2015 IEEE/ACM Information Technology Professional Conference at TCF

Platform as a Service (PaaS) Infrastructure as a Service (IaaS)

Fredrick Dande, MBA, PMP

Outline

- My Intro
- Background of Cloud.
- PaaS (Intro. , Leaders &Trends)
- IaaS (Intro., Leaders & Trends)
- Demo (If time Allows)
- Q&A

Biography

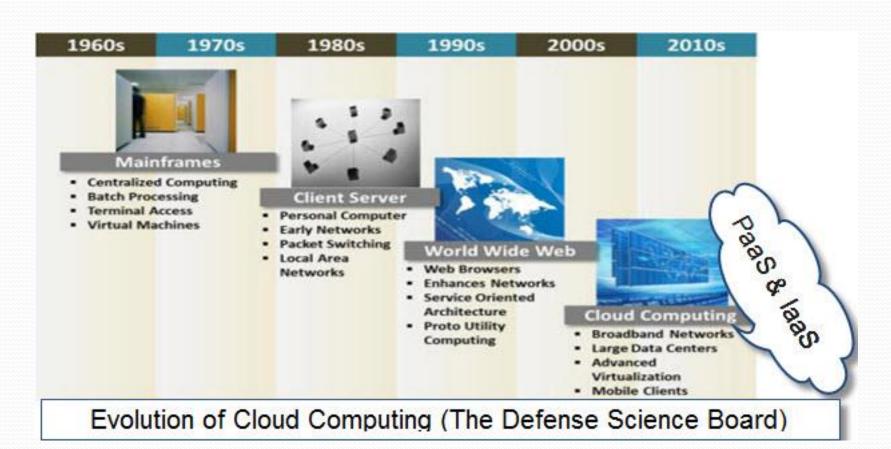
- IT Manager at a leading financial service company in the Philadelphia Region.
- Over Ten years experience in IT within the Financial Services Industry.
- Board of Directors Junior Achievement of New Jersey.

Education:

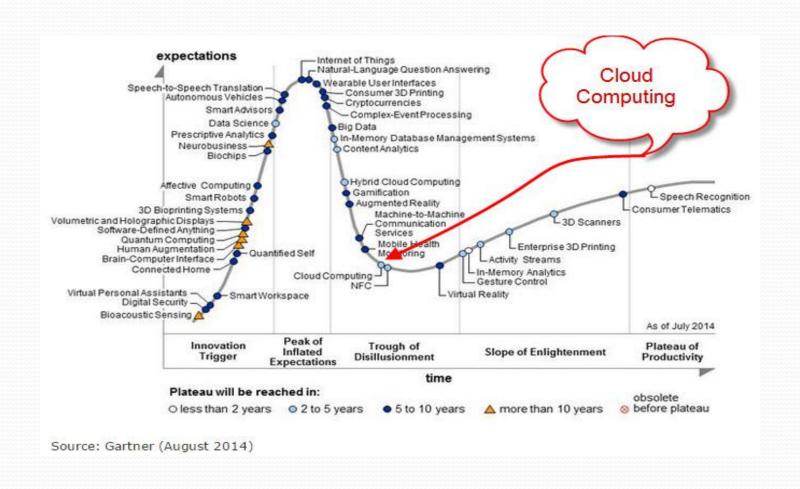
- PhD Student, Technology Management; Indiana State University,
- MBA; University of Massachusetts Amherst
- M.S., Management of Technology; New Jersey Institute of Technology
- B.S., Engineering Technology; New Jersey Institute of Technology

Research Interests: Cloud Computing, Cloud Risk Assessment.

Cloud Background(History repeats Itself)



Cloud Background(HyperCycle)



Cloud Background(PaaS & IaaS)

-Delivery of needed computing resources over the Internet.

Cloud Service Models:

Platform as a Service (PaaS)

- Infrastructure as a Service (IaaS)
- Software as a Service (IaaS)



PaaS?

