# UNITED KINGDOM

## **Cloud Transformation Challenges** Chartered Institute of Information Security

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### **About The founder**





Founder – NSC42 LTD

I've been helping organizations define and implement cybersecurity strategies and protect their organizations against cybersecurity attacks



#### Cloud is just someone else computer Security is everyone else job and needs to be aligned to business needs

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## Francesco Cipollone

cloua & IRELAND alliance

I'm a CISO and a CISO Advisor, Cybersecurity Cloud Expert. Speaker, Researcher and Chair of Cloud security Alliance UK, Researcher and associate to ISC2.













## Our Agenda

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About the author and company

Setting the context

The Challenges

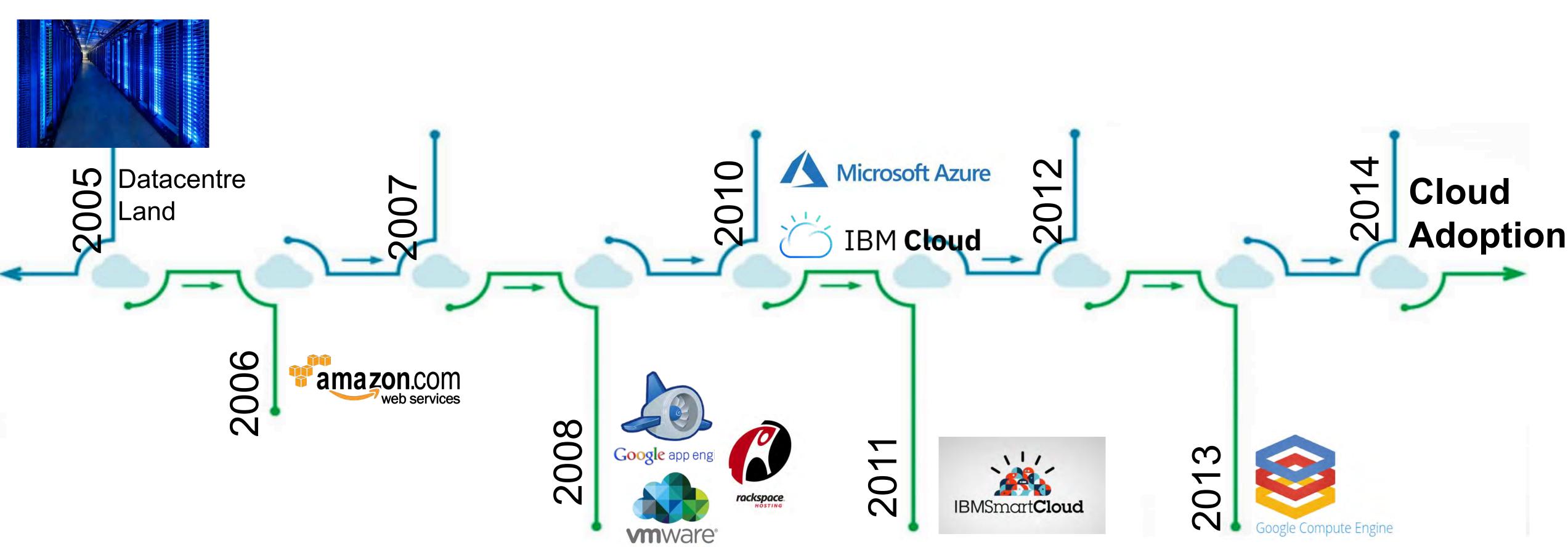
Regulation **Shared Responsibilities Identities and Access controls Patterns Processes review** 

**Caveat/Pitfalls** 

Take Away

Q&A

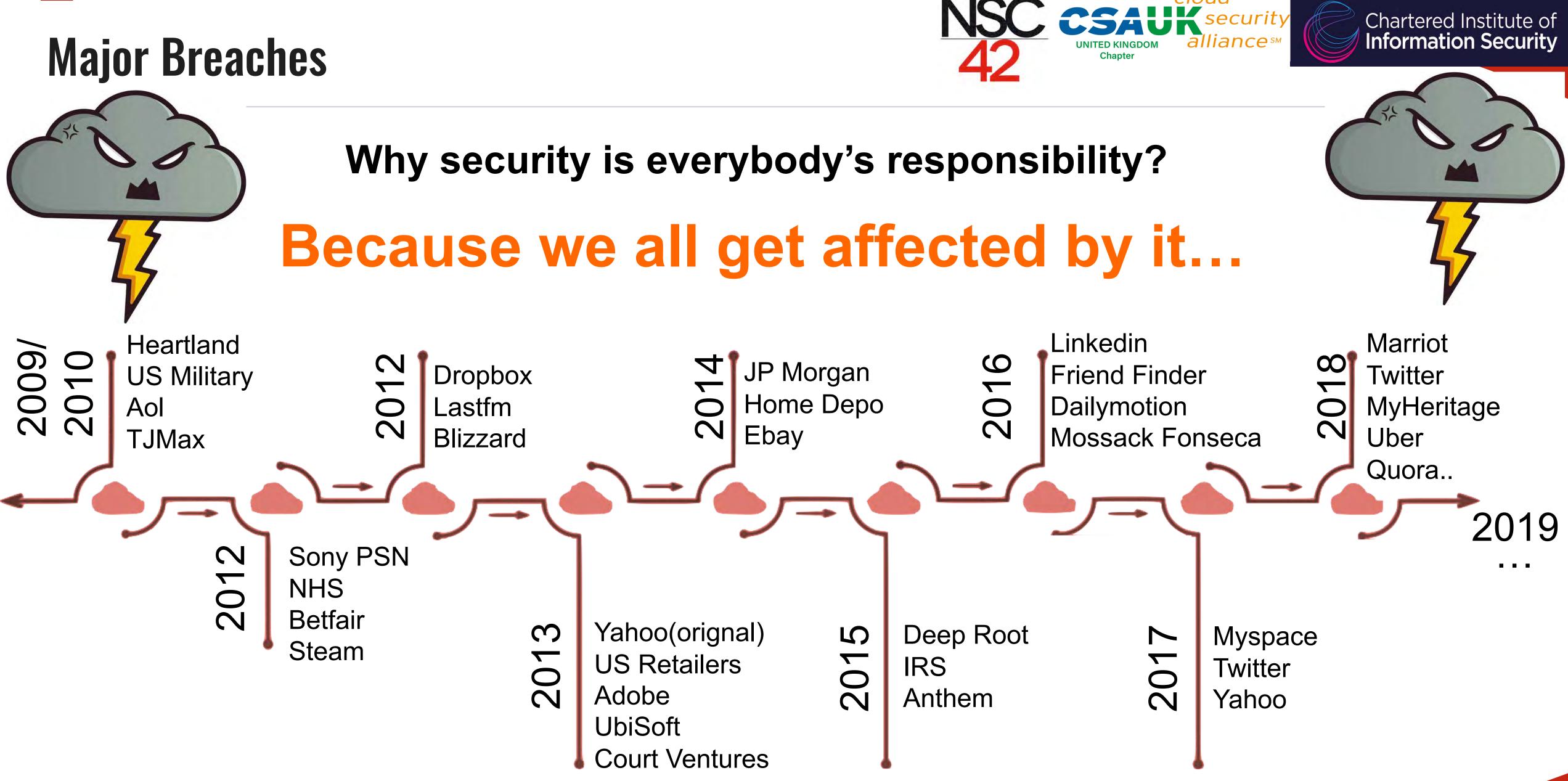
### **Cloud Evolution**



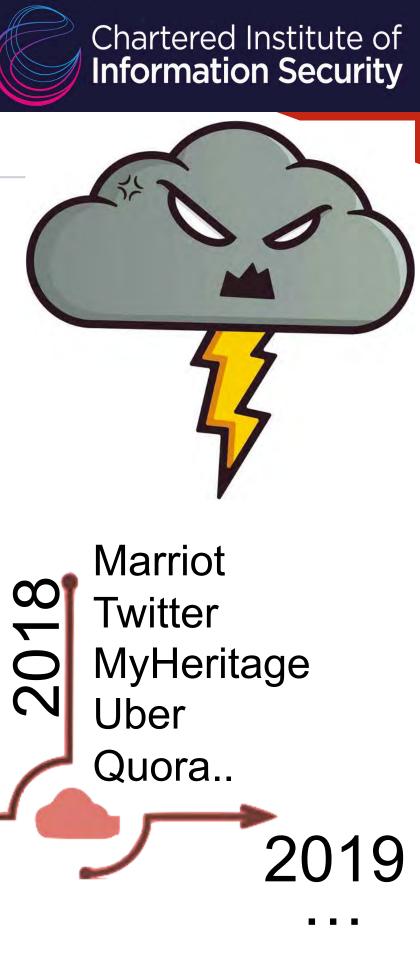
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## **Cloud Security Breaches**

#### Capital One (2019)

Misconfiguration of WAF (web application Firewalls)

#### Accenture (2017)

4 S3 buckets available over the web

#### Verizon (2018)

3<sup>rd</sup> party vendor committed config on a public S3 bucket

#### **Exactos (2018)**

Open Elasticsearch Database

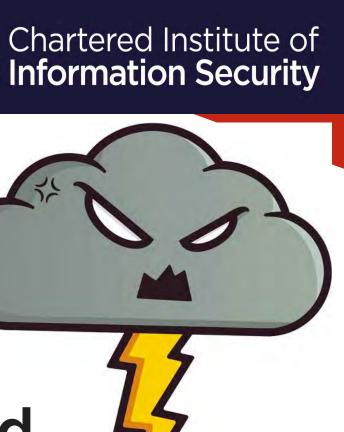
IMPERVA Web application firewall was compromised 2



#### Most Recent Cloud Security Breaches

The common theme around all those breaches are

- **1**. Misconfiguration
- 2. Public Storage
- 3. Easy to guess credentials No MFA on critical accounts
- 4. No segmentations/Blast radius reduction



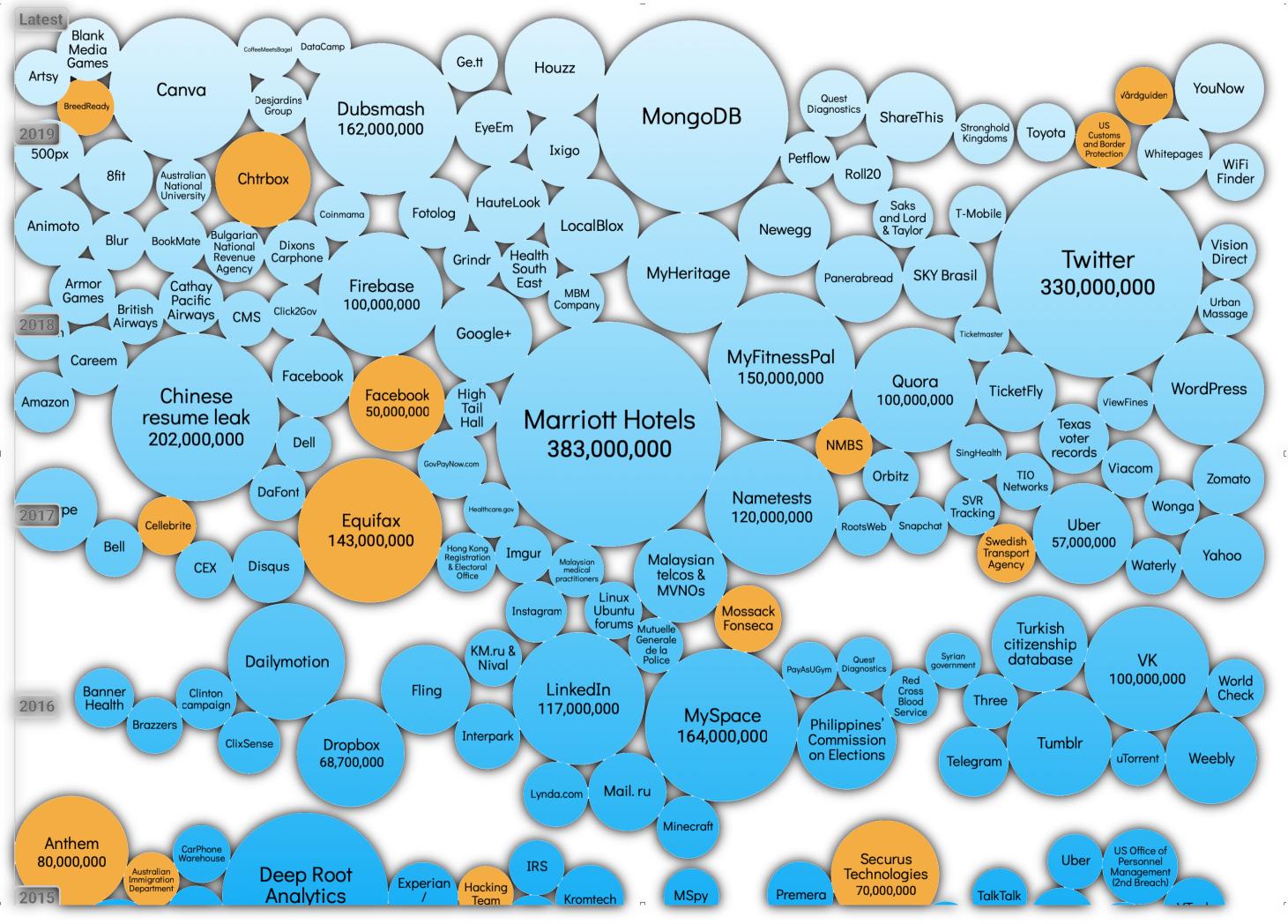
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## Why security?

