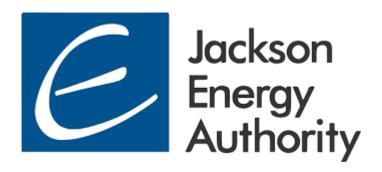


Incident Response back in the days... true story





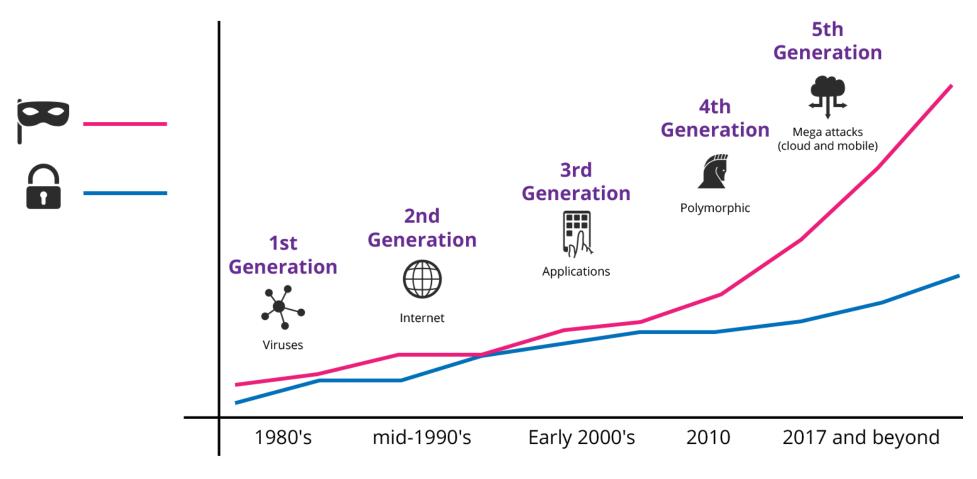
#### Joey Perry, CISM, CDPSE

IT Operations Manager jperry@jaxenergy.com





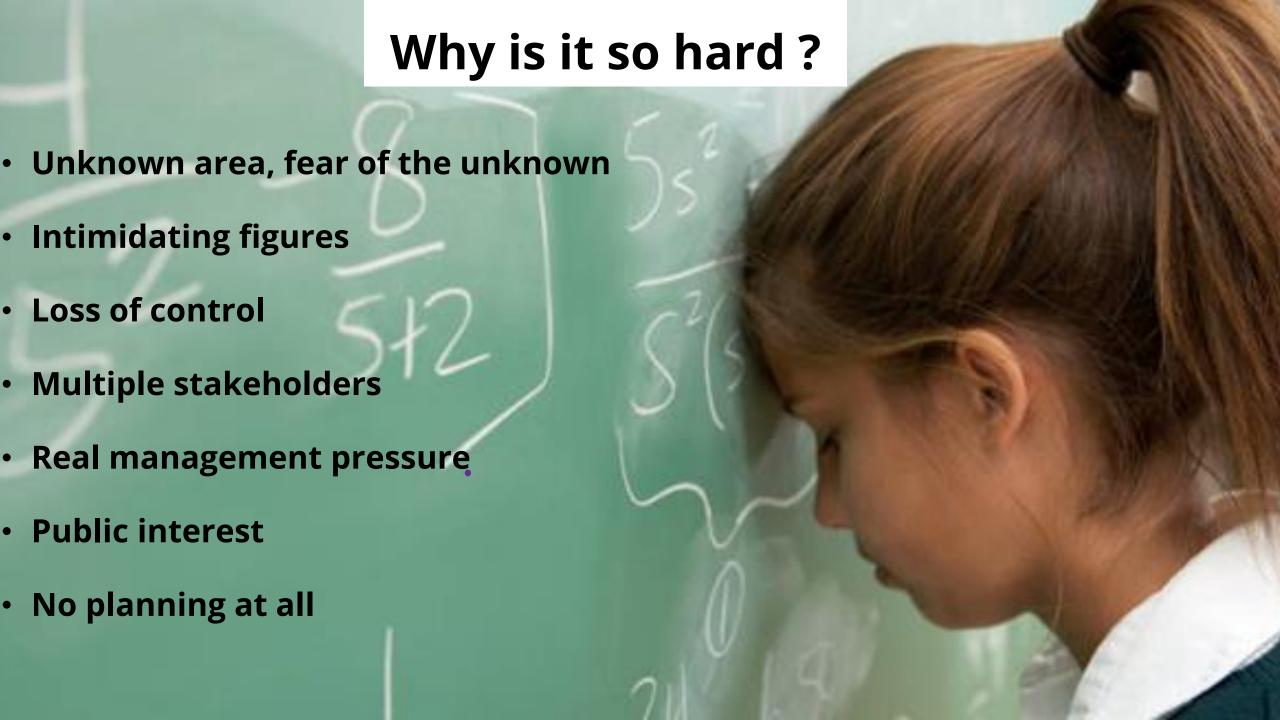
# The good guys are way behind and the gap is exponentially growing





