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5 June 2019

Security Best Practices

Edgardo Yap

Project Director, Professional Services, APAC, Accuity



accuity.com

Fircosoft

Bankers
ALMANAC

Today's Discussion Topics



Risks & impacts of security vulnerabilities and threats to businesses



How is Accuity handling application security risks in its own business?



Do you know in which areas security threats reside in your business?



How security improvements are now embedded into the Accuity SDLC



Impacts of Accuity “zero-tolerance” on our product development



Engaging Accuity Professional Services to discuss your upgrade options



Question & Answer

Lets start with a little quiz...

What does C.I.A mean in the world of Information Security?

- A Confidentiality, Integrity, Availability
- B Complexity, Integrity, Authentication
- C Confidentiality, Impact, Availability
- D None of the above

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What is NOT described as an 'information asset'?

- A Laptop
- B Database Server
- C Receptionist
- D Microsoft Office
- E All of the Above
- F None of the above

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Which of these characteristics create the best password policy?

- A Passwords with 8 characters or more
- B Passwords with Alpha-numeric characters
- C Passwords with special characters
- D All of the above
- E None of the above

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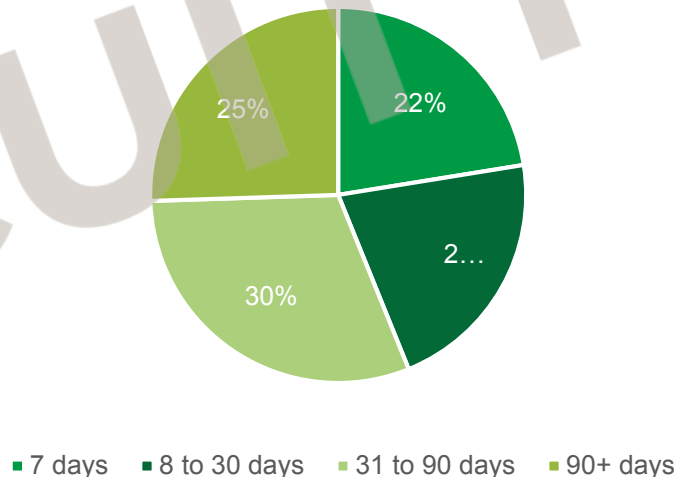
Risks & impacts of security vulnerabilities and threats to businesses

Some context...

- 17,000+ new vulnerabilities in 2018
- Approximately 47 new vulnerabilities per day
- 2018 saw a 23% increase compared to 2017
- 20% of Application Vulnerabilities are High or Critical risk
- Average of 67 days to close a vulnerability

Sources: edgescan Vulnerability statistics report
www.imperva.com – State of Web Application Vulnerabilities

Time to Fix Application Vulnerabilities



Risks & impacts of security vulnerabilities and threats to businesses

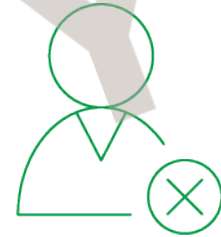


Serious commercial impact in the event of a security breach to both us as an organisation but equally to our customers.



Legal and Compliance breaches can end up in lawsuits and fines.

Under the GDPR laws, The CNIL's restricted committee imposed a financial penalty of 50 Million euros against GOOGLE LLC.



Damage to reputation can be terminal that could take many years to recover from and in some cases never.

Typically, 60% of Small Businesses will fold within 6 months of a Cyber Attack.

Risks & impacts of security vulnerabilities and threats to businesses

Top 10 Breaches in 2018

#	Breaches	People Affected	Disclosed
1	Aadhaar	1,000,000,000	January 2018
2	Starwood-Marriot	500,000,000	September 2018
3	Exactis	340,000,000	June 2018
4	Under Armour - MyFitnessPal	150,000,000	February 2018
5	Quora	100,000,000	December 2018
6	MyHeritage	92,000,000	June 2018
7	Facebook	87,000,000	September 2018
8	Elasticsearch	82,000,000	November 2018
9	Newegg	50,000,000	September 2018
10	Panera	37,000,000	April 2018

Sources: <https://blog.avast.com/biggest-data-breaches>

Some of the recent data breaches from 2018 and 2019



Stolen data included personal and financial details of over 380k British Airways customers.



