IIIII CISCO NETWORKING ACADEMY

Career Advantage Webinars Cloud Computing Series



- Session 2: Security in the Cloud
 - 10 December, 8:00 A.M. Pacific Standard Time, Register Here
- Session 3: Open Stack—what is it? Connecting ACI to Open Stack
 26 January, 8:00 A.M. Pacific Standard Time, Register Here

Internet of Everything Webinar Series

TOPIC

IoE & Education

DATE

December 1st:

8:00 A.M. PST, REGISTER HERE

7:00 P.M. PST, <u>REGISTER HERE</u>

TOPIC

IoE & Smart Cities

DATE

December 2nd:

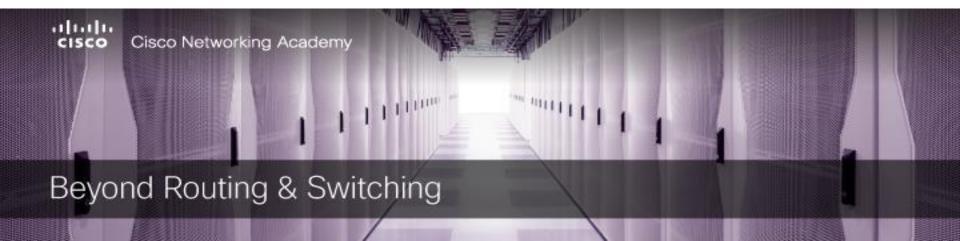
9:00 AM PST, REGISTER HERE



Computer Networking: Beyond Routing & Switching Series

• 3rd Session: *Going Wireless – Wireless Communications and Technologies – Dec. 8th, 2015, 9:00 P.M. PST, Register Here*

Recording for Session 1: Network Security & Cybersecurity, & Session 2: Intro to Data Centers, can be found here



Success

Upcoming Sessions:

Get Inspired!

December 2nd 2015 - 9:00 PM PST, Register Here



Future Sessions cover Teamwork, and Communicating Effectively with Body Language

All previous sessions recordings and presentations for this series can be found here

What is the Cloud?

...and how will affect my network?

Tony Rice, CISSP Senior Application Security Engineer November 24, 2015



Webinar Series

- What is Cloud? How will it affect me and my network? Tony Rice (Nov 24th)
- Security in the Cloud (Dec 10th) Lokesh Pidawekar
- Open Stack—what is it? Connecting ACI to Open Stack (Jan 26th)

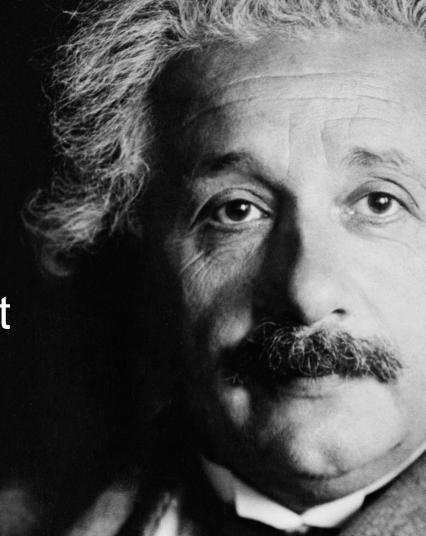
... and you are?

- Senior Application Security Engineer
 Cisco Critical Business Security Services
- 15 years at Cisco
 SCM, middleware, data center operations, DevOps, R&I
- CISSP license #517307
- US Patent #8732294 Method and System for Managing Configuration Management Environment



Explain it to your mom

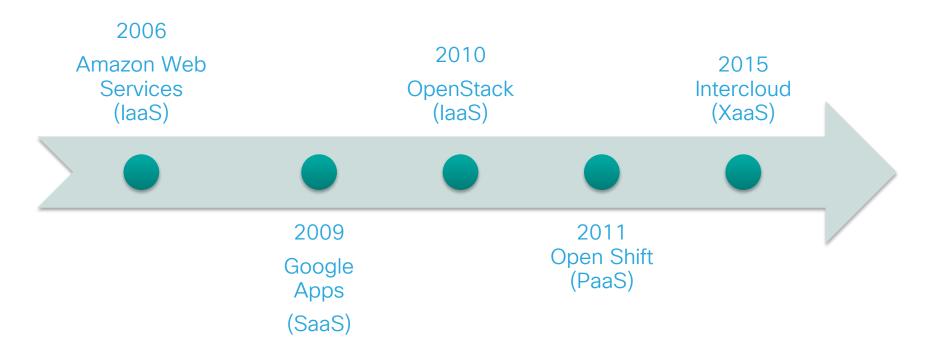
If you cant explain something simply, you don't understand it well enough