Data breaches exposed 4.1 billion records in the first half of 2019.

Data breaches are the new norm. They threaten the viability of every business as they're now larger in number and impact.

it takes only one misconfiguration to get a you in front of the newspaper



Source: www.informationisbeautiful.net



## Why Cloud and Why Security

Adversaries don't need many misconfiguration ONE is all it takes.

Is your business equipped with the right tool and trusted partner to address it?

Every min 62K record disclosed Record per minute disclosed Data breaches

80% due to misconfiguration Cloud misconfiguration is dominat





## Total cost of cloud breaches 5 trillion \$ / 4 trillion GBP

N. Of Vuln records 33 billion

Disclosed records over 1 year

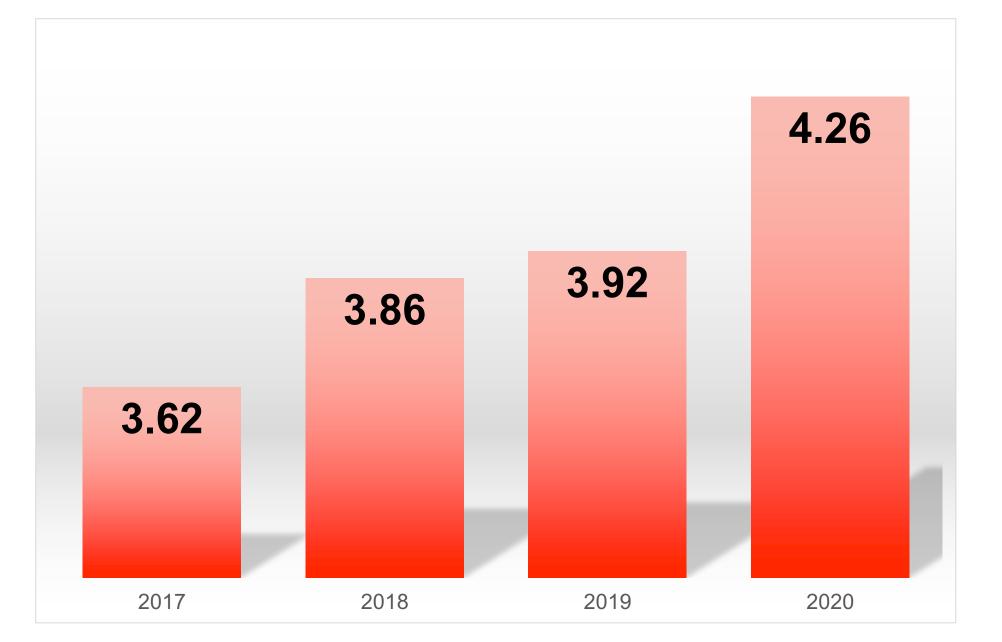
Av. Cost per record 150\$ per record

Average cost per loss record



## The Cybersecurity Sector in Numbers





Source Gartner Report 2018

AVERAGE COST OF DATA BREACH IN MILLION OF DOLLARS

US dollars

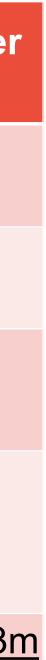


The number of data breaches reported since 2017 to regulators has increased 480%.

71% of breaches in 2019 were financially motivated

Company	Net Loss (\$US)	Settlement/ Regulatory Fine	No. of Customer Affected
eBay	2.33 billion, \$1.82/share	\$650million	147million
Equifax	\$555.9 million	\$700million	147million
Capital One	\$150million	TBD	106million
Travelex	£4.6m ransom + 30 days inactivity	TBD	
Average	the average total of	cost of a breach nov	w stands at £3.03r





## **Top Cyber Security Risks – CSA Report**



#### Account Hijack

Access to Cloud master account

#### **Insider Threat**

6. Rogue Admin,

Rogue Collaborators inside

Bribable individuals

#### **CSP API** Usage

9.

5.

Immature CSP don't provide mechanism to access services via API

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#### **Poor Cloud Usage** Visibility

Lack of monitoring means inability of detection of misuse

#### Lack of Cloud **Security Arch**

Contextual View could leave door open e.g. Use of public Storage for private data

#### **Broken Access** Control

Understanding IAM Roles. Keys not in Code

#### **Insecure API**

CSA Api secure, Key to access the API must be secured



4.

#### Weak Control Plane

Multi Cloud

Control for data migration

(CI/CD)

#### Abuse of Cloud Services

3.

7.

Increase of usage

Usage in unmonitored

regions









## Regulation

Understand Regulation and how will it impact the transformation:

- Out of date regulation
- Roles and responsibilities
- Adapt the mandated control to the cloud
- Refer to existing patterns/control set (e.g. CSA CCM...)
- Refer to cloud based regulation (ISO27017/18, CSA CCM...)



### **HIPPA**



### **FIPS/NIST**

GLBA

## **Common Challenges**

Setting the context and challenges:

- Skills shortages/Upskilling
- Security as part of the cloud journey/Foundation
- Assessment and continuous compliance
- Bringing Management on the journey Disruption and strategy
- Architecture patterns: -
  - don't reinvent the wheel
  - don't take on-premises into the cloud





## ...Considerations

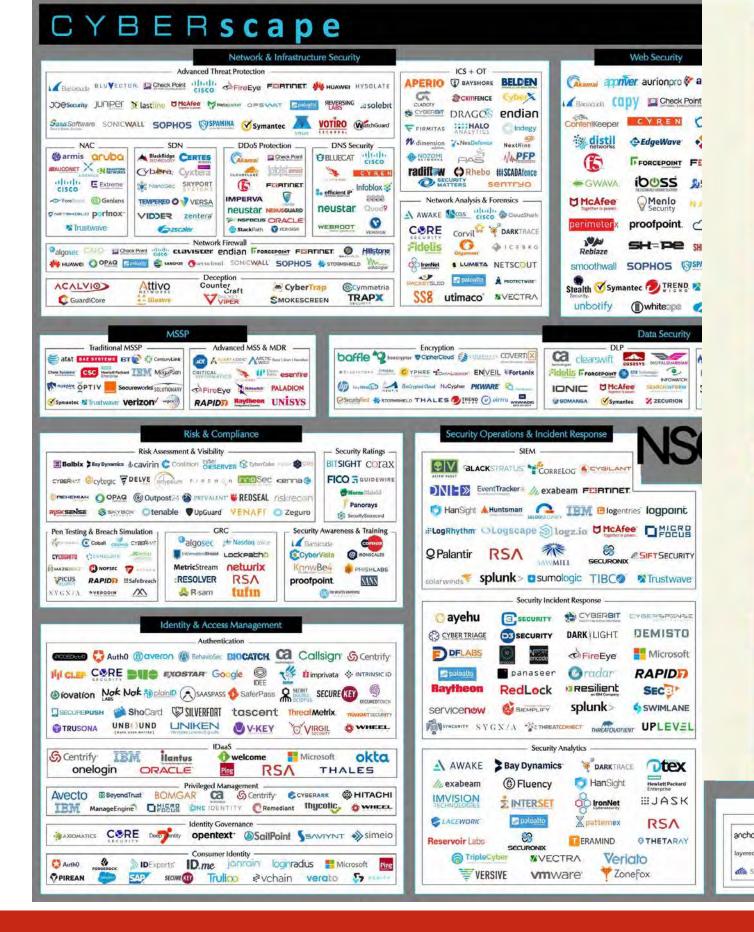
In a cloud transformation, consider the following key elements:

- Shared responsibility model
- Regulation incompatibility
- Identities and Access management
- New work methodologies (DevOPS and Microservices)
- Exposure on something new
- Continuous compliance and new tools



## Fix the problem with technology

#### People – Process – Technology is the mantra of cybersecurity Why starting from the latter?





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#### **Solutions**





#### **Security by Design** 5. Integrate security in design

**Security Testing** Continuous testing









#### **Dev & Shift Left** 6. Integration of security in DEV practices

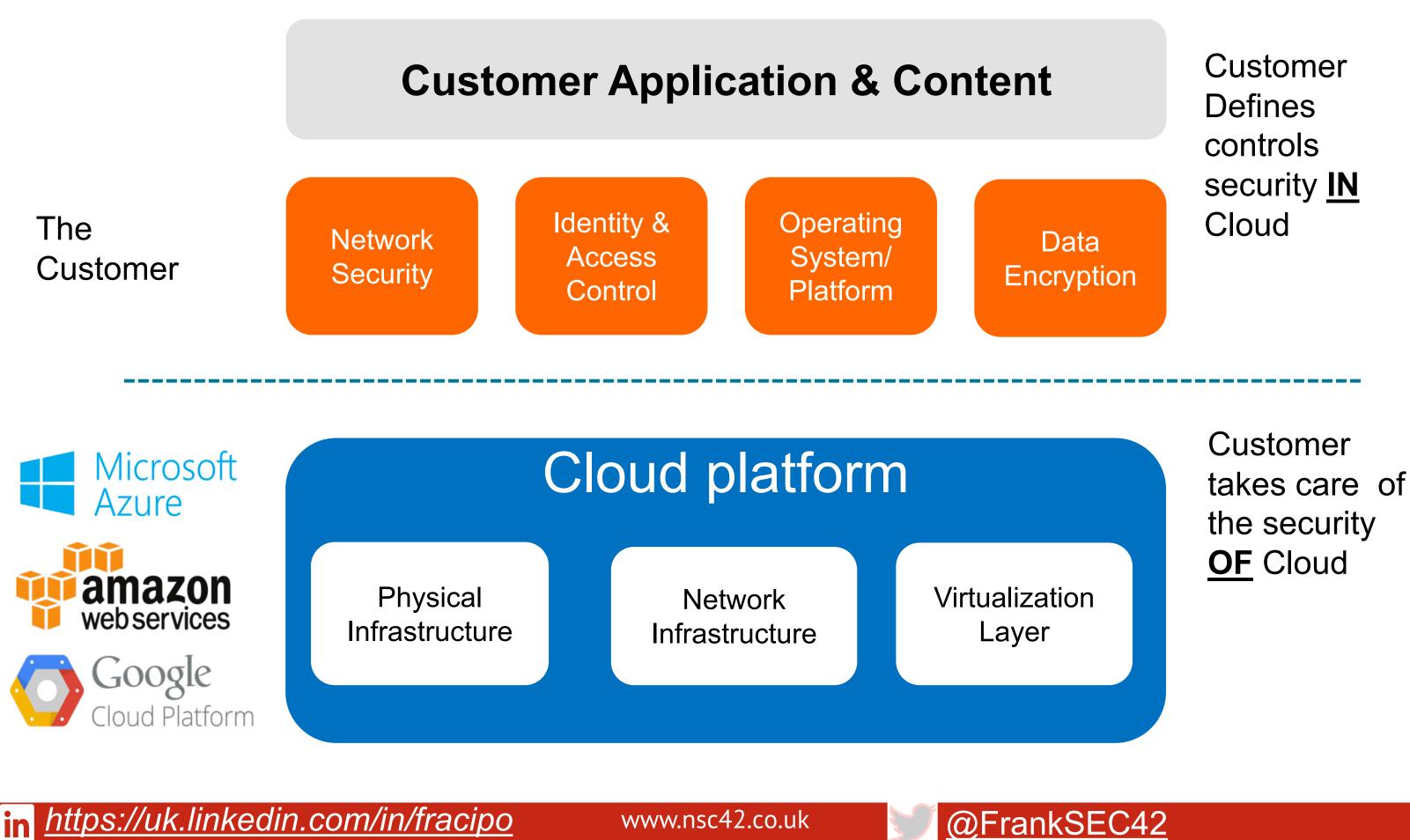
**DevSECops** Security as part of the lifecycle





#### **Step 1 - Cloud Responsibilities**

### Consider what are you are getting yourself into in a cloud migration. Cloud is not natively secure or insecure "Understand Shared Responsibility model Delegation and you'll master cloud"



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#### **Step 1 - Cloud Pizza**



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## laaS, PaaS, SaaS, ...





