

Unlocking Cybersecurity: What Business Analysis Professionals Need to Know



About International Institute of Business Analysis

International Institute of Business Analysis[™] (IIBA®) is a professional association dedicated to supporting business analysis professionals to deliver better business outcomes. IIBA connects almost 30,000 Members, over 100 Chapters, and more than 500 training, academic, and corporate partners around the world. As the global voice of the business analysis community, IIBA supports recognition of the profession, networking and community engagement, standards and resource development, and comprehensive certification programs.

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Connecting the Global Community





Meet Today's Speakers

Bindu comes with 15 years of experience in Business Analysis and is qualified from IIBA and BCS. Recognizing the need for Cybersecurity analysis, Bindu, proactively studied Security Management and since has become a keen advocate to make Cybersecurity inclusive within the mainstream business analysis.

She is part of the Cybersecurity Certification team authoring IIBA's Cybersecurity Certification curriculum and exam. Bindu also has taken this imperative message to several countries and delivering speeches and workshops at various Business Analysis and Cybersecurity conferences.

Bindu Channaveerappa





Meet Today's Speakers

Terry Baresh, CBAP, is a Principal Business Analyst leading teams of BAs in a cybersecurity organization, writing business cases, managing stakeholder expectations, performing enterprise business analysis, and providing support and recommendations to the Chief Information Security Officer and her team of cybersecurity experts.

Terry Baresh









BIG SCARY SLIDE¹

- ♂ Cybercrime has increased by 600% since the beginning of the global pandemic.
- Ransomware made history in 2020 contributing to the first reported death related to a cyber attack.
- If it were measured as a country, then cybercrime — which is predicted to inflict damages totaling \$6 trillion USD globally in 2021 — would be the world's third-largest economy after the U.S. and China.
- Solution State State

1. https://purplesec.us/recent-cyber-security-attacks/



How many passwords do you have?

TYPE YOUR ANSWER IN THE CHAT WINDOWS

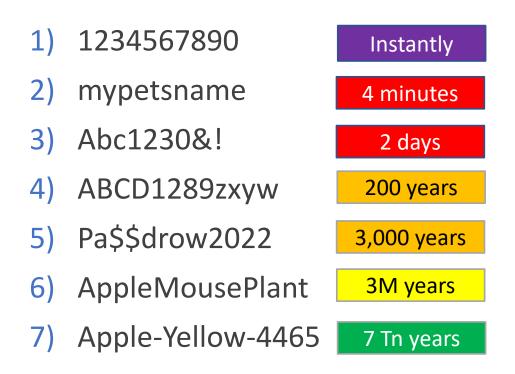
TIME IT TAKES A HACKER TO BRUTE FORCE YOUR PASSWORD IN 2022

Number of Characters	Numbers Only	Lowercase Letters	Upper and Lowercase Letters	Numbers, Upper and Lowercase Letters	Numbers, Upper and Lowercase Letters, Symbols
4	Instantly	Instantly	Instantly	Instantly	Instantly
5	Instantly	Instantly	Instantly	Instantly	Instantly
6	Instantly	Instantly	Instantly	Instantly	Instantly
7	Instantly	Instantly	2 secs	7 secs	31 secs
8	Instantly	Instantly	2 mins	7 mins	39 mins
9	Instantly	10 secs	1 hour	7 hours	2 days
10	Instantly	4 mins	3 days	3 weeks	5 months
11	Instantly	2 hours	5 months	3 years	34 years
12	2 secs	2 days	24 years	200 years	3k years
13	19 secs	2 months	1k years	12k years	202k years
14	3 mins	4 years	64k years	750k years	16m years
15	32 mins	100 years	3m years	46m years	1bn years
16	5 hours	3k years	173m years	3bn years	92bn years
17	2 days	69k years	9bn years	179bn years	7tn years
18	3 weeks	2m years	467bn years	11tn years	438tn years



> Learn about our methodology at hivesystems.io/password

What is your password scheme?



