

Are Your Cyber Security Walls Future Proof?

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Are Walls Really a Protection?













Are Walls Really a Protection?



Are Your Walls Secure?

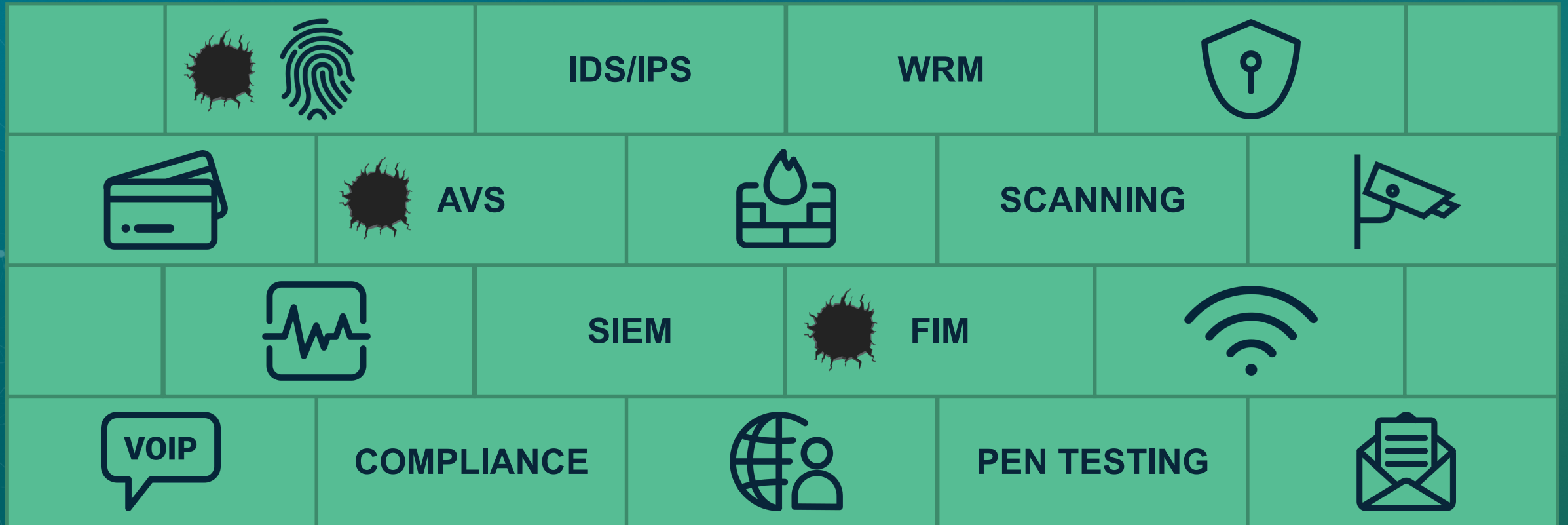


“A wall is the safeguard of simplicity” - Alice Meynell

		IDS/IPS	WRM		
	AVS		SCANNING		
		SIEM	FIM		
	COMPLIANCE		PEN TESTING		


















Are Your Walls Secure?

The wall is made of tested, repeatable known components.
A baseline that cybercriminals also know all too well.