## How do you build a solid house?

#### You don't skip the foundation!



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#### You don't skip the foundation!











## How do you build a solid cloud (security) foundation? Cultural, Management support and skills

- Management Support 1.
- Disruption and strategy 2.
- Security as part of the cloud journey 3.
- Skills shortages 4.
- 5. Architecture patterns & Re-use



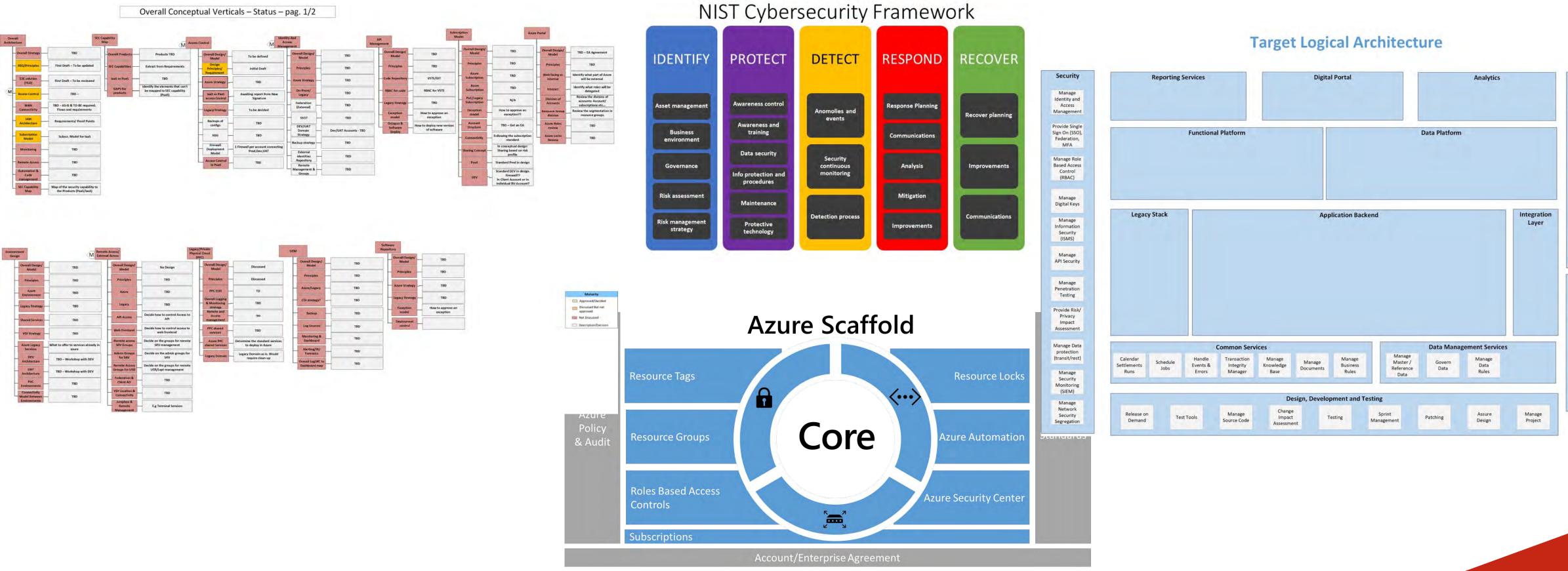








## What Tools do you use for the solid cloud (Security) **Foundation?**



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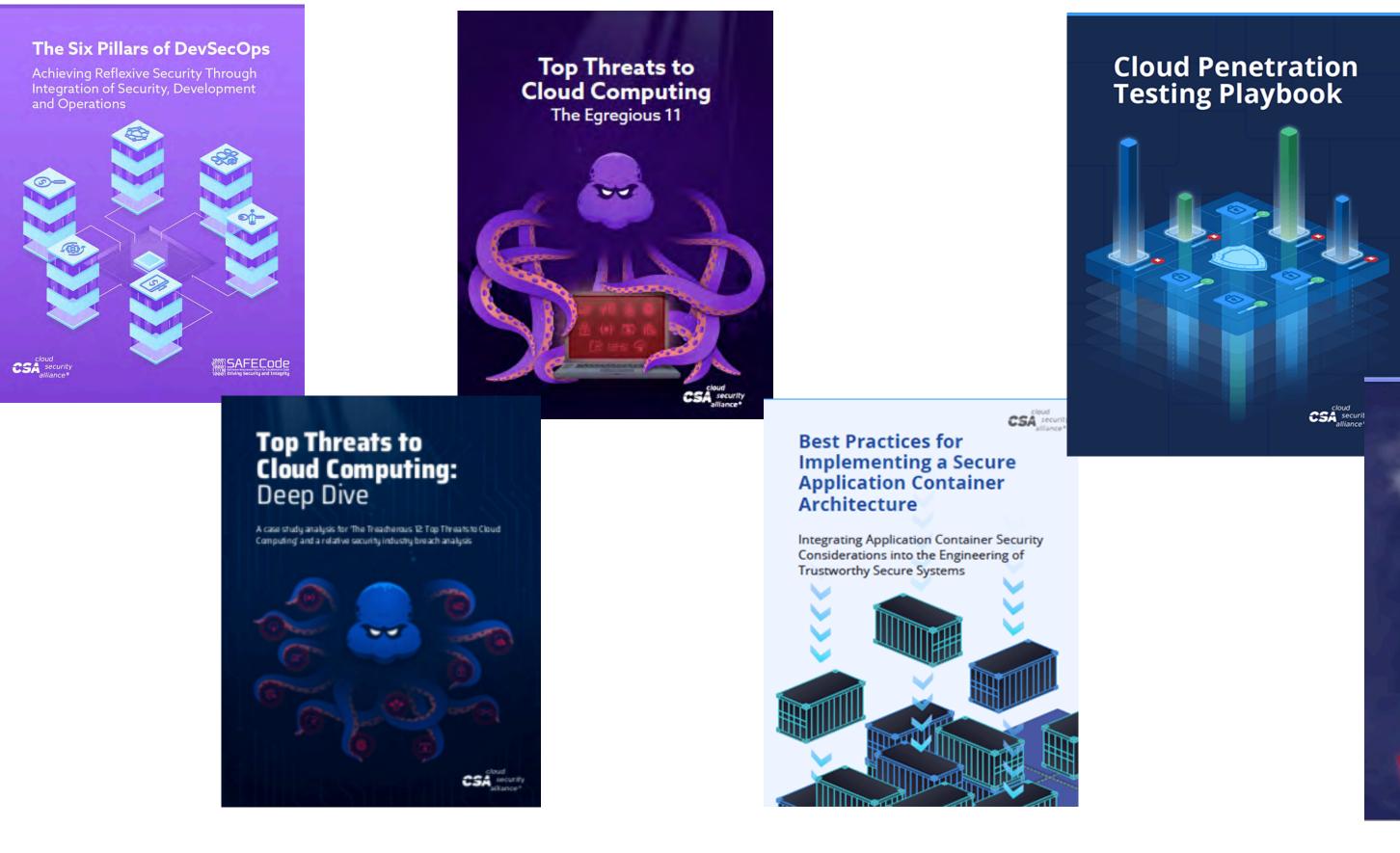








### **Other Tools for foundation**



#### https://cloudsecurityalliance.org/research/artifacts

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Guideline on Effectively Managing Security Service in the Cloud



CSA

<section-header>

SECURITY GUIDANCE

For Critical Areas of Focus In Cloud Computing v4.0







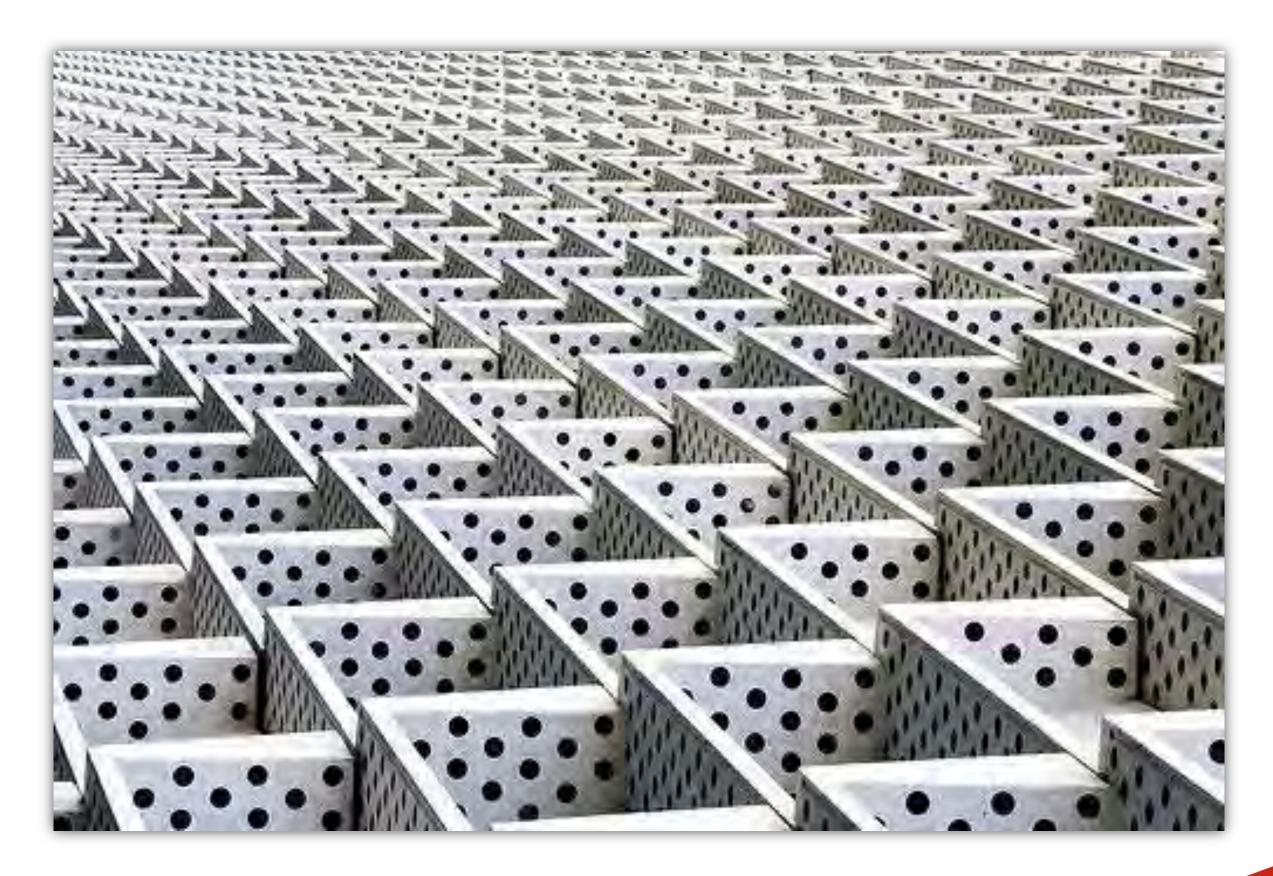


#### "There is no such a thing as free lunch... but leverage on patterns as starting point"

- Account Isolation
- Controls Traditional vs cloud
- Logging and monitoring
- Identity and access management
- Key Management