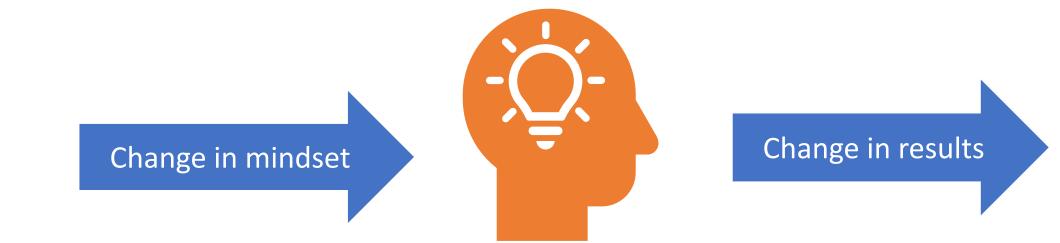


https://businesstech.co.za/news/it-services/572976/how-long-it-takes-hackers-to-crack-your-password-based-on-how-many-characters-it-has/

I-PERCEPTIONS

What is Cybersecurity?

TYPE IN YOUR DEFINITION IN THE CHAT







I-PERCEPTIONS and The Cyber $\mathsf{BA}^{ extsf{8}}$

23/09/2021

How do you protect your home?

TYPE IN YOUR DEFINITION IN THE CHAT



Is this bike parked 🗸

Is it locked 🗸 🗸

Is it the right lock 🗸







23/09/2021

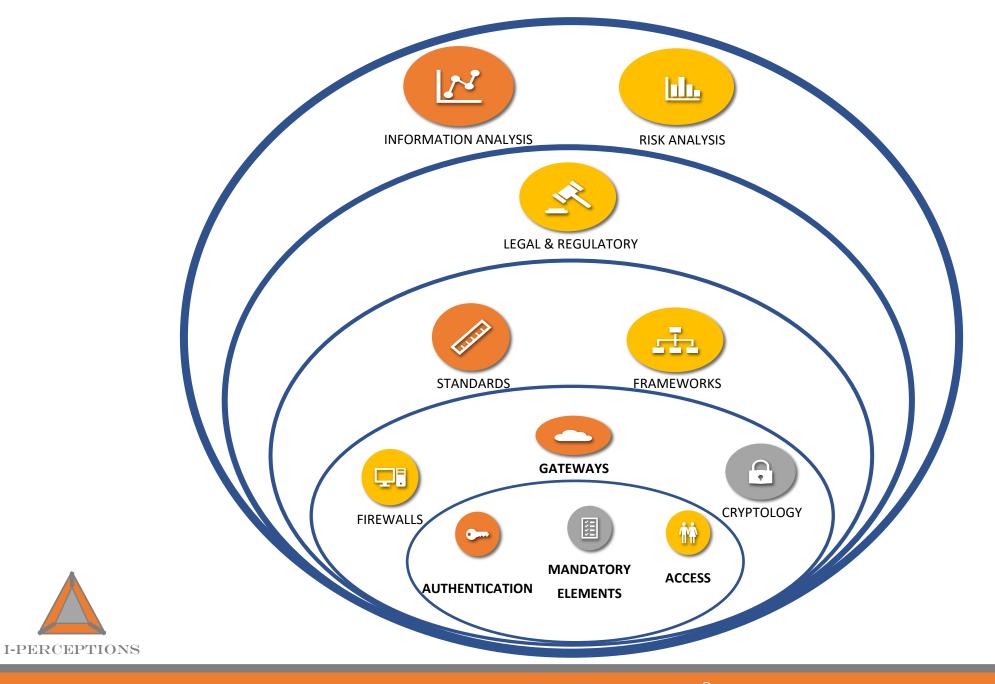




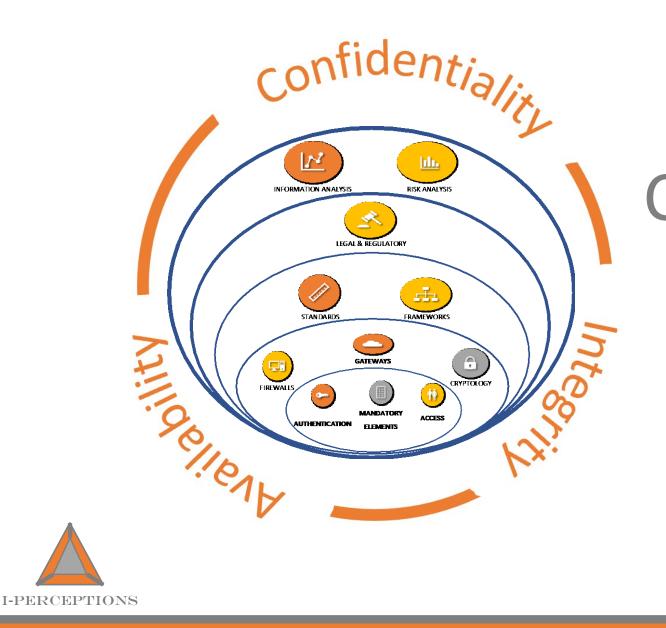


I-PERCEPTIONS and The Cyber $\mathsf{BA}^{ extsf{B}}$

23/09/2021







Cybersecurity is the protection of systems, processes, networks and data in cyberspace.