A breach where personal info (photographs, national ID numbers, phone numbers, addresses, postal codes, and email addresses) of 1.5 billion Indian citizens were exposed.



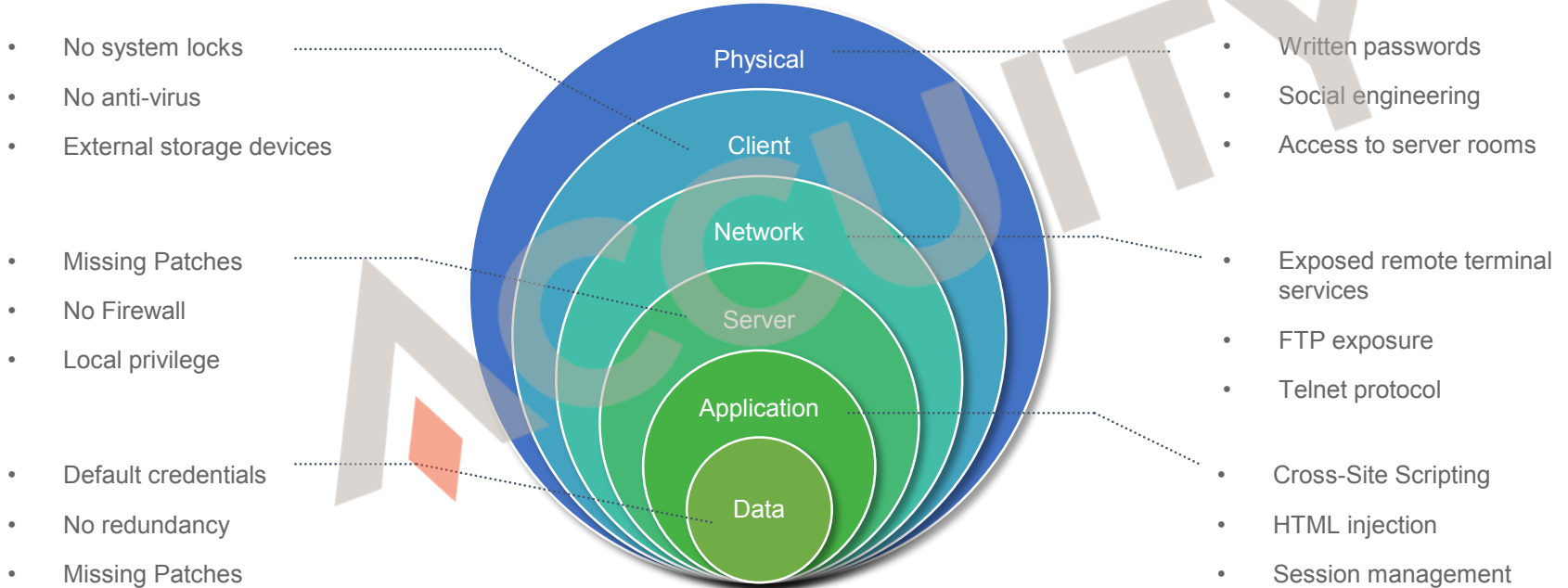
540 million Facebook users exposed in breach announced in 2019 where user records were publicly exposed in two app datasets that were digitally stored in two Amazon Simple Storage Service (S3) storage buckets.