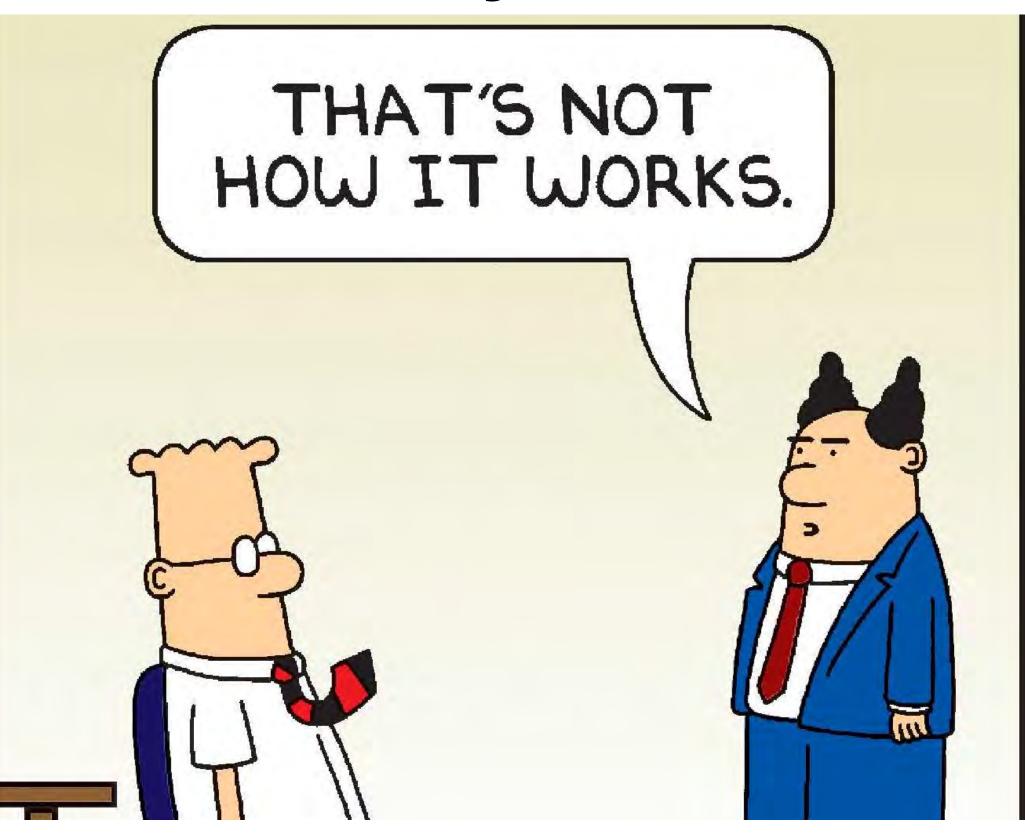














- "How would expand the security team without expanding the team?"
- Train Software Engineers on security and you'll have 'extended' security team"



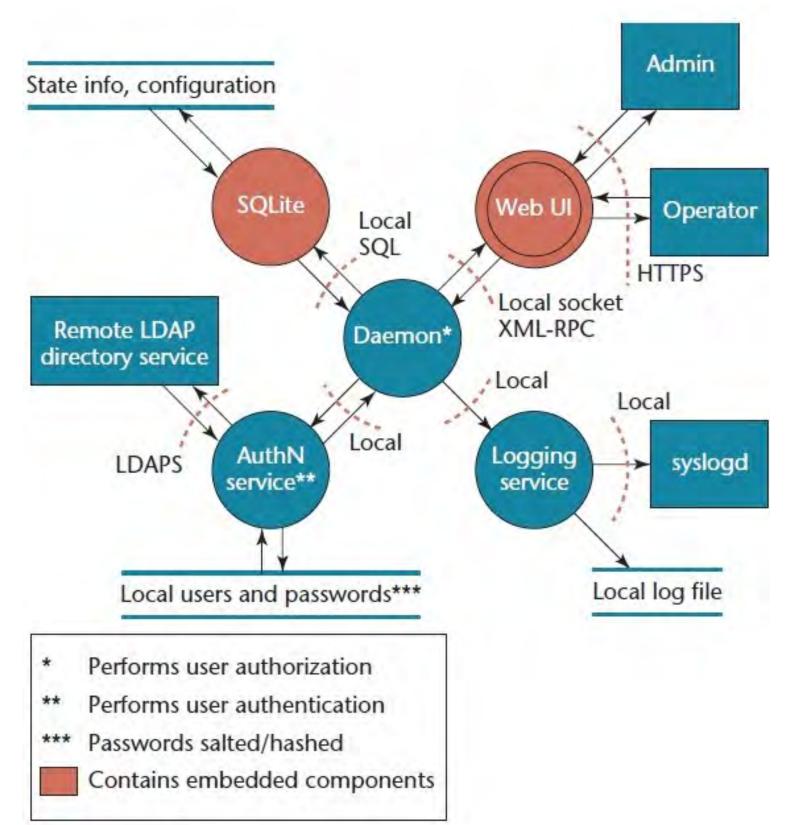








## "So what would the software engineer do with the security hat on?" How do we make threat security fun?" "gamification...remember to have fun when doing your job"



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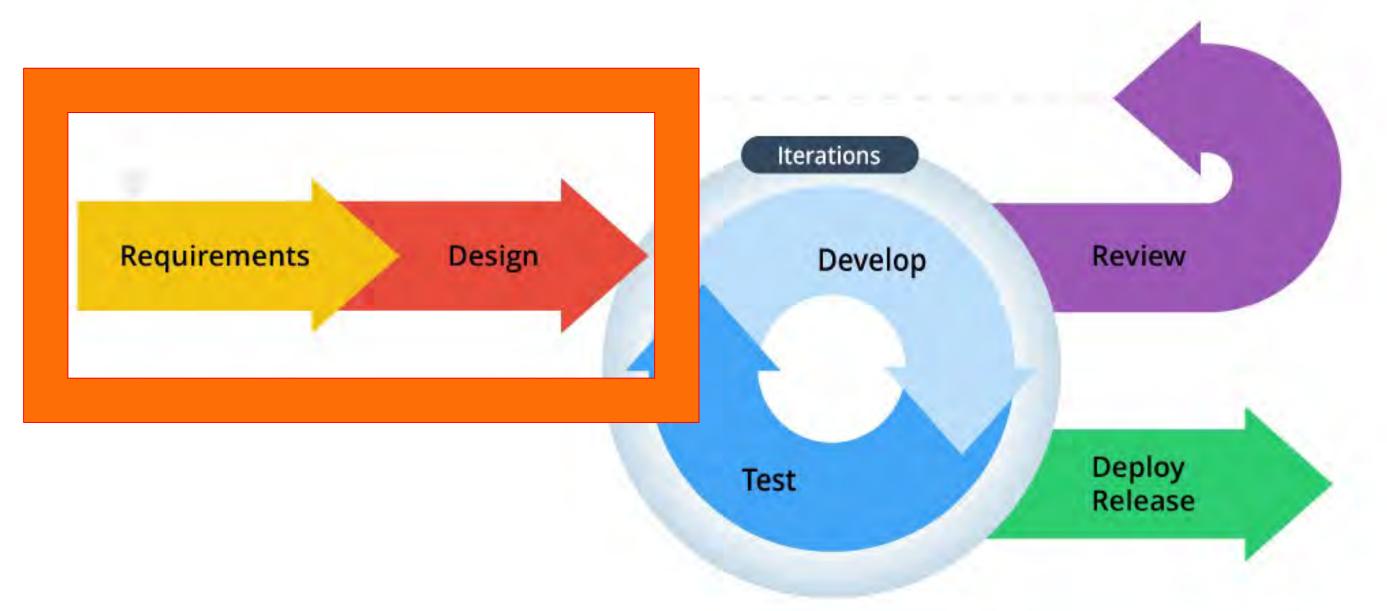








### "Security as early as possible: Integrate security in the software development pipeline"



SECURITY ACTIVITIES: Threat Modeling

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**Code Review** Statis Analysis Dynamic Analysis **Requirements Testing**  **Penetration Testing** Security Sign-off

Keep Threat or fraud model exercise concise and fun! Don't overcomplicate

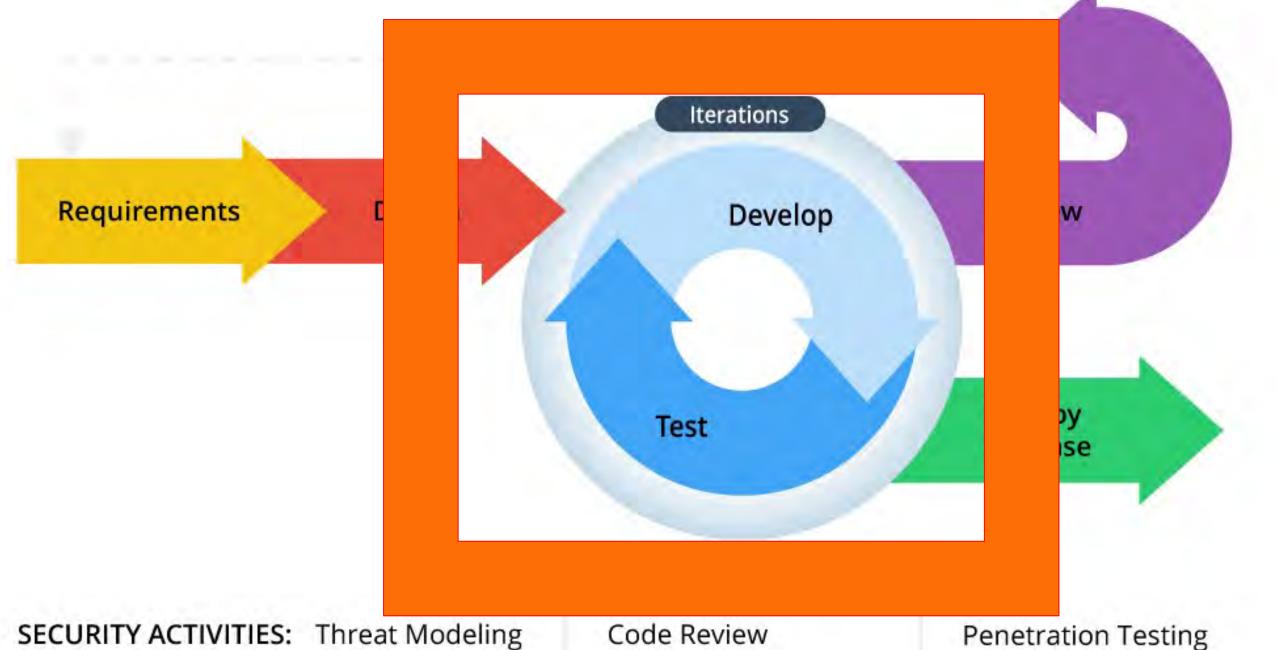
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#### "Security (Testing) as early as possible"



SECURITY ACTIVITIES: Threat Modeling

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- **Code Review**
- Statis Analysis
- **Dynamic Analysis**
- **Requirements Testing**

