



Gov-X Innovation Challenge 2021

Cloud Security

Gareth Redelinghuys

Sales Leader





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Background:

I have been working in the IT Security space for the past 20 years.





Today's talking points

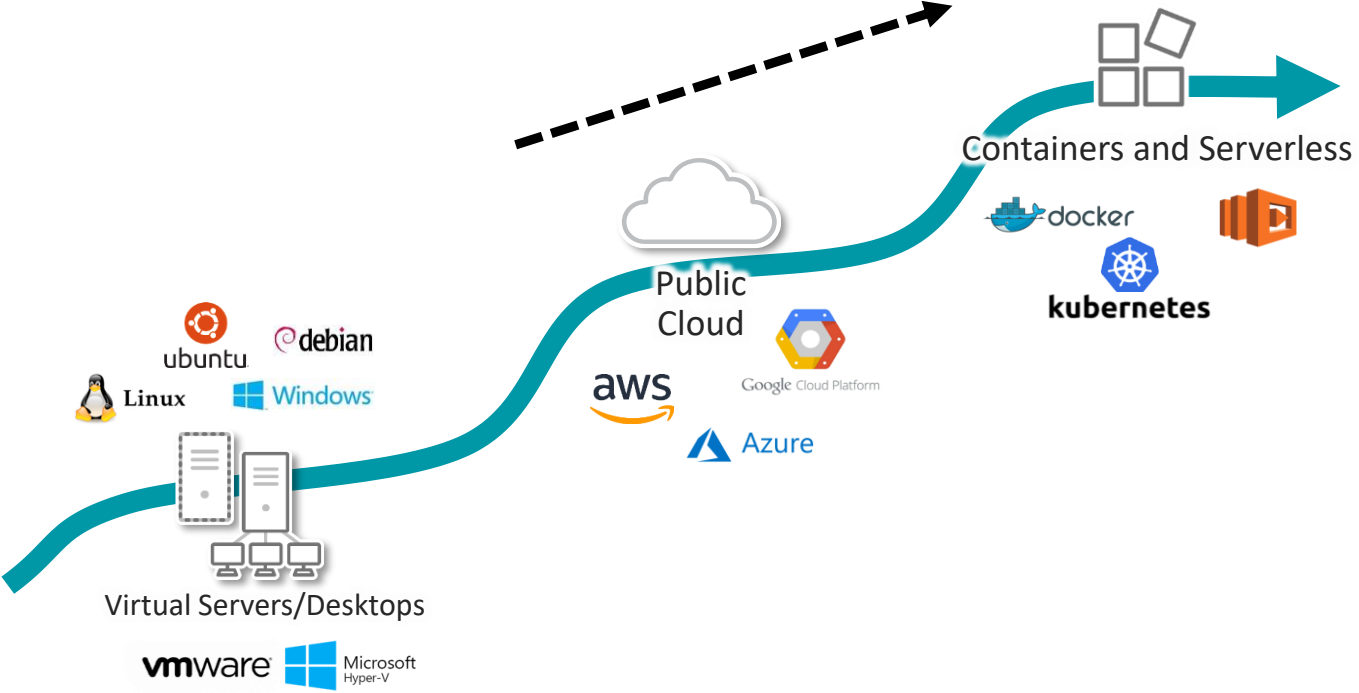
- Cloud Security 101 Introduction
 - Shared Responsibility . IAAS or PaaS How do we protect all this information?
 - Cloud security and why it matters
 - Summary
- 

Cloud Security 101

Introduction



Physical Servers to Multi Cloud



What faster means for the business



Faster time
to market



Faster
feedback



Removing
obstacles



De-risking
new
capabilities

The only differentiator customers have left...