Traditional computing
System = PaaS via
Internet (Build on it/
"Cars-Carry" on it)

Provides:

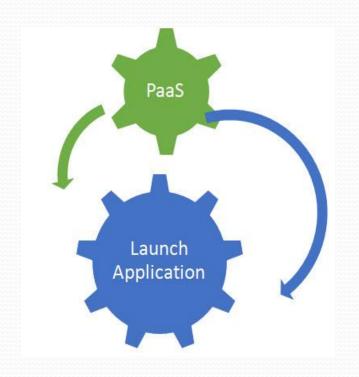
- Develop Apps.
- Test Apps.
- Deploy Apps.



PaaS?

None PaaS Steps to Deploy: PaaS Steps to Deploy:





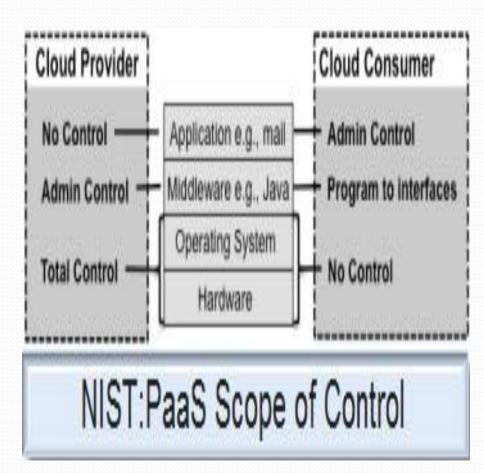
PaaS Provider & Consumer Control

Cloud Provider

 Total Control O/S & Hardware.

Cloud Consumer

Total App. Admin control



PaaS Vendors (Source:Clouds360.com)

































Engine Yard*

Visual WebGui

openstack~

ThinkGrid

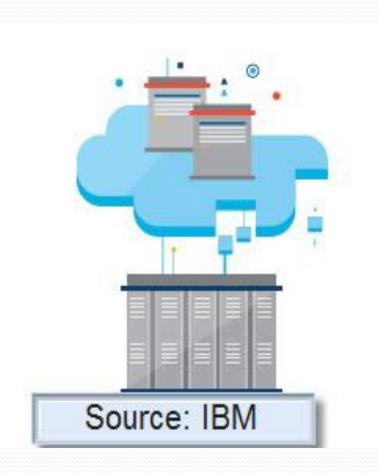
Top 20 PaaS Providers/Vendors

laas?

Hardware = IaaS via Internet (Migrate to it / "Interstate" Drive on)

Access to:

- Virtual Computers.
- Storage.
- Network components (Firewalls, switches, Routers).



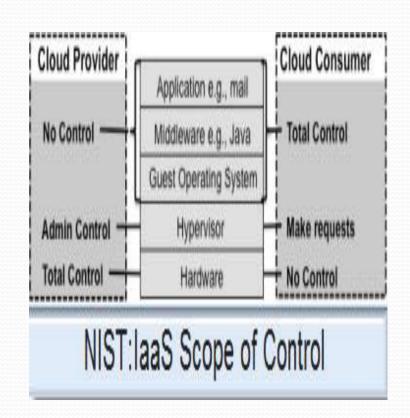
laaS Provider & Consumer Control

Cloud Provider

- Total Control hardware.
- Admin Control VM's

Cloud Consumer

 Total control of App. & Guest O/S.



laaS Vendors (Source:Clouds360.com)



