Security testing as bug bounty program! Make it fun and rewarding

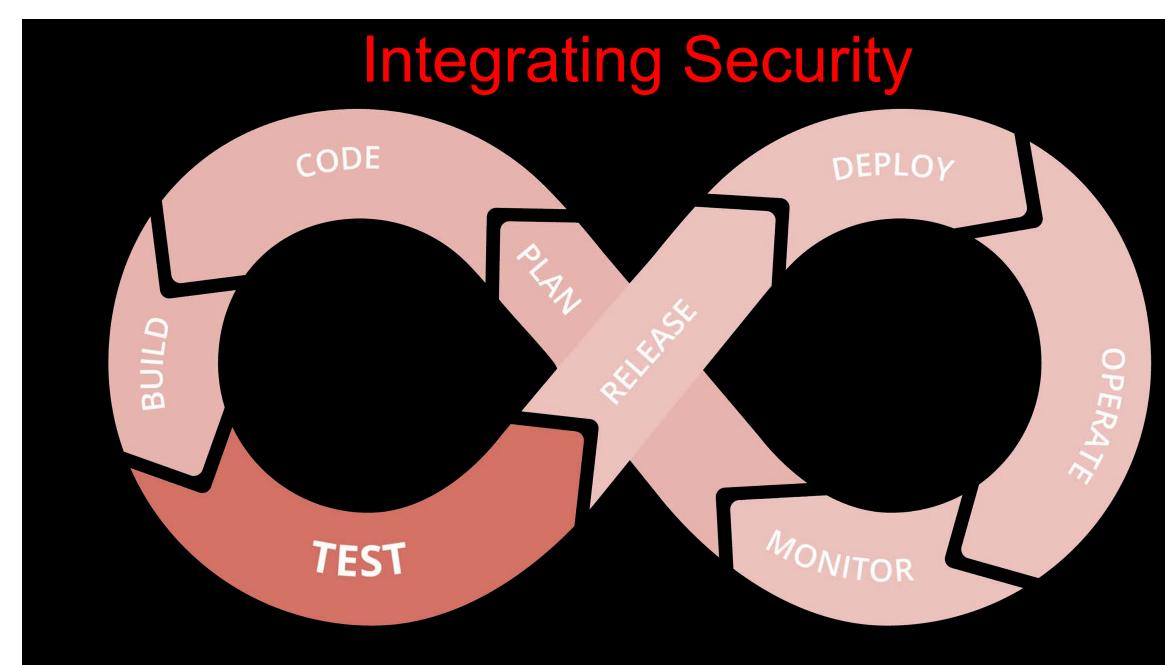
Security Sign-off







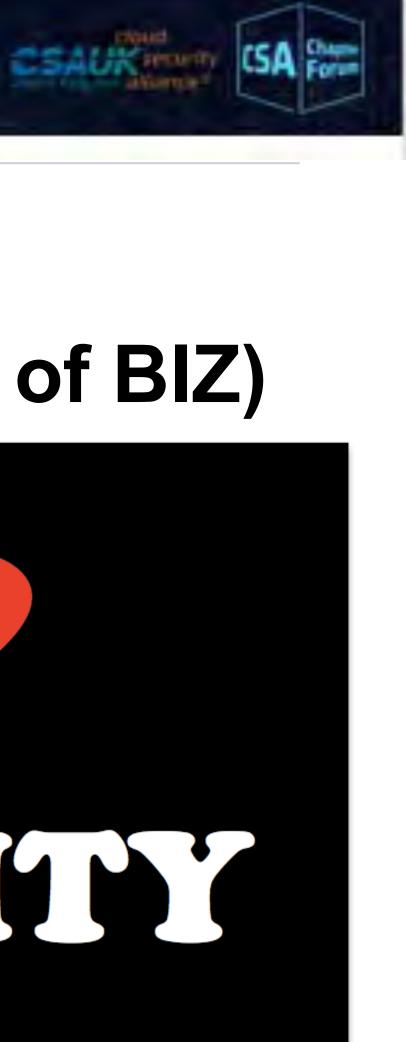
## What kind of animal is the DEV-SEC-OPS? Integrate security into the OPS team (and add a spark of BIZ)



## **Reward security effort with -> Low cost High Impact**

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Security is everybody responsibility.

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#### Step 8 - DEV–SEC–OPS(BIZ)

### **6 DEVSECOPS Pillars**

#### **DEVSECOPS** – continuous integration and alignment to business

Pillar 1	Pillar 2	Pillar 3	Pillar 4	Pillar 5	Pillar 6
Collective Responsibility	Security & Ops Collaboration	<b>Be Pragmatic!</b>	Bridge Compliance	Automation	Measure/Monito r/Report/Action
Security is everyone job	Testing and incremental integration of tools	Privacy, security are all part of a risk assessment (NOT) Going live is a risk	Monitoring & continuous compliance	Automate the boring stuff. E.g. Testing as scripts	You don't know who attacked you and why if you don't monitor it
	ow Maturity			Higher Maturity	

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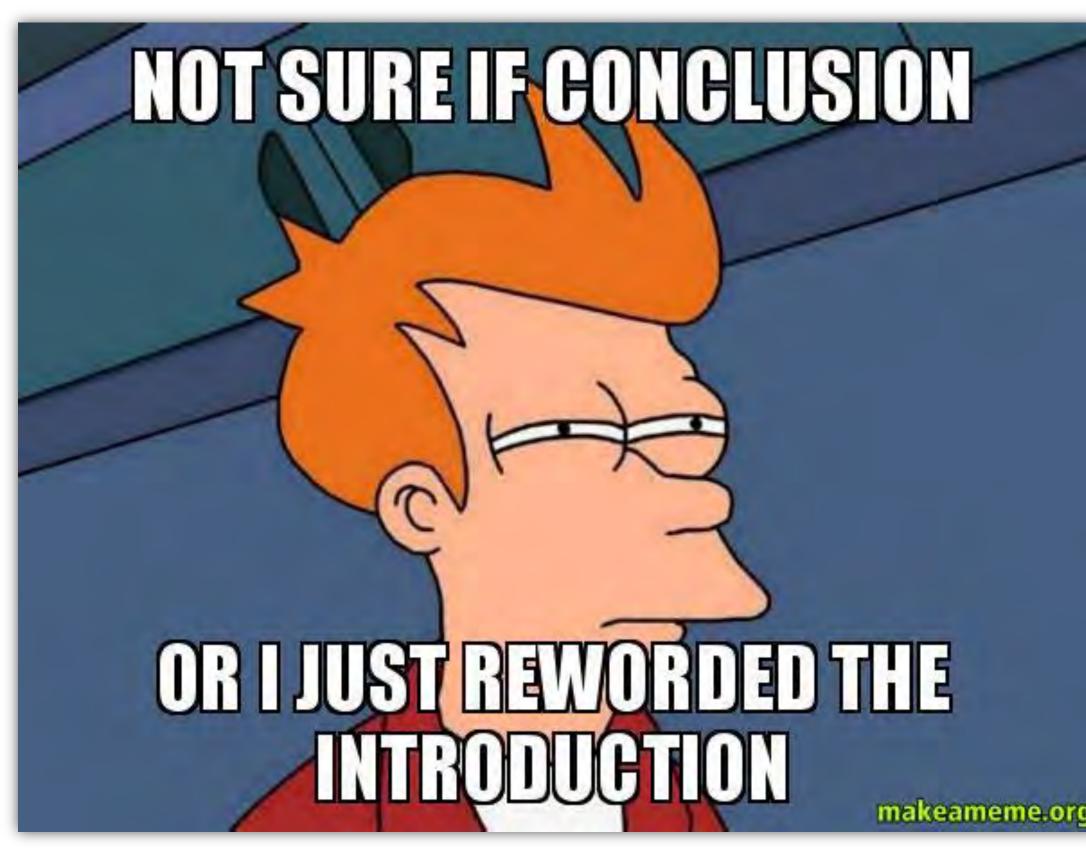
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## Conclusions

Wrapping up, we've discussed

- Cloud transformations planning
- Challenges and how to address them
- New Architecture/methodologies



#### **Conclusions conslusions conclusions**



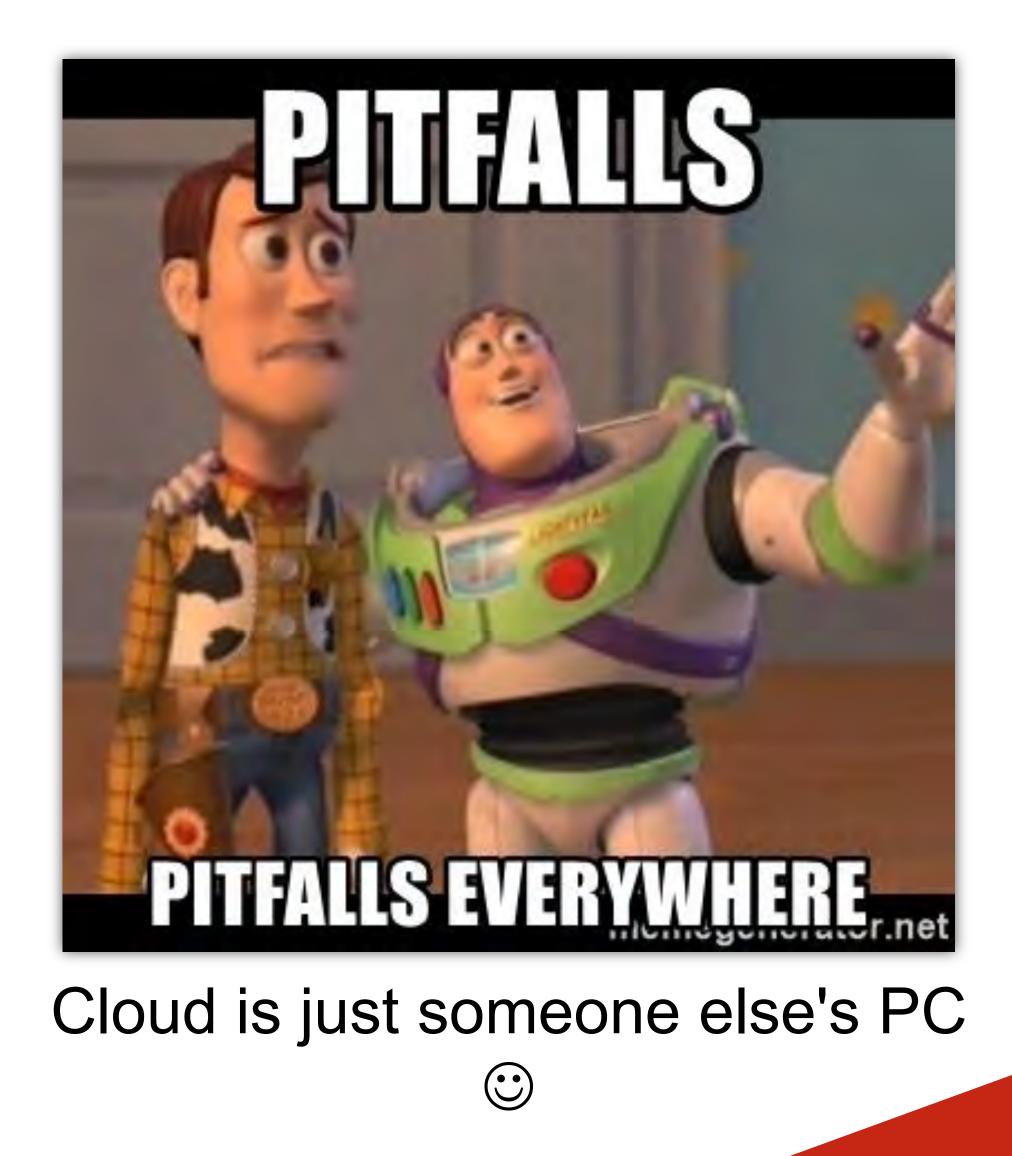




## **Caveats/Pitfalls**

Cloud transformations can be a treacherous journey especially for security professionals. Watch out for the common pitfalls

- Security imposed to cloud transformation with just policies/standards and antiquated patterns.
- Security team would require upskilling to understand how to best make use of the cloud fabric
- Transformation team can aggregate cloud transformation with other resulting in increased pressure on the security team.