Cloud Computing Milestones



Cloud Computing Milestones (continued)



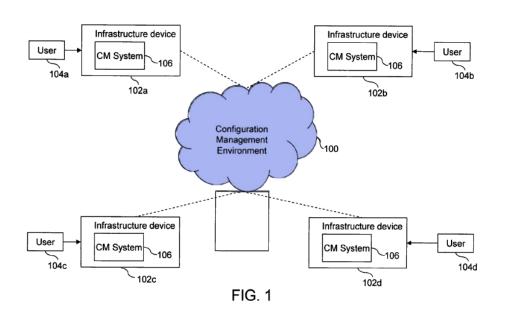
What is the Cloud?

"I can't think of anything that isn't cloud computing with all of these announcements. ... Maybe I'm an idiot, but I have no idea what anyone is talking about. What is it? It's complete gibberish. It's insane. When is this idiocy going to stop?"

- Larry Ellison, chairman, Oracle



What is the cloud?



The cloud is:

Where I put what I don't want to manage or even think about

What is the cloud?

Renting someone else's computer.

Cloud Computing Context

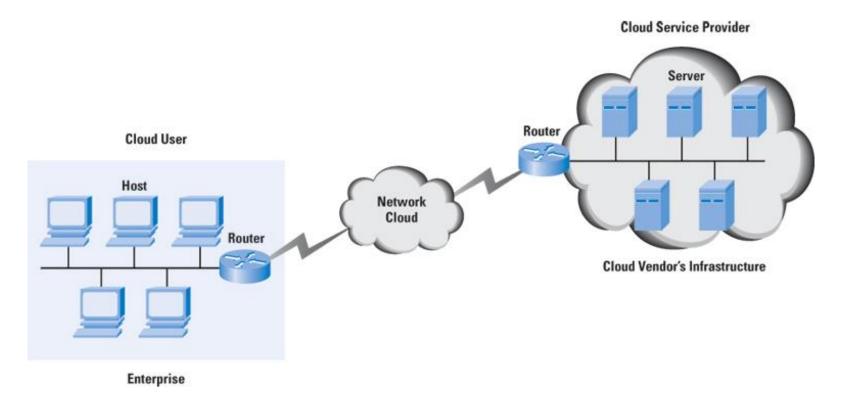


Image Credit: T. Sridhar

Why the cloud?

- The cloud is more reliable
- The cloud remembers to backup
- The cloud is (theoretically) infinite
- The (public) cloud is green
- The clouds enables collaboration
- The cloud is less costly