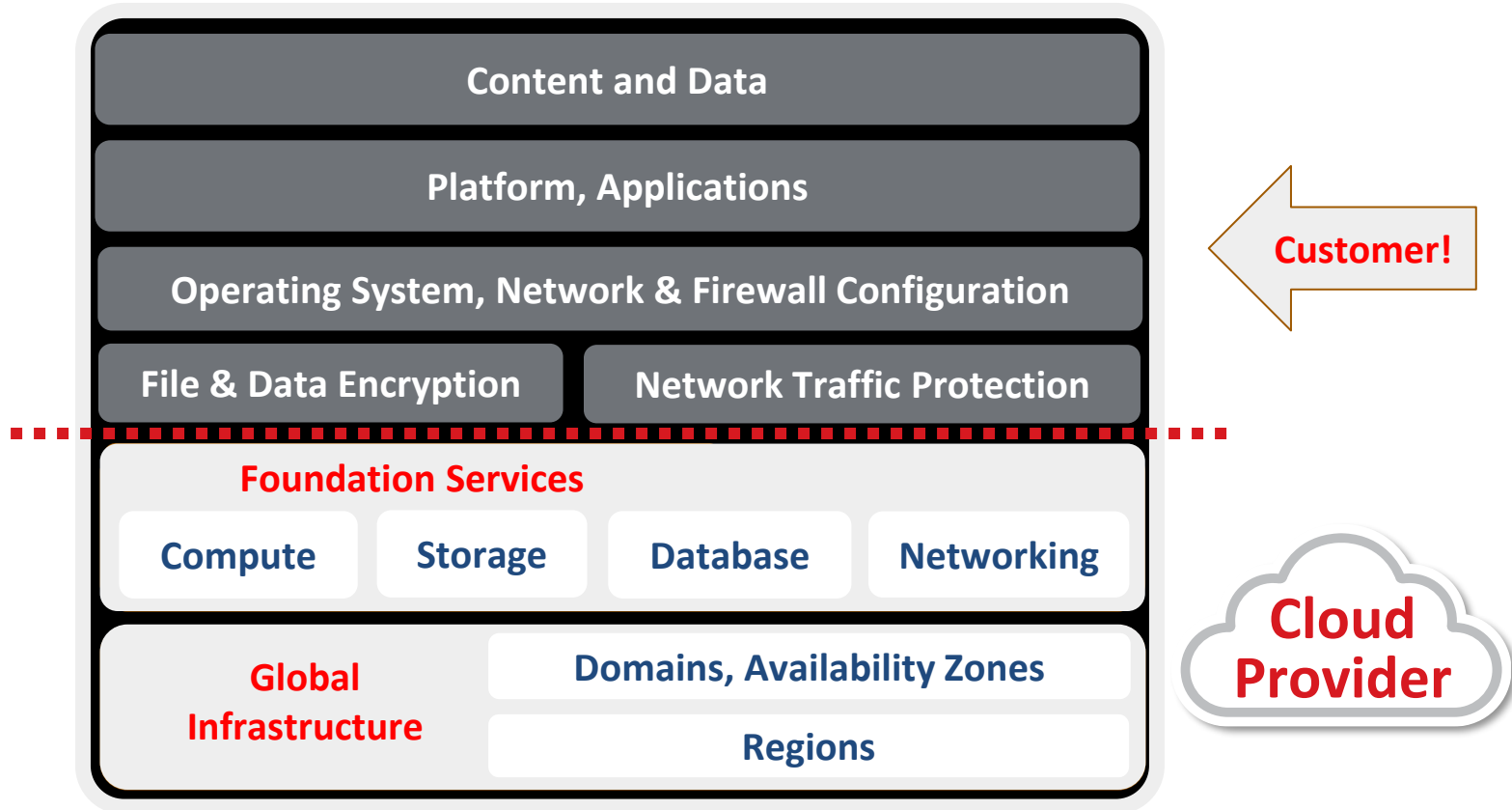
This, is Cloud / Apps



**Shared Responsibility .
IAAS or PaaS How do we
protect all this
information?**



Shared responsibility



Shared Responsibility Model

Cloud Responsibility ? or Customer Responsibility?