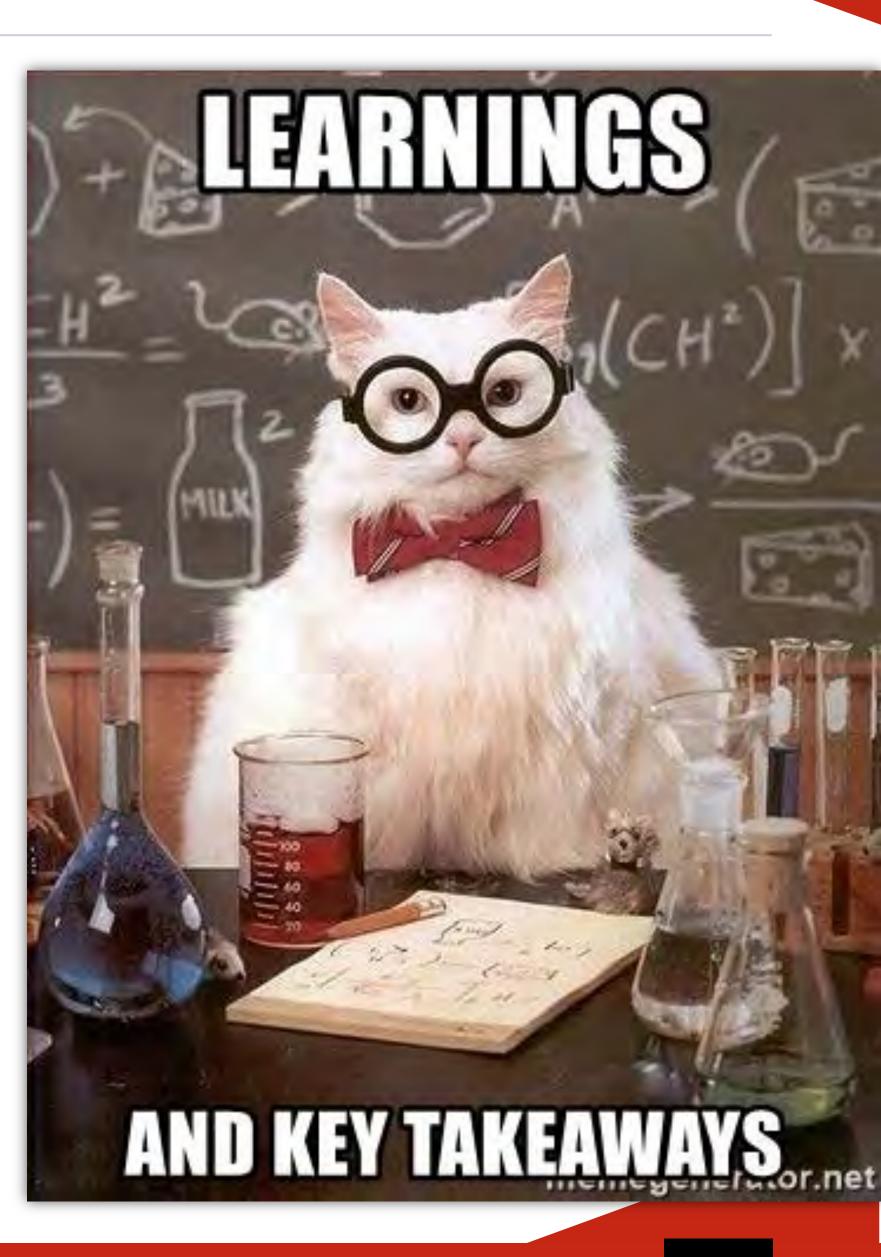




## Take Away

Cloud transformations can be a treacherous journey especially for security professionals:

- **Decisions & Strategy**
- Foundation (Security)
- Security by design
- Native tool! Use them
- Skill shortage: be prepared to learn
- Automation





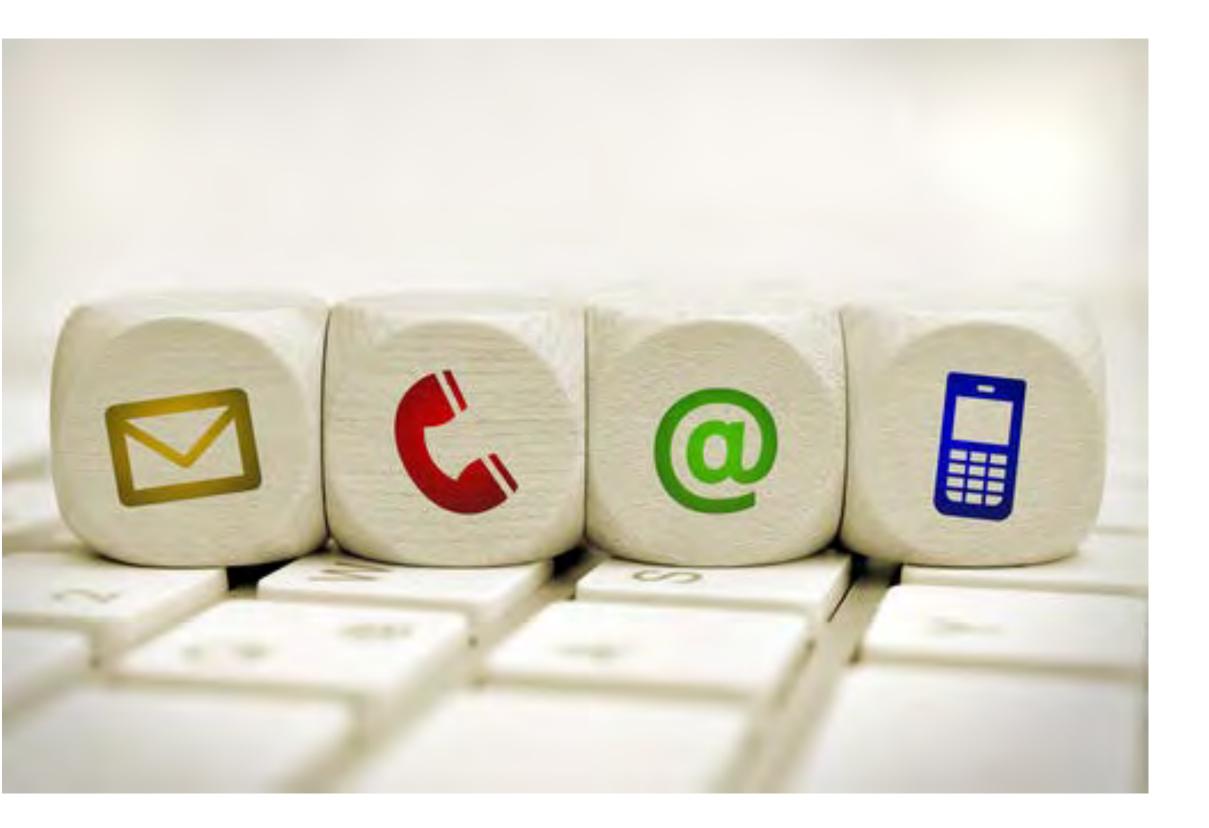
# ONE DOES NOT SIMPLY VEA PRESENTATION WITHOUT Q&A imgflip.com



#### **Question and Answers**



## Contacts







## Thank you Get in touch:



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Francesco.cipollone (at) nsc42.co.uk



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## **Problem with vendor only solution**

## Too many vendors Too many alerts & dashboards

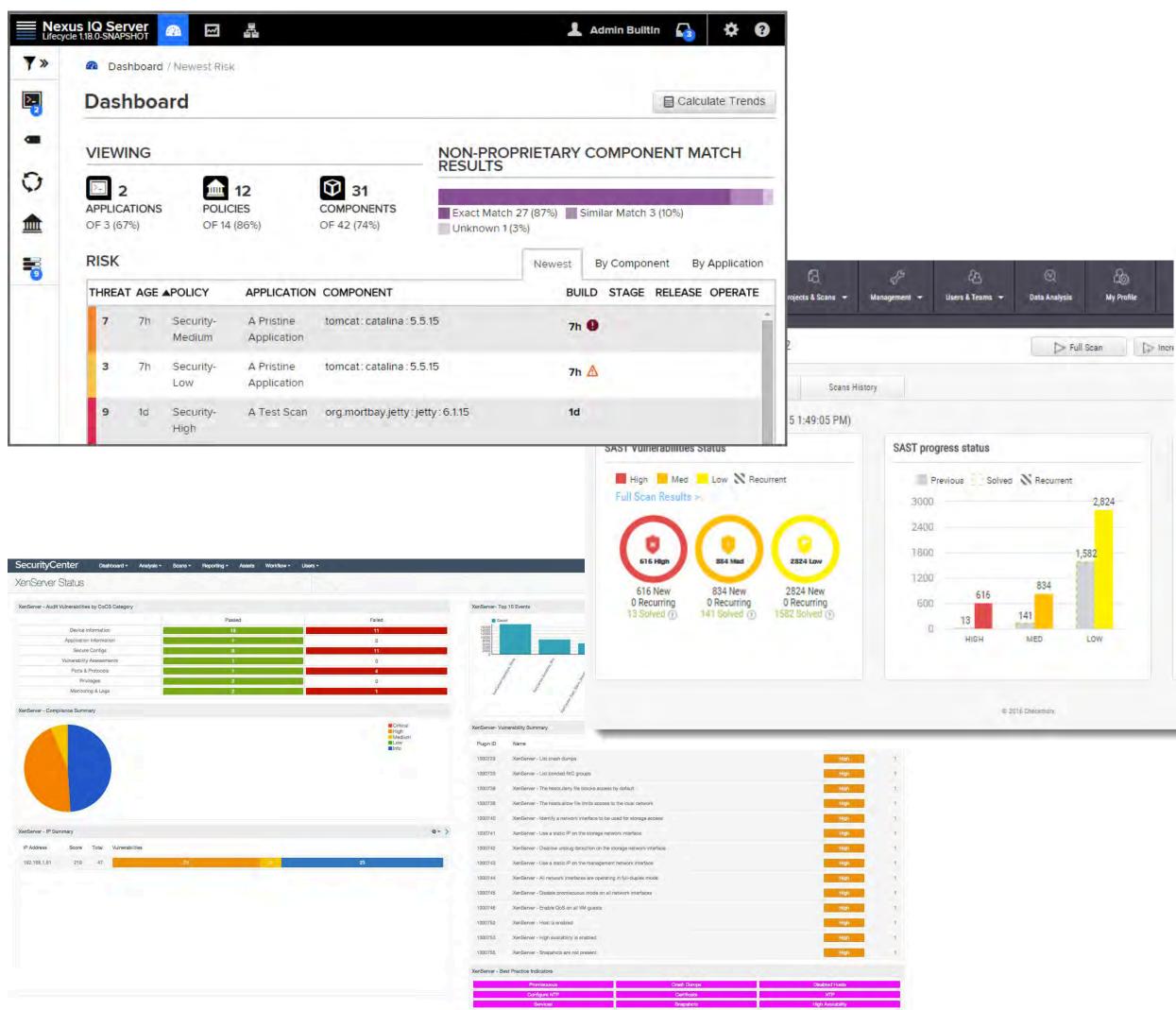
Not enough skilled expertise

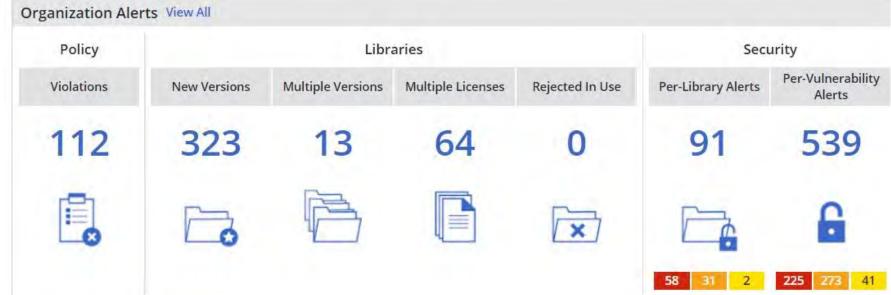
Not enough time



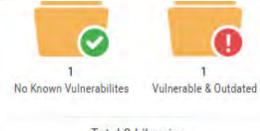
## Fix the problem with technology

#### The More technologies the more dashboards





Top 10 Products (22) View All				
Product	Projects	Libraries	Vulnerable Libraries	Licenses
Struts	29	127	High: 8 Medium: 2	18
NewProj	5	24	High: 5 Medium: 4	14
CRM_Prod	4	81	High: 10 Medium: 1	19
KSA	3	42	High: 8 Medium: 1	8
Demo Product	2	328	High: 13 Medium: 13	31
My Product	2	36	High: 2 Medium: 3	9
enkins Test	2	10	No Vulnerabilities	1
ERP-1.0_Repo	1	318	High: 12 Medium: 13	29
ERP-1.0_Build	1	318	High: 12 Medium: 13	29
EUA_2019	1	39	High: 8 Medium: 1	9