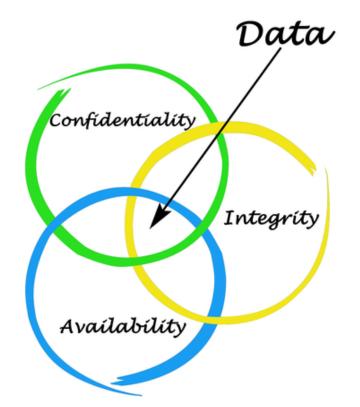


What is security posture?

What is cybersecurity?

Cybersecurity is the art of protecting networks, devices, and data from unauthorized access or criminal use and the practice of ensuring Confidentiality, Integrity, and Availability of information.*

The goal of cybersecurity is to protect internetworked systems from cyber-threats and known vulnerabilities.





*Cybersecurity and Infrastructure Security Agency (CISA), Dept of Homeland Security











Designing for resilience



How does risk management align with cybersecurity capabilities?







24/10/2022

BARESH CONSULTING, LLC



We don't know what we don't know!

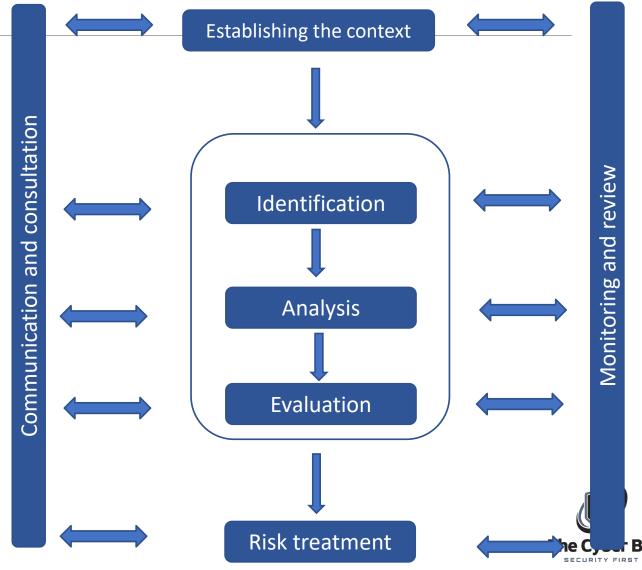


I-PERCEPTIONS

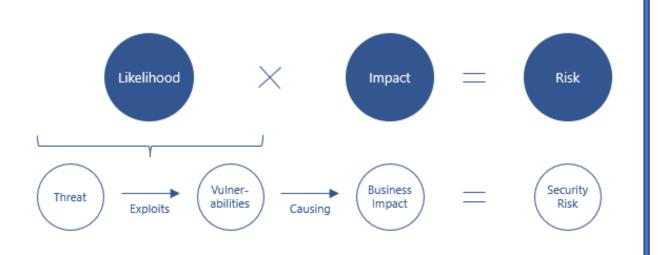
Cybersecurity Risk Management Process -

ISO 31000 defines a general approach to enterprise risk management, involving

- Communication and consultation
- Establishing the context
- Risk assessment
- Solutions are designed to address specific threat
 - Risk identification
 - Risk analysis
 - Risk evaluate
- Risk treatment
- Monitoring and Review









Cyber Risk = Business Risk





I-PERCEPTIONS

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What roles or activities can BAs play in making your business more secure against cyber threats?

BA's perform risk analysis by...