DOW JONES

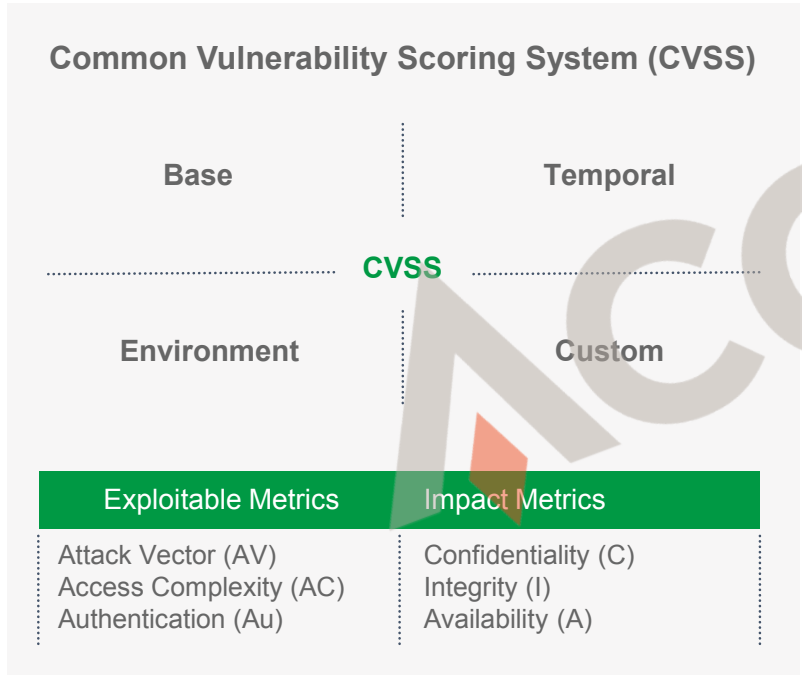
An independent researcher, discovered that an AWS hosted Elasticsearch database exposed the records including Dow Jones' Watchlist database, which companies use as part of their risk and compliance efforts.

Do you know in which areas security threats reside in your business?



How you can help improve security in your business systems

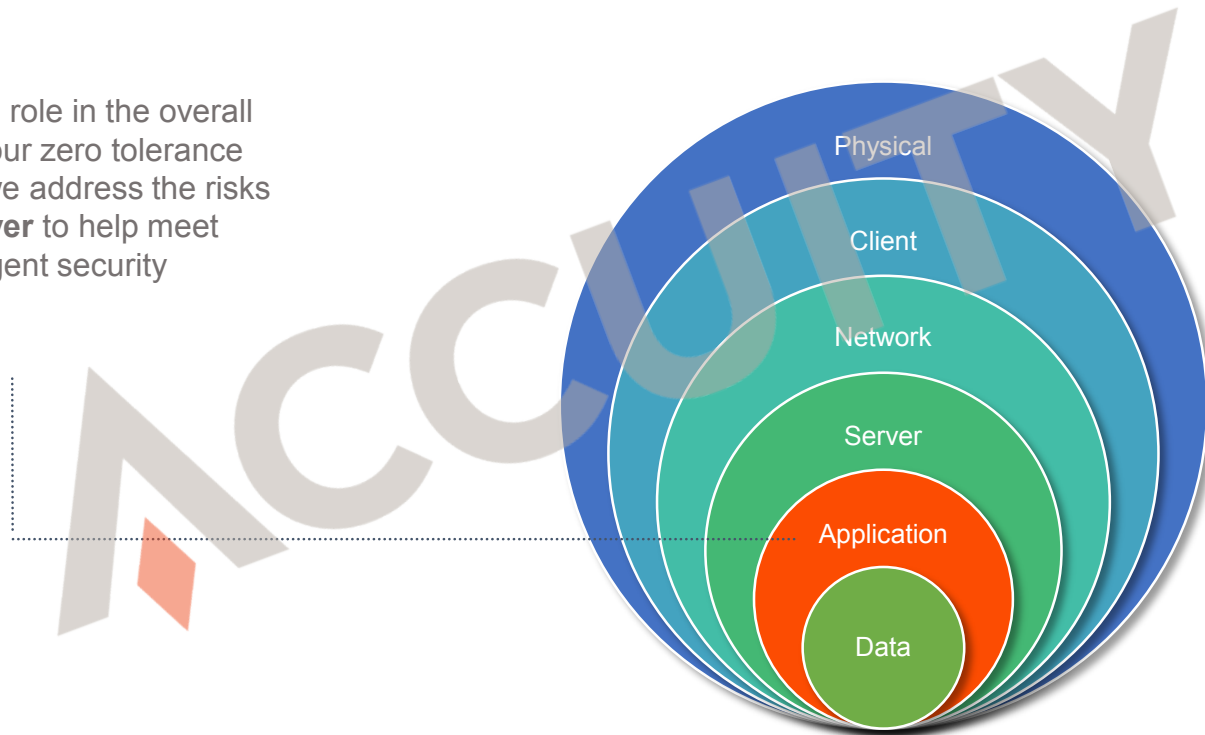
...using risk based approach to prioritize vulnerability resolution.