1442 Web Server Detection

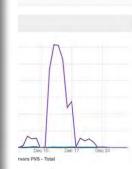
1724 Microsoft IIS Server Detection

10107 HTTP Server Type and Version

4667 Persistent Cookie Utilization

Last Updated: 2 minutes ago

24260 HyperText Transfer Protocol (HTTP) Information



Web Servers [Passive] Info 3711

Web Servers (Passive) Info 406

Web Servers (Passive) Info 214

Web Servers

Web Servers

Info 238

Info 234

OWASP Top 10 - 90 Day Trend Analysis for High Severity Web Vulnerabilit



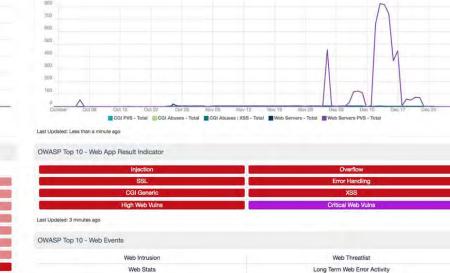
Switch Dashboard - Options -

NNM Detected Web Access

Apache Web Access

IIS Web Access

	System	Vulnerabilities	Exploitable
A1 - Injection	23	142	65%
2 - Broken Authentication and Sess	6	6	0%
A3 - Cross-Site Scripting (XSS)	11	47	62%
44 - Insecure Direct Object Reference	7	19	63%
A5 - Security Misconfiguration	136	209	25%
A6 - Sensitive Data Exposure	101	154	75%
V7 - Missing Function Level Access	7	16	56%
8 - Cross-Site Request Forgery (CS	1	1	100%
A9 - Using Known Vulnerable Comp	0	0	0%
10 - Unvalidated Redirects and For	0	0	0%
ist Updated: 3 minutes ago			
WASP Top 10 - Web Informational Vulne	rabilities		
Plugin ID Name		Family	Severity Total



Apache Web Error IIS Web Error Last Updated: 3 minutes ago

NNM Detected Web Error

#### OWASP Top 10 - SQL Events and Vulnerabilities

Suspicious SQL User Database Dump	Suspicious SQL Command Detection
SQL Injection Vulnerability Detected	Suspicious SQL Query Detected
SQL Intrusion	Database Stats
SQL Error	SQL Login Failure

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## Fix the problem with technology

### Too many alert Too little time Who can you trust?

#### Total cost of cloud breaches 5 trillion \$ 4 trillion GBP

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1	7/25/12 11:00:34.000 PM	WMI:WinEventLog:Application	WMI:WinEventLog:Application	-	20120725230034.000000 Category=10 CategoryString=Online Defragmentation EventCode=701 EventIdentifier=701
2	7/25/12 11:00:27.000 PM	WMI:WinEventLog:Application	WMI:WinEventLog:Application		20120725230027.000000 Category=10 CategoryString=Online Defragmentation EventCode=700 EventIdentifier=700
191	7/25/12 11:00:15.000 PM	WMI:WinEventLog:Application	WMI:WinEventLog:Application		20120725230015.000000 Category=10 CategoryString=Online Defragmentation EventCode=700 EventIdentifier=700
4	7/25/12 11:00:15.000 PM	WMI:WinEventLog:Application	WMI:WinEventLog:Application		20120725230015.000000 Category=10 CategoryString=Online Defragmentation EventCode=701 EventIdentifier=701
5	7/25/12 10:16:57.000 PM	WMI:WinEventLog:Application	WMI:WinEventLog:Application		20120725221657.000000 Category=7 CategoryString=Core EventCode=10000 EventIdentifier=10000 EventType=3
В	7/25/12 10:00:43.000 PM	WMI:WinEventLog:Application	WMI:WinEventLog:Application		20120725220043.000000 Category=10 CategoryString=Online Defragmentation EventCode=701 EventIdentifier=701
7	7/25/12 10:00:27.000 PM	WMI:WinEventLog:Application	WMI:WinEventLog:Application		20120725220027.000000 Category=10 CategoryString=Online Defragmentation EventCode=700 EventIdentifier=700
B,	7/25/12 10:00:18.000 PM	WMI:WinEventLog:Application	WMI:WinEventLog:Application		20120725220018.000000 Category=10 CategoryString=Online Defragmentation EventCode=701 EventIdentifier=701
9	7/25/12 10:00:15.000 PM	WMI:WinEventLog:Application	WMI:WinEventLog:Application		20120725220015.000000 Category=10 CategoryString=Online Defragmentation EventCode=700 EventIdentifier=700
10	7/25/12 9:09:11.000 PM	WMI:WinEventLog:Application	WMI:WinEventLog:Application		20120725210911.000000 Category=0 CategoryString=NULL EventCode=1704 EventIdentifier=1073743528 EventTy
11	7/25/12 9:00:41.000 PM	WMI:WinEventLog:Application	WMI:WinEventLog:Application		20120725210041.000000 Category=10 CategoryString=Online Defragmentation EventCode=701 EventIdentifier=701
12	7/25/12 9:00:27.000 PM	WMI:WinEventLog:Application	WMI:WinEventLog:Application		20120725210027.000000 Category=10 CategoryString=Online Defragmentation EventCode=700 EventIdentifier=700
13	7/25/12 9:00:17.000 PM	WMI:WinEventLog:Application	WMI:WinEventLog:Application		20120725210017.000000 Category=10 CategoryString=Online Defragmentation EventCode=701 EventIdentifier=701
14	7/25/12 9:00:16.000 PM	WMI:WinEventLog:Application	WMI:WinEventLog:Application	-	20120725210016.000000 Category=10 CategoryString=Online Defragmentation EventCode=700 EventIdentifier=700
15	7/25/12 8:00:27.000 PM	WMI:WinEventLog:Application	WMI:WinEventLog:Application		20120725200027.000000 Category=10 CategoryString=Online Defragmentation EventCode=700 EventIdentifier=700

	System	Vulnerabilities	Exploitable	
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A1 – Injection	23	142	65%	
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A7 - Missing Function Level Access	7	16	56%	
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A10 - Unvalidated Redirects and For	0	0	0%	

Web Intrusio Web Stats NNM Detected Web Error Apache Web Error IIS Web Error

b App Result Indica

Last Updated: 3 minutes ago

701 EventType=3 Logfile=Application RecordNumber=84580 700 EventType=3 Logfile=Application RecordNumber=84579 700 EventType=3 Logfile=Application RecordNumber=84577 01 EventType=3 Logfile=Application RecordNumber=84578 =3 Logfile=Application RecordNumber=84576 SourceName= 701 EventType=3 Logfile=Application RecordNumber=84575 00 EventType=3 Logfile=Application RecordNumber=84574 701 EventType=3 Logfile=Application RecordNumber=84573 00 EventType=3 Logfile=Application RecordNumber=84572 Type=3 Logfile=Application RecordNumber=84571 SourceN 701 EventType=3 Logfile=Application RecordNumber=84570 700 EventType=3 Logfile=Application RecordNumber=84569 01 EventType=3 Logfile=Application RecordNumber=84568 00 EventType=3 Logfile=Application RecordNumber=84567 700 EventType=3 Logfile=Application RecordNumber=84565

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Overflow	
Error Handling	3
XSS	
Critical Web Vulns	1
Web Threatlist	
Long Term Web Error Activity	
NNM Detected Web Access	
Apache Web Access	
IIS Web Access	

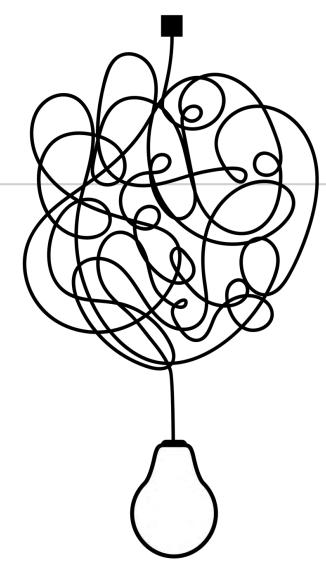
### Every min 62K record disclosed Record per minute disclosed

Plugin ID Name Sev   1000729 KenServer - List brash dumpa. In   1000730 KenServer - List brash dumpa. In   1000731 KenServer - List bonded NIC groups In   1000732 KenServer - The hosts.deny file blocks access by default In   1000733 KenServer - The hosts.deny file blocks access by default In   1000740 KenServer - Identify a network interface to be used for storage access In   1000741 KenServer - Use a static IP on the storage network interface In   1000742 KenServer - Use a static IP on the storage network interface In   1000743 KenServer - Use a static IP on the storage network interface In   1000744 KenServer - Use a static IP on the management network interface In   1000745 KenServer - Nisaliow unplug detection on the storage network interface In   1000744 KenServer - Nisalio P on the management network interface In   1000745 KenServer - Disable promiscuous mode on all network interfaces In   1000745 KenServer - Enable QoS on all VM guests In   1000752 KenServer - High availability is enabled In	erity To
1000739   KenServer - List bonded NIC groups     1000739   KenServer - The hosts.deny file blocks access by default     1000739   KenServer - The hosts.deny file blocks access to the local network     1000739   KenServer - The hosts.allow file limits access to the local network     1000740   KenServer - Lidentify a network interface to be used for storage access     1000741   KenServer - Use a static IP on the storage network interface     1000742   KenServer - Disallow unplug detection on the storage network interface     1000743   KenServer - All network interfaces are operating in full-duplex mode     1000744   KenServer - All network interfaces are operating in full-duplex mode     1000745   KenServer - Enable CoS on all VM guests     1000746   KenServer - Host is enabled	High
1000738   XerServer - The hosts.deny file blocks access by default     1000739   XerServer - The hosts.allow file limits access to the local network     1000740   XerServer - Identify a network interface to be used for storage access     1000741   XerServer - Identify a network interface to be used for storage access     1000742   XerServer - Disallow unplug detection on the storage network interface     1000743   XerServer - Disallow unplug detection on the storage network interface     1000744   XerServer - Disallow unplug detection on the storage network interface     1000745   XerServer - Disallow unplug detection on the storage network interface     1000746   XerServer - Disallow unplug detection on the storage network interfaces     1000745   XerServer - Disable promiscuous mode on all network interfaces     1000746   XerServer - Disable promiscuous mode on all network interfaces     1000745   XerServer - Enable QoS on all VM guests     1000752   XerServer - Host is enabled	
1000739 XenServer - The hosts allow file limits access to the local network   1000740 XenServer - Identify a network interface to be used for storage access   1000741 XenServer - Use a static IP on the storage network interface   1000742 XenServer - Disaliow unplug detection on the storage network interface   1000743 XenServer - All network interfaces are operating in full-duplex mode   1000744 XenServer - Disable promiscuous mode on all network interfaces   1000745 XenServer - Disable promiscuous mode on all network interfaces   1000746 XenServer - Host is enabled	High
1000740   XenServer - Identify a network interface to be used for storage access     1000741   XenServer - Use a static IP on the storage network interface     1000742   XenServer - Disallow unplug detection on the storage network interface     1000743   XenServer - Use a static IP on the management network interface     1000744   XenServer - Use a static IP on the management network interface     1000745   XenServer - All network interfaces are operating in full-duplex mode     1000745   XenServer - Disable promiscuous mode on all network interfaces     1000746   XenServer - Host is enabled	High
1000741   XenServer - Use a static IP on the storage network interface     1000742   XenServer - Disallow unplug detection on the storage network interface     1000743   XenServer - Use a static IP on the management network interface     1000744   XenServer - All network interfaces are operating in full-duplex mode     1000745   XenServer - Disable promiscuous mode on all network interfaces     1000746   XenServer - Enable QoS on all VM guests     1000752   XenServer - Host is enabled	High
1000742   XenServer - Disallow unplug detection on the storage network interface     1000743   XenServer - Use a static IP on the management network interface     1000744   XenServer - All network interfaces are operating in full-duplex mode     1000745   XenServer - Disable promiscuous mode on all network interfaces     1000746   XenServer - Disable promiscuous mode on all network interfaces     1000745   XenServer - Disable promiscuous mode on all network interfaces     1000746   XenServer - Enable QoS on all VM guests     1000752   XenServer - Host is enabled	High
1000743   XenServer - Use a static IP on the management network interfaces     1000744   XenServer - All network interfaces are operating in full-duplex mode     1000745   XenServer - Disable promiscuous mode on all network interfaces     1000746   XenServer - Enable QoS on all VM guests     1000752   XenServer - Host is enabled	High
1000744   XenServer - All network interfaces are operating in full-duplex mode     1000745   XenServer - Disable promiscuous mode on all network interfaces     1000746   XenServer - Enable QoS on all VM guests     1000752   XenServer - Host is enabled	High
1000745 XenServer - Disable promiscuous mode on all network interfaces   1000746 XenServer - Enable QoS on all VM guests   1000752 XenServer - Host is enabled	High
1000746 XerServer - Enable OpS on all VM guests 1000752 XerServer - Host is enabled	High
1000752 XenServer - Host is enabled	High
	High
1000753 XenServer - High availability is enabled	High
	High
1000755 XenServer - Snapshots are not present	High
nServer - Best Practice Indicators	
Promiscuous Crash Dumps Disabled	Hasta
Contigure NTP Certificate NT	