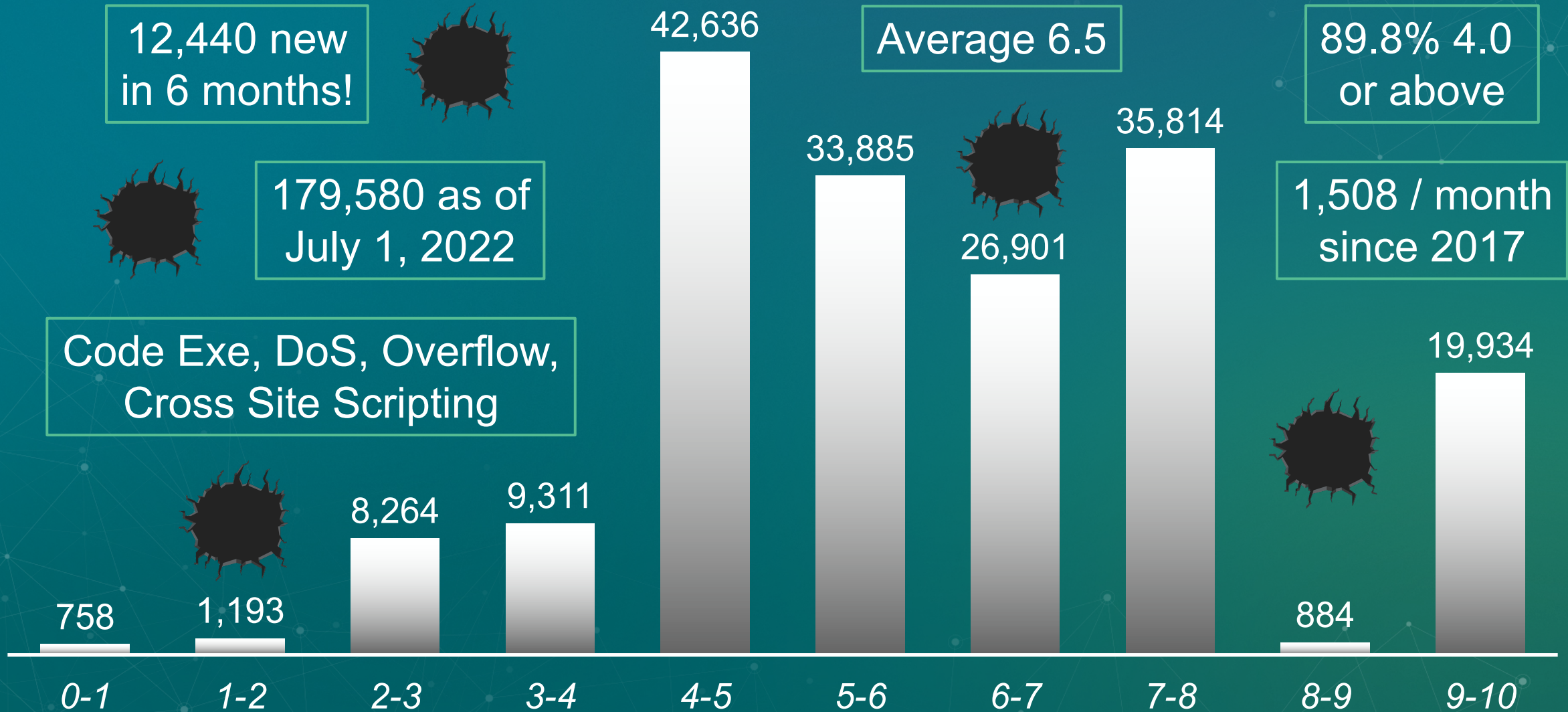


Are Your Walls Secure?

Putting vulnerabilities aside – when was the last time you checked End of Life systems (for example)?