Vulnerabilities	Score	Cost to resolve
Missing Patches	9.6	30,000.00
No redundancy	9	300,000.00
No Firewall	8.5	150,000.00
Default credentials	8	50,000.00
No anti-virus	7.8	275,000.00
Exposed remote terminal services	7.4	80,000.00
Access to server rooms	6.2	425,000.00
External storage devices	5	120,000.00
No system locks	4.8	-
Local privilege escalation	4	5,000.00

How you can help improve security in your business systems

Accuity plays a critical role in the overall security framework- our zero tolerance initiative means that we address the risks in the **Application layer** to help meet your institution's stringent security framework objectives



How is Accuity handling application security risks in its own business?

Our Focus

- 1 We aggressively address vulnerabilities across our portfolio of products utilising industry recognised processes and tools to minimise security and privacy risks for our customers.
- 2 We continue to significantly invest in our security programme, looking at areas for enhancement in technology, process and skills.
- 3 We are actively developing and enhancing our scanning process using static code analysis, web application testing, penetration testing and open source scanning.
- 4 We actively review and implement tailor made security curriculums for all our staff to further enhance our capabilities to deal with security related issues.

How is Accuity handling application security risks?

Our Approach



We have taken a **two staged** proactive approach to remediate security vulnerabilities in all of our products including expanding our finding capabilities and plans to progress **fixes**.



We actively **track** vulnerabilities within our products and take a **risk based approach** to progressing the remediation work.



We have a **cadence** of more frequent security updates and releases with emphasis for our customers to **upgrade** on a more frequent basis