Top 10 Products (22) View All				
Product	Projects	Libraries	Vulnerable Libraries	Licenses
Struts	29	127	High: 8 Medium: 2	18
NewProj	5	24	High: 5 Medium: 4	14
CRM_Prod	4	81	High: 10 Medium: 1	19
KSA	3	42	High: 8 Medium: 1	8
Demo Product	2	328	High: 13 Medium: 13	31
My Product	2.	36	High: 2 Medium: 3	9
lenkins Test	2	10	No Vulnerabilities	1
ERP-1.0_Repo	1	318	High: 12 Medium: 13	29
ERP-1.0_Build	1	318	High: 12 Medium: 13	29
EUA_2019	1	39	High: 8 Medium: 1	9

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## Too many vendors Too many alerts & dashboards Too much confusion & overwhelm Not enough skilled expertise

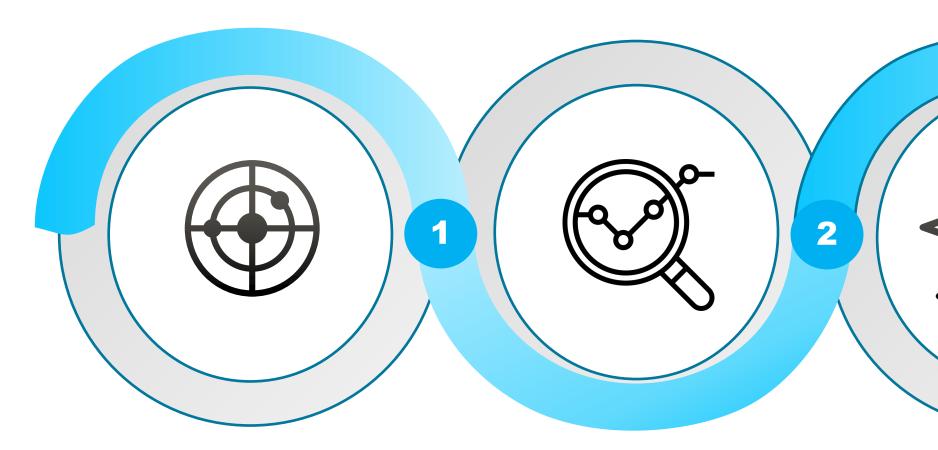
## **Our Solution**

## Single view and report Report and vulnerabilities explained by experts Consultancy from recognized cyber experts

Training and consultancy

## A validated methodology across our services

**ASSESS ANALYZE** 

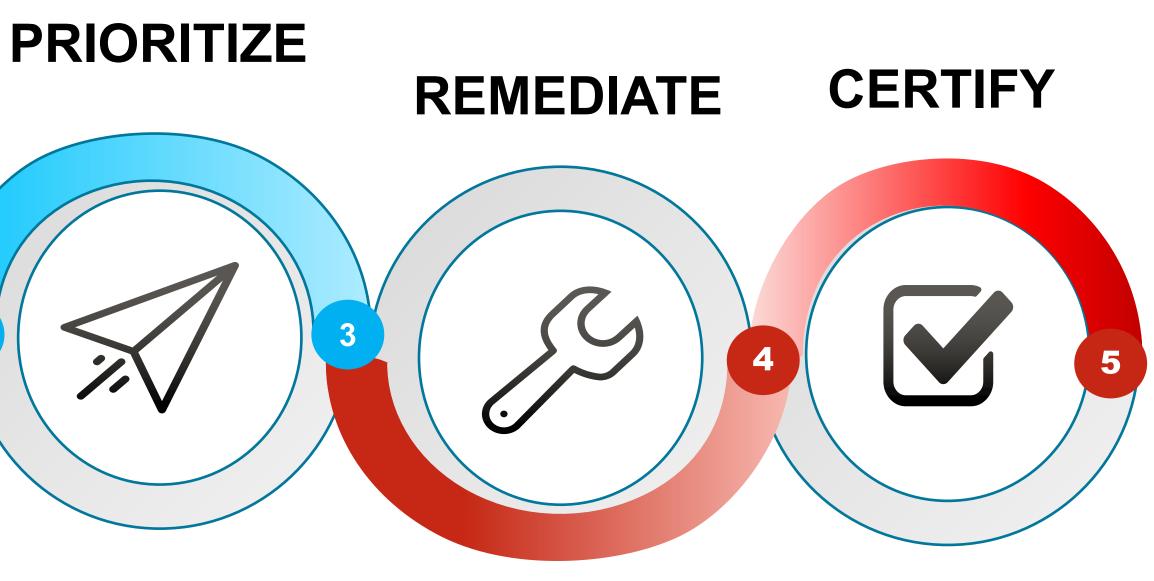


Analyze the posture & highlight the problems

Recommend remediation path

Agree Scope, Prioritize

## **Your Protection is Our Success** OUR METHOD: AAP-RC



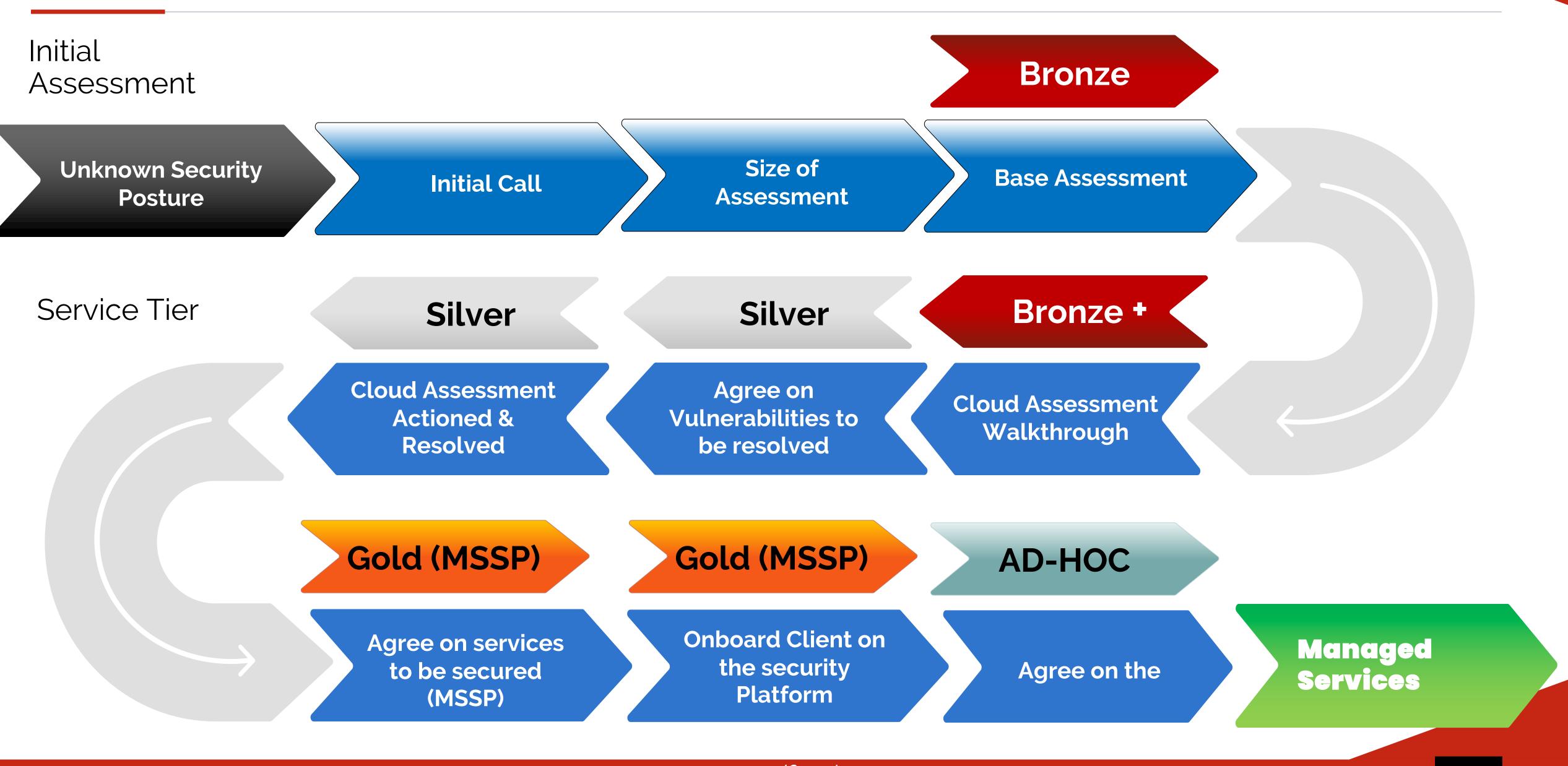
Execute the agreed remediation steps

Review & Certify





## **Customer Journey – Cloud Security Assessments**





## **Our Other Services**

We believe in an all rounded set of services built on the need of our clients over the years and recognized by the Cloud Security Alliance.

What differentiates our company from other consultancies is that we do what we love and are customer focused.

Our company goes the extra mile in order to deliver solutions that are fit for purpose, effective and costeffective for your organization's risks appetite.

We offer a range of products within cybersecurity.



## VCISO/INTERIM CISO



**CYBER SECURITY STRATEGY** 



## **CYBER SECURITY CONSULTANCY**











## When you are Cybersafe We are **Cyberhappy**

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#### WHEN YOU ARE CYBERSAFE WE ARE CYBERHAPPY