- Implementing risk management frameworks
- Identifying assets and configurations
- Tracking vulnerabilities
- Performing risk assessments
- Tracking exception cases
- Driving prioritization
- Categorizing mitigating controls



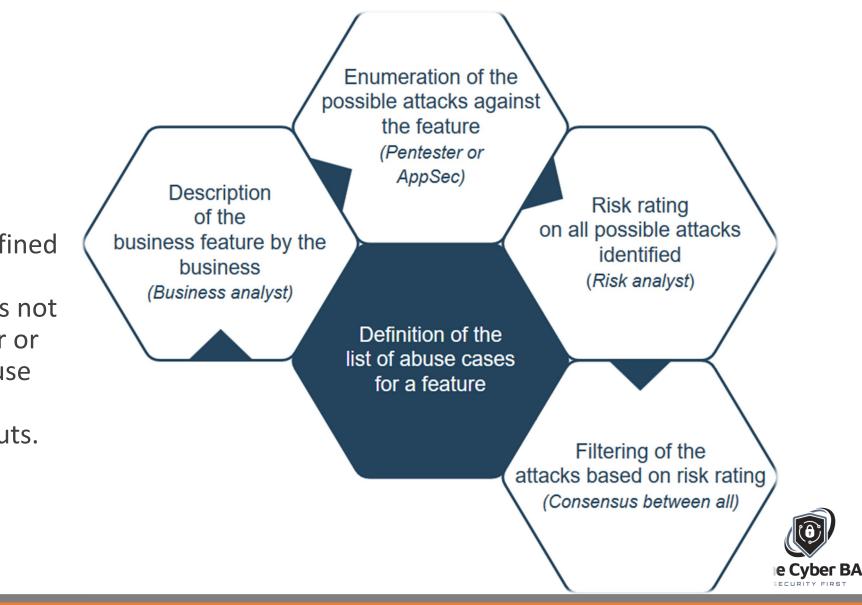




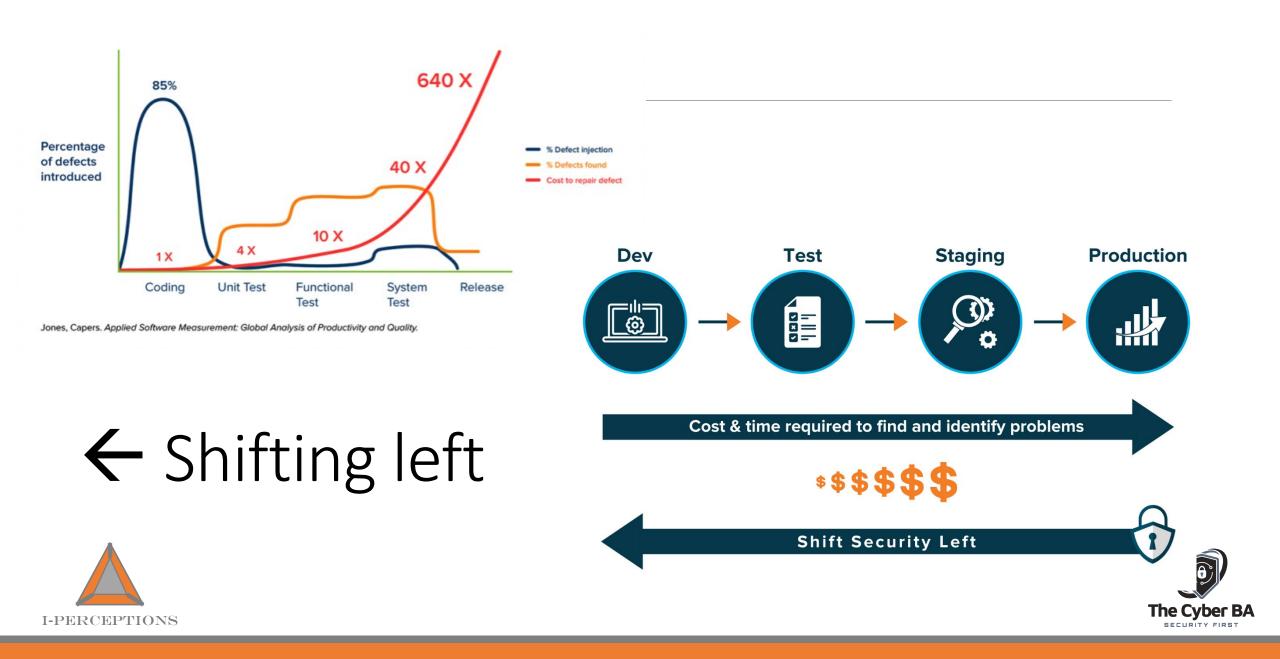
23/09/2021

Writing user stories for security

An abuse case can be defined as a way an attacker can exploit a feature that was not expected by the designer or allow an attacker to misuse the feature controls to redirect inputs and outputs.









