance(s) x 744 hours, size: p3	$1,625.79
Support			Support	$300.00
			Monthly Total	$5,506.20
			Annual Total	$66,071.95

Solutions

- Learn the tools!
  - Boot camps
  - Videos/Webinars
  - Conferences

- Specifications
  - Load test your stuff!
  - Leverage the cloud for horsepower

- Configurations
  - Define/use best practices

- Development
  - Fit the project, not the tool
  - Leverage Source Control integrations

- Costs
  - ALM
  - Good housekeeping
  - Weekly/monthly reviews

Bryan Soltis

Email: bryans@kentico.com
Skype: kentico_bryans
Twitter: bryan_soltis

              devnet.kentico.com
              facebook.com/KenticoCMS
              twitter.com/kentico
              linkedin.com/company/kentico-software