Configuring the customers firewall rules that determine what ports are accessible on the web server

Preventing packet sniffing at the hypervisor level

Patching the customer operating system with the latest security patches

Shredding disk drives before they leave a datacenter

Securing the internal network inside the AWS datacenters

Installing camera systems to monitor the physical datacenters

Toggling on the encryption feature to protect customer data

Shared Responsibility Model

AWS Responsibility? or Customer Responsibility?

Performing incident response on the server if there was a breach

Failover of the RDS databases

Getting PCI compliance for application

Logging application specific security events

Security patching of the Xen hypervisor

Managing capacity at data centres

Ensuring customer is compliant with ISO27001

Cloud security and why it matters



How Have Applications Changed?

	Existing Applications = Cash Cow On Prem	New applications = Growth Multi Cloud
App Architecture	monolithic	microservices
Scale	vertical, some horizontal	horizontal
Change Frequency	few times per year to monthly	multiple times per day
Deployment Model	Pets (long-lived)	Cattle (short-lived)
Security Operations	scheduled, manual, runtime	automated CI/CD pipeline + runtime
Security Tools	traditional, manual, static	APIs, cloud-friendly

Why You Need To Care About Security...

Threats:



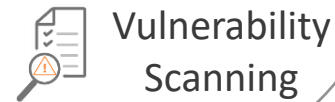
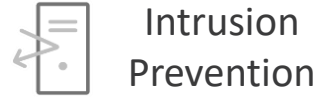
- Network attack
- Vulnerabilities
- Malware
- Insider threats

Compliance:



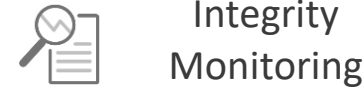
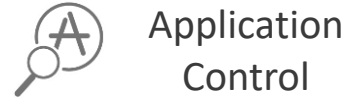
- PCI DSS
- HIPAA
- GDPR
- Internal

Network Security



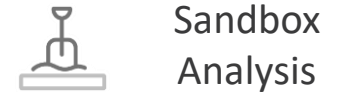
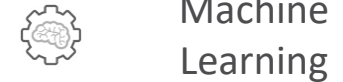
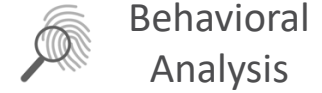
Stop network attacks,
shield against
vulnerabilities

System Security



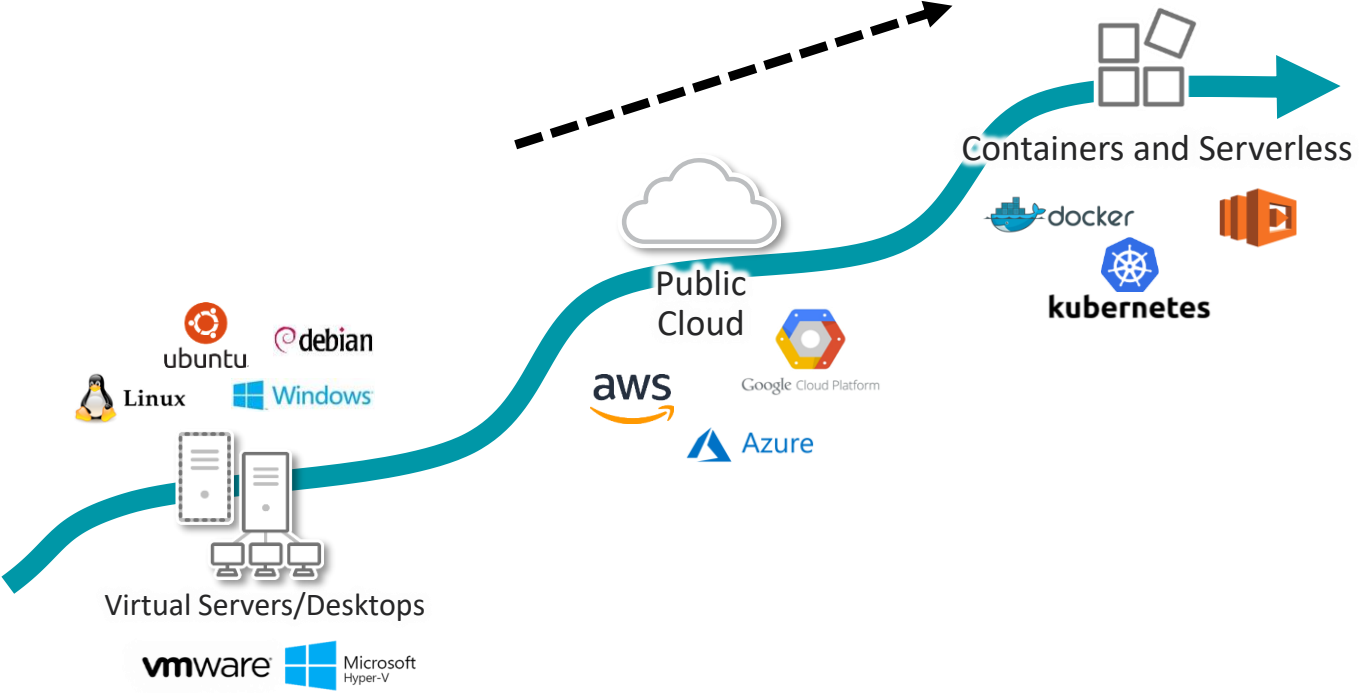
Lock down systems &
detect suspicious
activity