On-Premises



















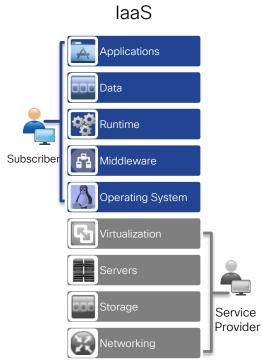


Service Provider

Photo: Leonardo Rizzi



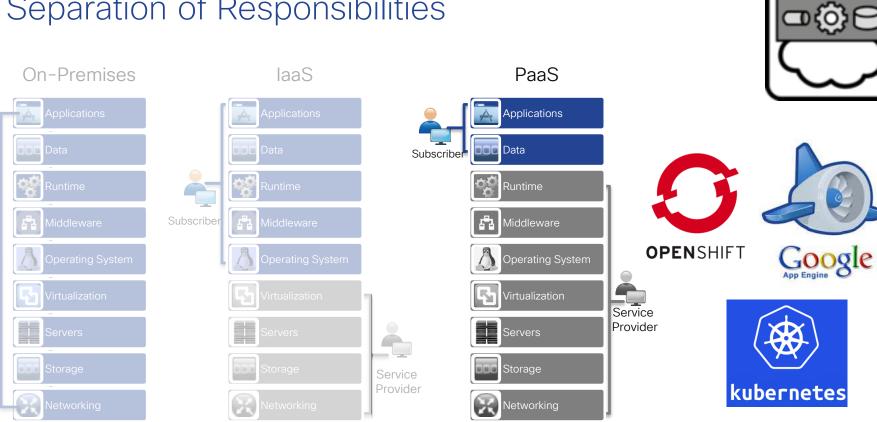






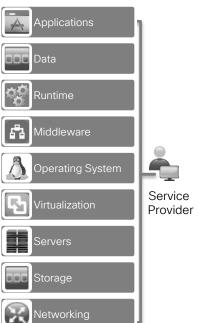




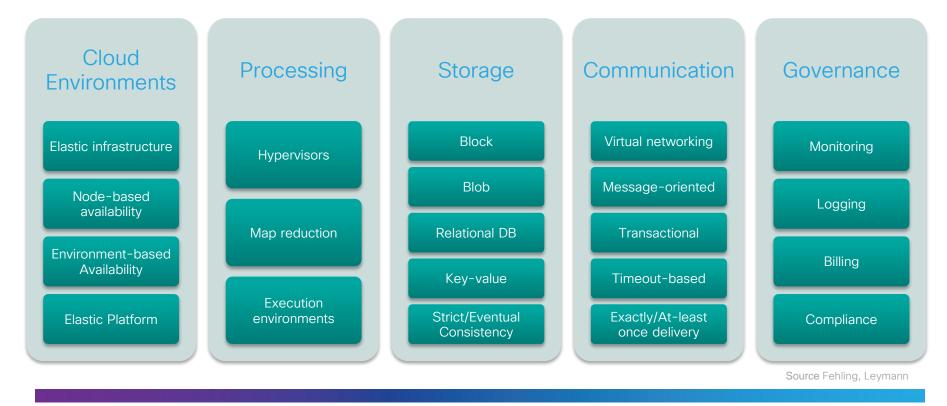




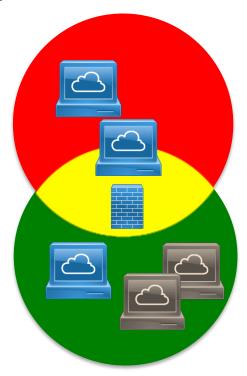
SaaS

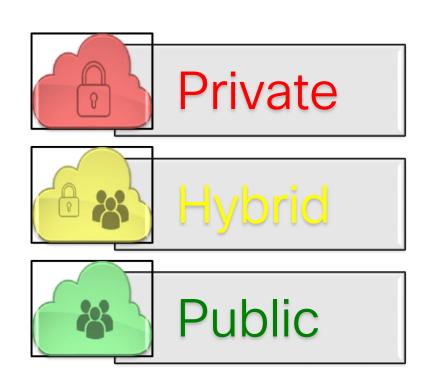


It's not just point and click

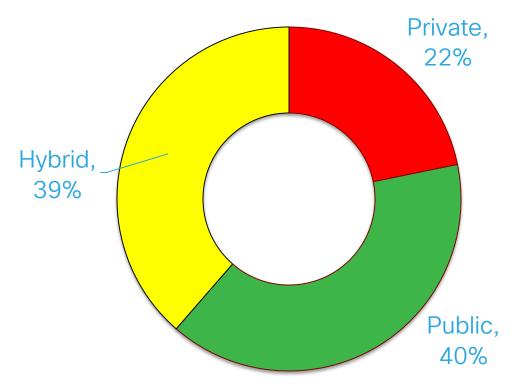


Types of clouds





Types of Clouds



Source: Caitlin White, TechTarget, Dec 2013

The Intercloud

 Problem: Each cloud has physical limitations (geography, resources, etc.)

Solution: A cloud of clouds! Enterprise Private Cloud Intercloud Cisco Powered Cisco Cloud Partner Services Clouds public Image Credit: T. Sridhar clouds

What about security?

Standards compliance







Balancing the CIA Triad



Questions?

Cloud Computing National Institute of Standards and Technology: http://www.nist.gov/itl/cloud/

Cloud Computing Patterns - Arista http://www.cloudcomputingpatterns.org/

Virtual Networking Concepts, VMWare

http://www.vmware.com/files/pdf/virtual_networking_concepts.pdf

Cloud Computing Patterns, Fundamentals to Design, Build, and Manage Cloud Applications by Fehling, Leymann, Springer Publishing 2014, ISBN 978-3-7091-1567-1

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