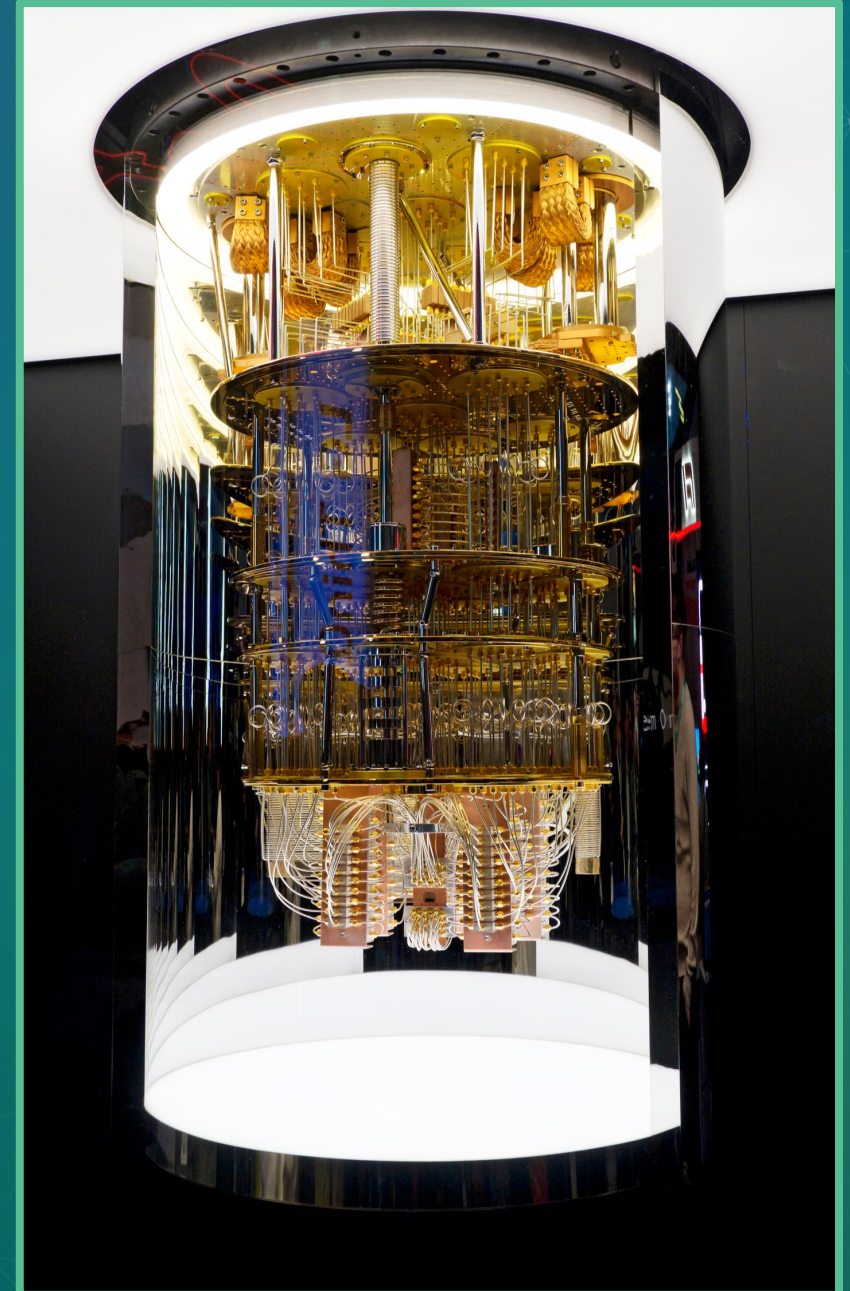
	 	IDS/IPS		WRM		
		AVS		SCANNING	 	
		SIEM		FIM	 	
 	COMPLIANCE		PEN TESTING			

Vulnerabilities Are The “Little Gates”



