

## THE PROBLEM

- Security of online assets such as websites and cloud instances, depends also on their Infrastructure supply-chain: Web, Cloud and DNS infrastructures that the online assets and other connected assets rely on to operate
- Classical security solutions focus on security issues in the customer's assets. What about connected assets and the infrastructures that are outside the organization?
- Modern organizations are connected to thousands of external assets through dozens of connection types
- Organizations do not have to tools to map their connections, to monitor them, to detect risky changes, to analyze their effect on the organization's assets and to respond quickly

## **BIG PROBLEM**

Example: 40 banks statistics

97.5%

are connected to vulnerable assets in a risky manner

have at least one asset that can be taken over

100%

suffer from additional security vulnerabilities (not connection-related)

### Cross-sector problem



Media



Telecom Healthcare



Retail



Insurance



**Energy** 



**Airlines** 



Security



Government Automotive



## THE DAMAGE

Websites, pages, cloud instances, DNS and mail server taken over

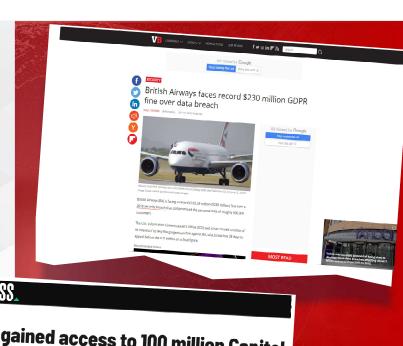
Loss of trust

Access to internal networks and data

**Public** embarrassment

Stolen information

Tens of millions in fines



### BUSINESS.

A hacker gained access to 100 million Capital One credit card applications and accounts

By Rob McLean, CNN Business Updated 2117 GMT (0517 HKT) July 30, 2019

> Netflix, Ford, TD Bank Data Exposed by Open Amazon S3 Buckets

By Sergiu Gatlan





### THE SOLUTION

Security monitoring of online assets and their infrastructure supply-chain:

Detect and react to security issues that affect the organization's security, regardless of their source

- Map the organization's assets and external connected assets.
- Identify and classify Web, Cloud and DNS infrastructures for each of them
- Build connections graph: assets and infrastructures as nodes and connections as different types of edges
- Detect and react to security issues of the graph's assets, and create and handle new security issues in connected assets, based on the issue type and the connection type. This is a recursive process

## **HOW DOES IT WORK?**

Distributed system simulates the modern attacker in three continuous loops

# **Discovery**

Discovery units search for new assets of the organization and identify their connections to external assets. Insideout and reverse discovery techniques. 2

#### **Monitoring**

Dozens of autonomous monitoring units, each inspects some types of assets. Detect risky changes. Web, Cloud, DNS, PKI monitoring. 3

#### Security

Brain units analyze internal and external changes.
Generate detailed alerts with remediation instructions.
Apply Active Protection when possible.
Send analyzed data to the discovery units to go deeper

SaaS solution. No installation. Easy on-boarding. Fast time to value.

**Trusted by Global 500 companies** 

## **EXAMPLES**

### Web



High (CVSS 8) www.YYYYYYY.com

#### CORS connection to vulnerable domain

#### ummary

The domain <a href="https://www.XYXYXYX.com">www.XYXYXYXX.com</a> to cross-site access its content via Cross-Origin Resource Sharing (CORS), but the domain <a href="https://www.XXXXXX.com">www.XXXXXX.com</a> is vulnerable to client-side code execution attack, and hence, might be abused to cross-site access the content of the domain.

host	vulnerabilities ↓↑ ↓↑	dependencies	dependencies type	hosťs risk rank
mt3wWl29oSRB.com	1	J9IZTRRoXBsc.com	Hyperlink	100
zbuTSC3ubAk2.com	4	x7wCKwq4DS5g.com, txPocPO7kUVJ.com	Hyperlink	100
awxujqLIRezO.com	4	JXMJvxhurRHV.com, eGPpvtVtLz5s.com	Hyperlink, Script inclusion and Iframe inclusion	98.12
wScoSs0QAcbl.com	2	EAjNJZxIIWUZ.com	Hyperlink	98.12
6x0au6TVK910.com	6	2i0SXhIOGRsz.com, UlsCeKRgpGzz.com, TbTvIDGaA0sR.com and 22 more domains	Hyperlink	92.29
eBpgkd4r34Aw.com	2	TbTvIDGaA0sR.com, 25r4U6pmBmxc.com, uDI9RKncOxtM.com and 11	Script inclusion	76.88

### Cloud

High (CVSS 10) www.XXXXXXXX.com

Domain operates over critically misconfigured S3 bucket

#### summary

The domain www.XXXXXXX.com operates over S3 bucket that suffers from critical misconfiguration issue: writing to the bucket is publicly permitted.

High (CVSS 9) wv

#### Dangerous script inclusion connection

#### summar

Total External Cloud Assets 912 *823 more than last update		Total Tests in Cloud category  26  *6 more than last update		ry Tota	Total tested Clouds (internal & external 1223 \$\frac{1097}{1097}\$ more than last update			Tests without perfect grade 374 *374 more than last update			
		Cres	ite filtered pdf sub report		Send report via er Include also perfe		s (report m	ight be extremely lon	g)		
External Cloud Asse	ts										^
Copy CSV remove	all selected	Select all 1	litered						Search:	host's	cloud
host	vulnera	bilities 	dependencies		dependencies type		ovider	service	description	risk rank	risk rank
Y7dcB8cuZINA.com	1		93NmJ1LJxmuD.com		CNAME record	All	WS	\$3	Amazon Storage cloud	100	100
Y7dcB8cuZlNA.com	1		93NmJ1LJxmuD.com		CNAME record	Ni	WS.	CLOUDFRONT	Amazon CDN cloud		
c1srM9Was5MD.com	1		Db55ktbWrHxn.com		CNAME record	Az	ture	Cloudapp	Azure Cloud services		
tUHrNtmj1cHT.com	4		0UJO2YVwippe.com		Hyperlink	All	N/S	\$3	Amazon Storage cloud	90.5	
zuWX2wubqBGH.com	1		93NmJ1LJxmuD.com		Script inclusion	Ali	NS	\$3	Amazon Storage cloud	50	50

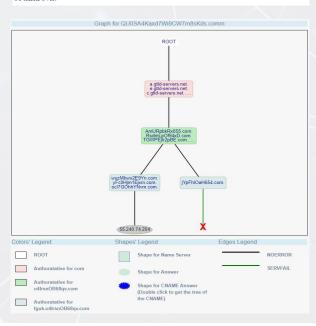
### DNS

High (CVSS 10) www.YYYYYYY.com

Authoritative nameserver is critically vulnerable

summary

The domain <a href="https://www.YYYYYYY.com">www.YYYYYYYY.com</a> uses the domain <a href="https://www.xxxxxxxxxx.com">ns.xxxxxxxxxx.com</a> as one of its authoritative nameservers, but the domain <a href="https://www.ns.xxxxxxxx.com">ns.xxxxxxxxxx.com</a> is critically vulnerable and could be taken over.



## **TRY US**

Risk-free, no-installation, no-overhead and no-cost one-day POC "Stop on first findings" mode

We only need:

- Contact for critical alerts
- Date & time for POC summary meeting

### You get:

- Value
- Ease of use