Malware Prevention



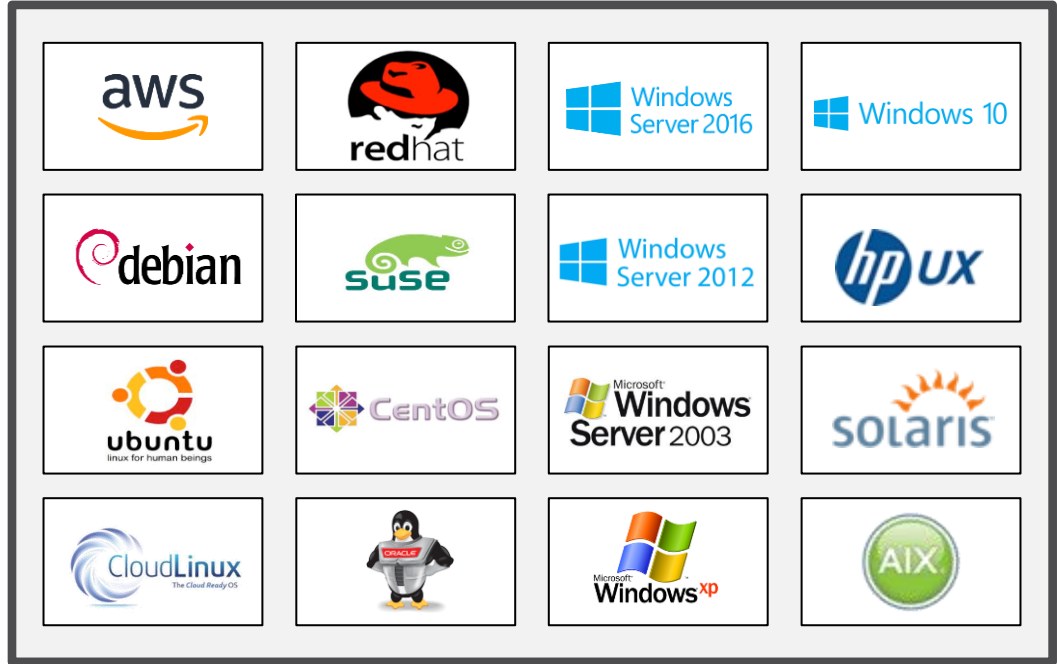
Stop malware &
targeted attacks

Physical Servers to Multi Cloud

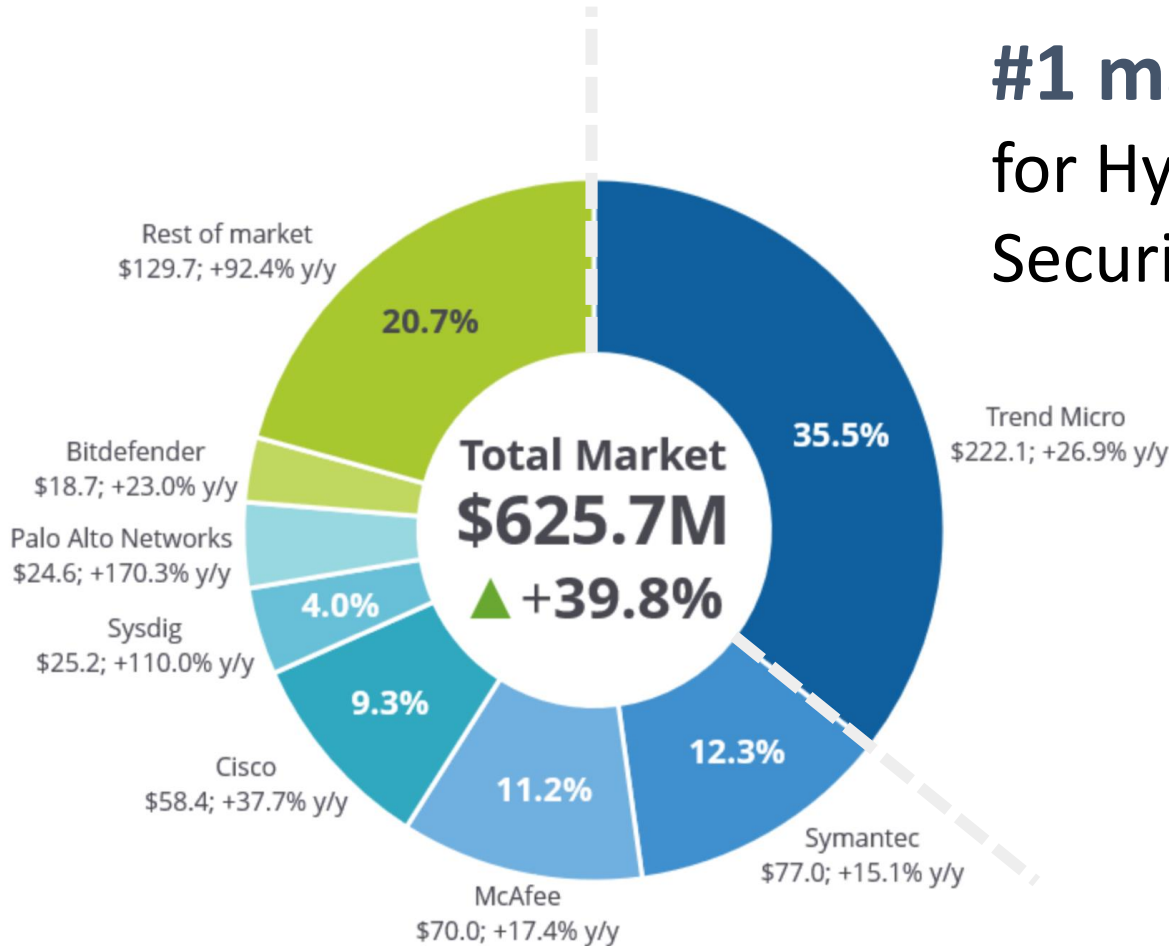


No More Platform Support Issues

Thousands of supported kernels with rapid updates



#1 market share for Hybrid Cloud Workload Security with



Source: IDC, Worldwide Software Defined Compute Workload Security Market Shares, 2018 (DOC #US45638919, November 2019)

Summary

Final thoughts





THANK YOU!

Any questions?

You can find me at

Gareth_redelinghuys@trendmicro.com