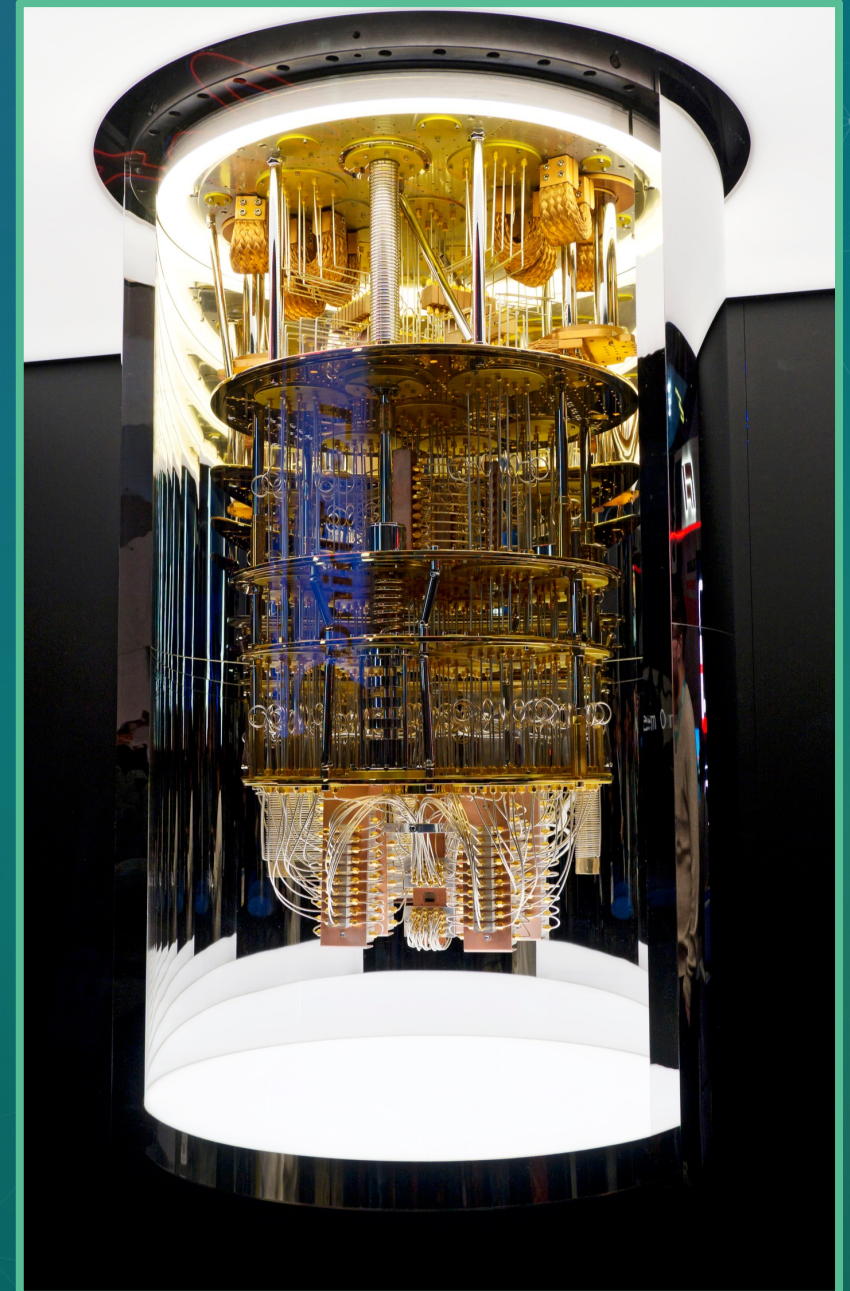
Battering Rams of the Future

- Quantum Computing – the (very) basics.
 - Terms like “qubits” and “superposition”.
 - Qubits (or quantum bit) are a unit of information in quantum computing.
 - Superposition - the ability of a quantum system to be in multiple states at the same time until it is measured.
- There are applications for which quantum computing provides exponential speedups and cybersecurity is one of them.
- So why do I refer to it as the “battering ram of the future”?



Battering Rams of the Future

- Find 1 item in a list 1 trillion lines long:
 - It would take a classic computer about 1 week to find the item.
 - A quantum computer about 1 second.
- If you could generate around 4-6,000 error free qubits it would take seconds to defeat public-key cryptography.
- To get 4-6,000 clean qubits would require around 1 million of today's noisier qubits.
- IBM and Google have set themselves on a path to achieve 1 million qubits by 2030.



The Way Forward



The Way Forward



“You can't defend. You can't prevent. The only thing you can do is detect and respond.”

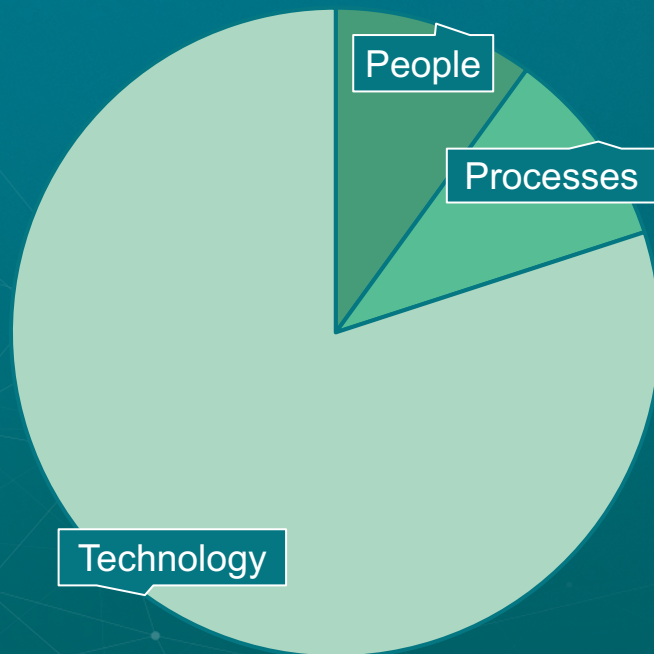
Bruce Schneier



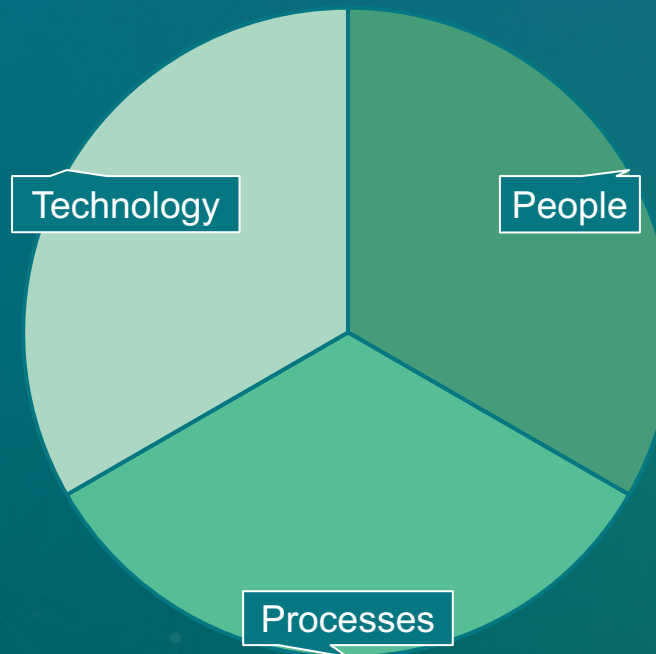
Ratio of People, Processes and Technology