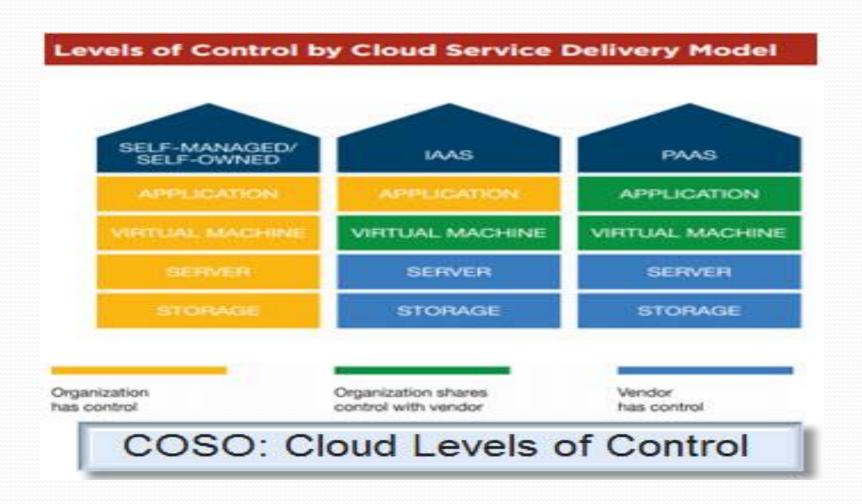






Top 20 laaS Providers/Vendors

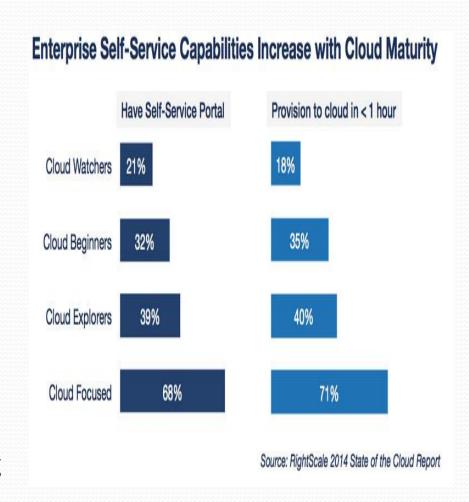
Paas and IaaS Levels of Control



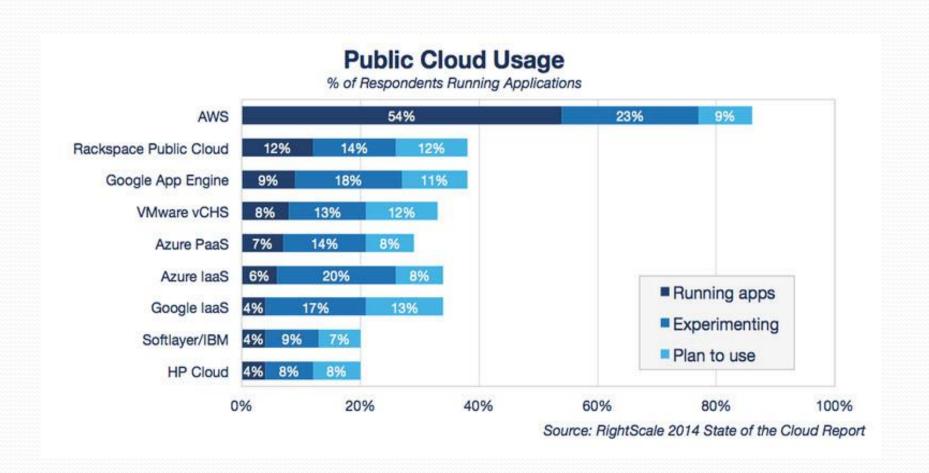
Cloud Market Trends 2014

Per Right Scale Adoption Level:

- Cloud Watchers developing cloud strategies.
- Cloud Beginners working on POC
- Cloud Explorers multiple projects & apps. deployed.
- Cloud Focused heavily using cloud infrastructure.



Cloud Market Trends 2014



Cloud Market Trends 2014

Top 5 Challenges Change with Cloud Maturity

Place	Cloud Beginners	Cloud Focused
#1	Security (31%)	Compliance (18%)
#2	Compliance (30%)	Cost (17%)
#3	Managing multiple cloud services (28%)	Performance (15%)
#4	Integration to internal systems (28%)	Managing multiple cloud services (13%)
#5	Governance/Control (26%)	Security (13%)

Source: RightScale 2014 State of the Cloud Report

Time for Demo?

https://aws.amazon.com

Disclaimer: The author has no affiliation with Amazon and the use of AWS Cloud is provided for demo purposes only, and is not intended to convey or imply Amazon's concurrence with, or support for, the positions, opinions, or viewpoints expressed by the author.

The End

