Cloud Security

Debunking Myth

&

Exploring Reality

Who am I?

Chief Technology Officer for NaviSite, a Time Warner Cable Company

Service provider offering a broad portfolio of personalized managed hosting, cloud, application, and network services

20 years in the industry

Let’s start at the beginning …

What do we mean when we say “cloud”?

But we really mean much more!

While cloud connotes an "as-a-service" delivery model, traditional hosting is often included!

We'll explore DaaS, PaaS, and SaaS more later

Let's focus on IaaS

IaaS itself covers a broad spectrum of deployment models including hyperscale (AWS, Azure), virtual private, hosted private, and on-premise private

The vast majority of applications are still very traditional

What about Netflix?!?!?

While being a great example of a CNA, or cloud native app, the approach remains somewhat unique in the business world

Where does that leave us?

If most apps are "traditional" (they are), then we can think about security in (initially) similar ways

Cloud does, however, play a role in the implementation of security itself!

Let's learn from history

Hosting with a service provider has been a common delivery model for almost two decades

While security approaches used still apply, they are insufficient not only for cloud, but in the face of the evolving threat more generally

The evolving threat

The “bad guys” are more clever than ever!

Long present software vulnerabilities are increasingly being discovered through programmatic code analysis

Attacks are often complex and involve multiple phases with long periods of dormancy

How do we respond?

The “good guys” aren’t just sitting by!

Collaborative security, crowd-sourcing, machine learning, and micro-segmentation are some exciting new approaches

Good governance and hygiene remain of paramount importance

What about DaaS?

DaaS offers compelling solutions to a number of security related concerns

IP protection in the face of a global development model

Ability to secure and continue to run legacy (often vulnerable) apps

PaaS?

Programming language evolution provided (among other things) certain protections

PaaS represents the continuing evolution

Most business applications and development teams continue to use very traditional methods

SaaS?

There is an implied or assumed trust for companies that consume SaaS!

Why is there such an open mindedness for SaaS (SFDC being a ubiquitous example), but strong apprehension to IaaS cloud?

What is one to do?

Cloud is many things, but it is also not all that different!

It is critical to understand your application portfolio, and plan your journey accordingly

Choose your providers based on how their expertise complements your own

Q&A