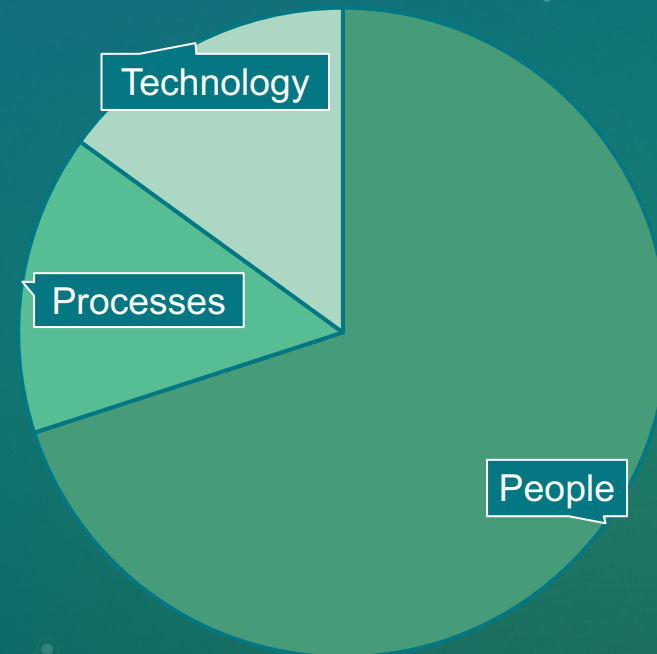
Protection (Walls)



Detection



Response



Everything Has An Attack Surface



From Zero Trust to Higher Detection

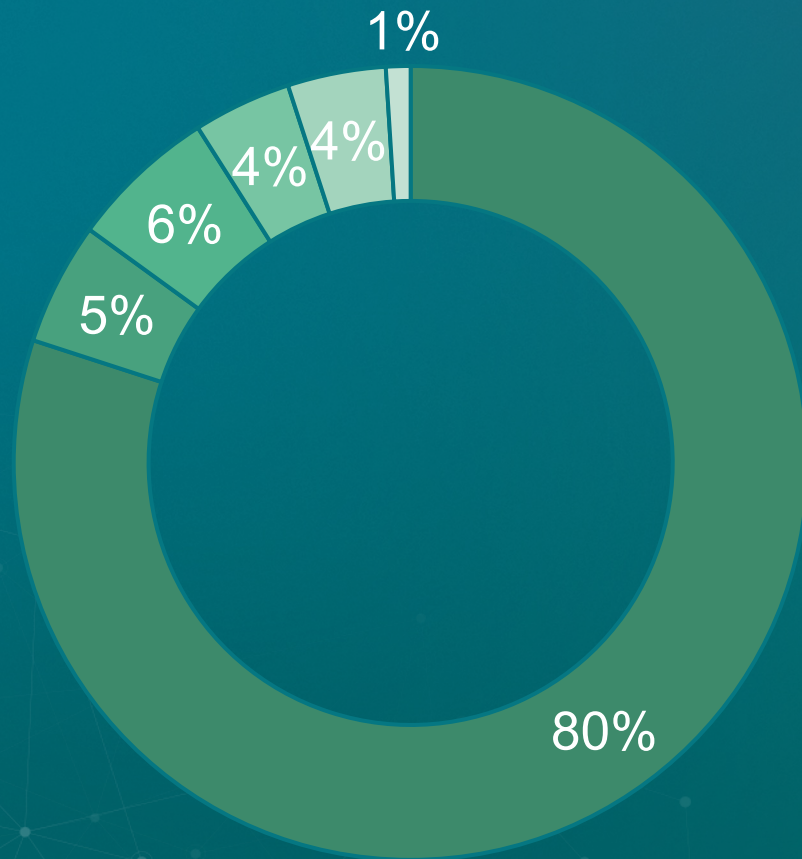
Gartner Top Eight Cybersecurity Predictions for 2022-23

“60% of organizations will embrace Zero Trust as a starting point for security by 2025. More than half will fail to realize the benefits.”



Rapid Detection and Swift Response

Time Taken to Identify Breaches



■ <30 ■ 31-60 ■ 61-120 ■ 121-365 ■ > 365 ■ Unknown



Rapid Detection and Swift Response



“It’s an emergency,
what do I do?”

Conclusion

- If an attacker is motivated a wall won't save you.
- Shore up your detection and response capabilities:
 - Invest in people and training.
 - Zero Trust Architecture combined with contextual trust algorithms.
 - Reducing your attack surfaces.
 - Reviewing and testing your incident processes.
- “You can't defend. You can't prevent. The only thing you can do is detect and respond.”