Security improvements are now embedded into the Accuity SDLC

Planning

Feedback from internal security team

Maintain

Dynamic Scans
Security training

Develop

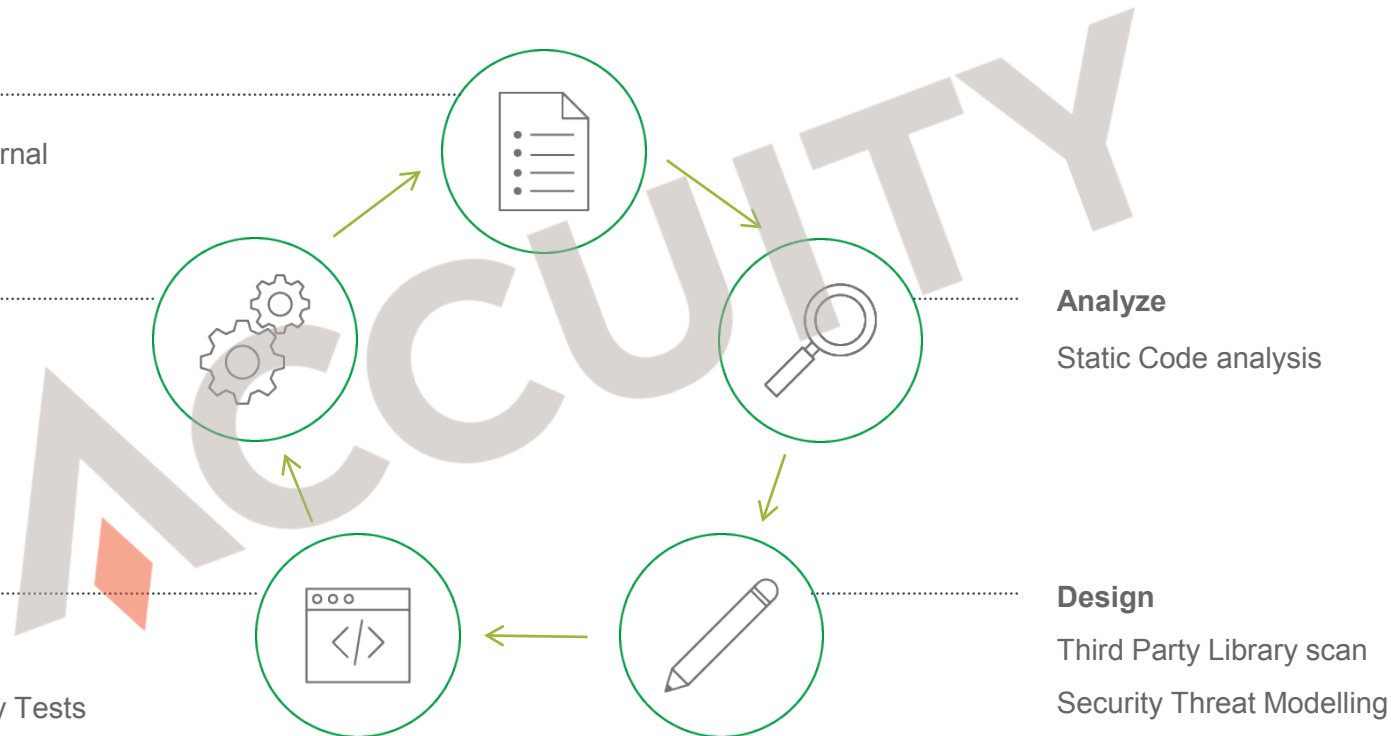
Code reviews
Third Party Security Tests

Analyze

Static Code analysis

Design

Third Party Library scan
Security Threat Modelling



Impacts of Accuity 'zero-tolerance' on our product development



More Secure

More application vulnerabilities will be resolved for the benefit of our customers



Better Releases

Products with stronger security enhancements lead to best value for clients on each release



Enhancements

With vulnerabilities being resolved, there will be opportunity to consider more value add enhancements



Confidence

Products seen to add great value and security inspire even greater confidence with our clients

The Accuity commitment to our clients

1

We are committed to ensuring that your information is secure and protected. We use a variety of administrative, physical and technical security measures intended to safeguard your personal information.

2

We are committed to work with our customers in order to assess and progress any security related issues or otherwise aligned with our InfoSec policies and product roadmap deliveries.

3

We have a strong software development lifecycle process however we are committed to review the process on an ongoing basis in order to continuously improve our abilities to deliver secure products to our customers.

Engaging Accuity Professional Services to discuss your upgrade options

3 options to reach out to Professional Services Group to scope out your upgrade initiatives:

1. Contact your Account Manager
2. Contact your Professional Services Consultant
3. Contact Support:
 - support@accuity.com – For **Firco Compliance Link** products
 - support@fircosoft.com – For **Firco Enterprise** products

Things to prepare prior to your discussion with Professional Services Group:

1. Existing Firco solution/modules and versions currently utilised
2. Volumes of business under discussion - such as no. of accounts/transactions
3. Existing services setup/configuration
4. Existing architecture/technology stack set up (versions etc.)

Thank you for your attention

ACCUITY

Take a break

The Summit will resume in 30min.

Accuity