Cybersecurity requirements

BAs can include cybersecurity requirements in...

- Initial Business Case
- Work Breakdown Structure (WBS)
- Concept and design drawings
- Permitting processes
- Project milestones
- Information security, privacy and compliance reviews
- Dev, Test, QA, Pre-prod environment designs
- Test plan

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Q&A

Resources

Useful resources – Cybersecurity/Risk

Org	Name of agency	URL
		https://www.iiba.org/certification/iiba-
		certifications/specialized-business-analysis-
IIBA CCA	IIBA Cybersecurity Certificate in Analysis	certifications/certificate-in-cybersecurity-analysis/
ENISA	European Union Agency for Cybersecurity	https://www.enisa.europa.eu/
GIAC	GIAC Certifications	https://www.giac.org/
CISA	Cybersecurity and Infrastructure Security Agency (CISA)	https://www.cisa.gov/
NIST	National Institute of Standards and Technology	https://www.nist.gov/cyberframework
NCSC	The National Cyber Security Centre	https://www.ncsc.gov.uk/
ISO	ISO/IEC 27001 Information Security Framework	https://www.iso.org/isoiec-27001-information-security.html
ISO	ISO 31000 Risk Management Standards	https://www.iso.org/iso-31000-risk-management.html
ASD	Australian Cyber Security Centre	https://www.asd.gov.au/cyber
SANS	SANS Institute	https://www.sans.org/
(ISC)^2	The International Information System Security Certification Consortium, or (ISC) ²	https://www.isc2.org/
ISACA	Information Systems Audit and Control Association [®] (nee)	https://www.isaca.org/
ISSA	Information Systems Security Association (ISSA)®	https://www.issa.org/
OWASP	The Open Web Application Security Project [®]	https://owasp.org/
ISF	Information Security Forum (ISF)	https://www.securityforum.org/
ICMCP	International Consortium of Minority Cyber Professionals	https://www.icmcp.org/
EWF	Executive Women's Forum	https://www.ewf-usa.com/
CSA	Cloud Security Alliance	https://cloudsecurityalliance.org/

I-PERCEPTIONS

The Cyber BA

SECURITY FIRST

Research and Reporting - Cybersecurity

ORG	Organization Name	URL
	The Center for Strategic and International	
CSIS	Studies	https://www.csis.org/
DBIR	Verizon Data Breach Information Report	https://enterprise.verizon.com/resources/reports/dbir/
		https://www.business.att.com/categories/cybersecurity-insights-
CIR	AT&T Cybersecurity Insights Report	report.html
	Center for Strategic Cyberspace & International	
CSCIS	Studies (CSCIS)	https://www.cybersecurityintelligence.com/
	Cybersecurity Ventures	https://cybersecurityventures.com/research/
		https://www.mckinsey.com/business-functions/mckinsey-
	McKinsey Insights	digital/mckinsey-technology/overview/cybersecurity
	Checkpoint Software Cybersecurity Report	
NTSC	2020	https://www.ntsc.org/assets/pdfs/cyber-security-report-2020.pdf
CISO		
MAG	CISO Magazine	https://cisomag.eccouncil.org/
	CPO Magazine	https://www.cpomagazine.com/



I-PERCEPTIONS

Cybersecurity Statistics for 2019

- The global cost of online crime is expected to reach \$6 trillion by 2021
- By 2021, the number of unfilled cybersecurity jobs is expected to balloon to 3.5 million
- Cybersecurity expenditures are expected to reach \$1 trillion by 2024
- IoT attacks were up by 600% in 2017
- A business falls victim to a ransomware attack every 13.275 seconds
- Just 38% of global organizations claim that they are equipped and able to handle a complex cyber attack
- \$2.4 million is the average cost of a malware attack in 2017
- 43% of cyber attacks are targeted at small businesses
- 95% of data breaches have cause attributed to human error



Info Source – Cyber Defence Magazine



<u>Certificate in Cybersecurity Analysis</u>

Certificate in Cybersecurity Analysis (IIBA[®]- CCA)

Discover an Enhanced Cybersecurity Certification Program

IIBA[®] and IEEE Computer Society have partnered to offer a robust learning and certification program on Cybersecurity Analysis.



Limited Time Offer

Take advantage of a limited time discount on IIBA's Cybersecurity Analysis certification program. Hurry, it's only available for Cybersecurity Awareness Month!*





Thank You

You can reach us on LinkedIn or email for any questions



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