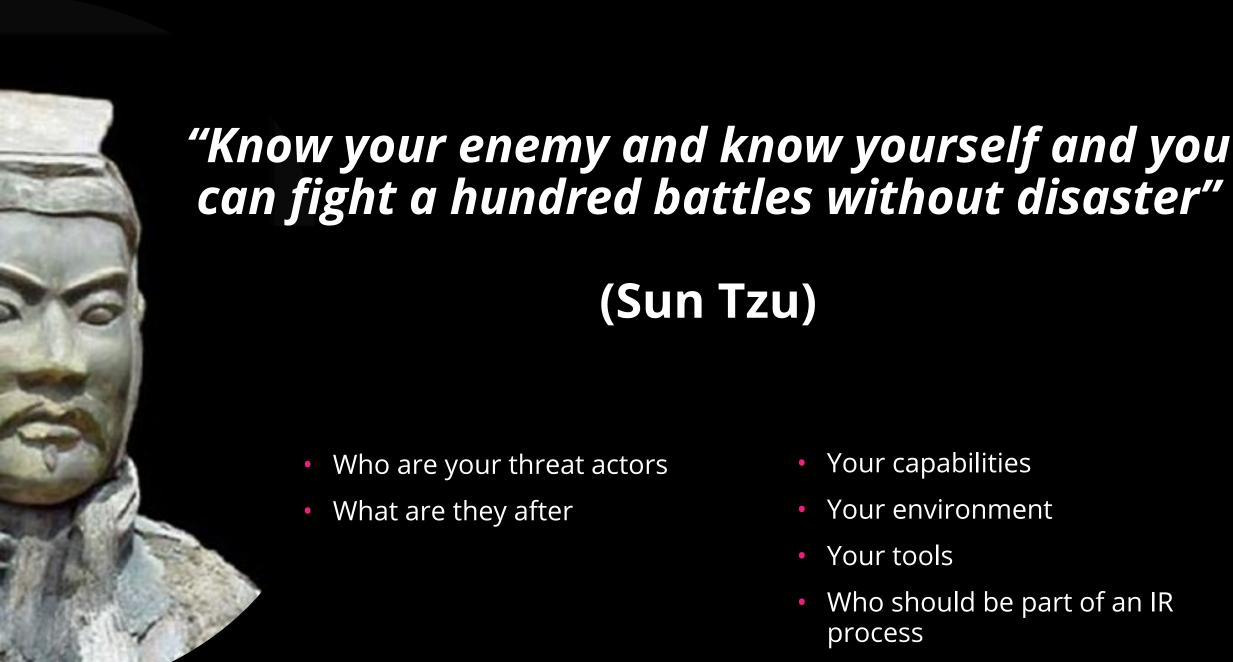




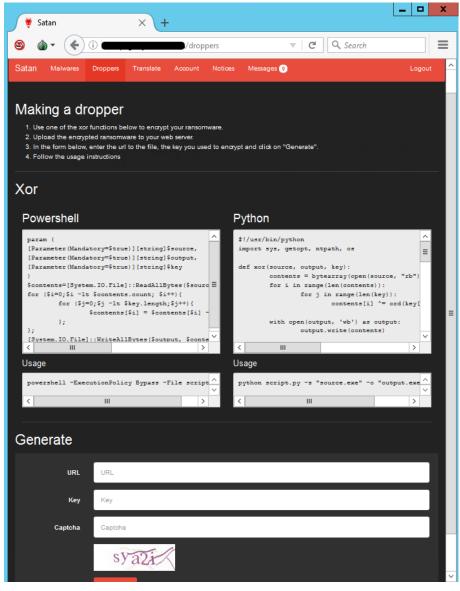


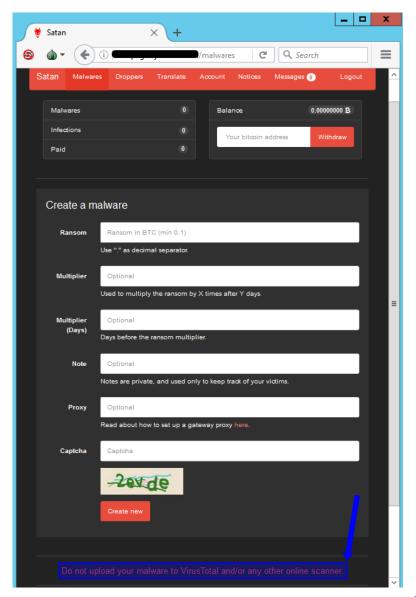






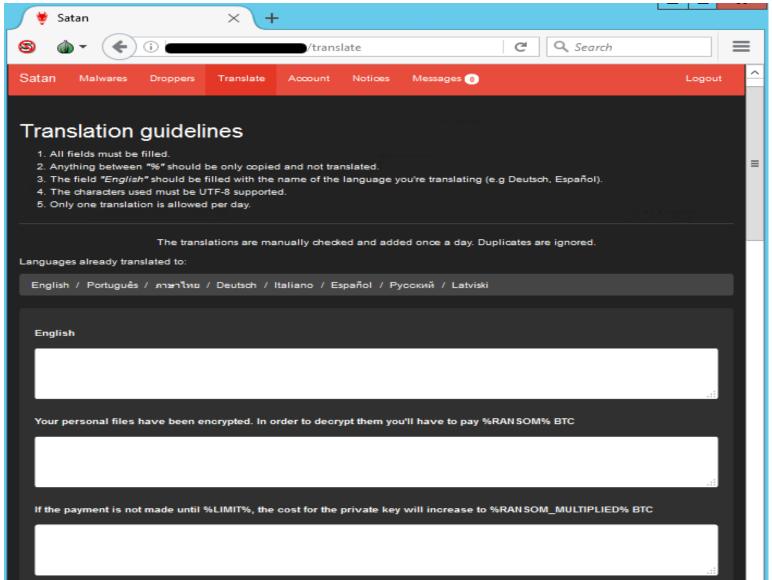
#### Ransomware as a Service





New York, USA | Tel Aviv, Israel | London, UK | +1 5646 68 5357 | www.holisticyber.com

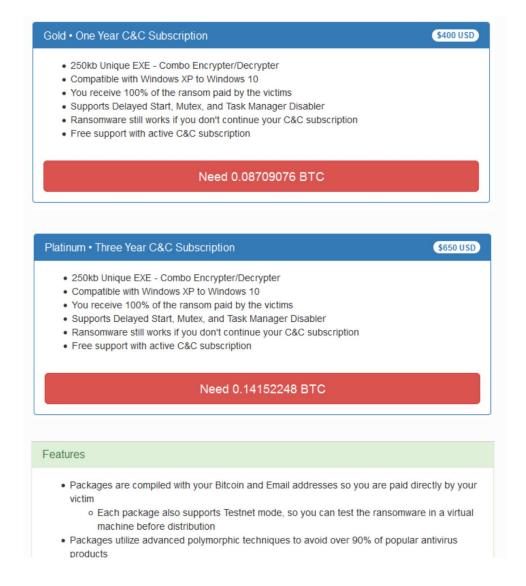
#### Ransomware as a Service





#### Ransomware as a Service









## I. Table of Contents Purpose ..... III. Definitions ..... IV. Roles & Responsibilities..... V. Stakeholders..... VI. Incident Assessment..... VII. Impact Criteria..... VIII. Scope Criteria ..... Threat Escalation Protocol ..... IX. X. Process Workflow..... XI. Response Procedures ..... XII. Appendix .....



## **Continuously improve**

Validate the plan

Re-assess based on strategic industry incidents

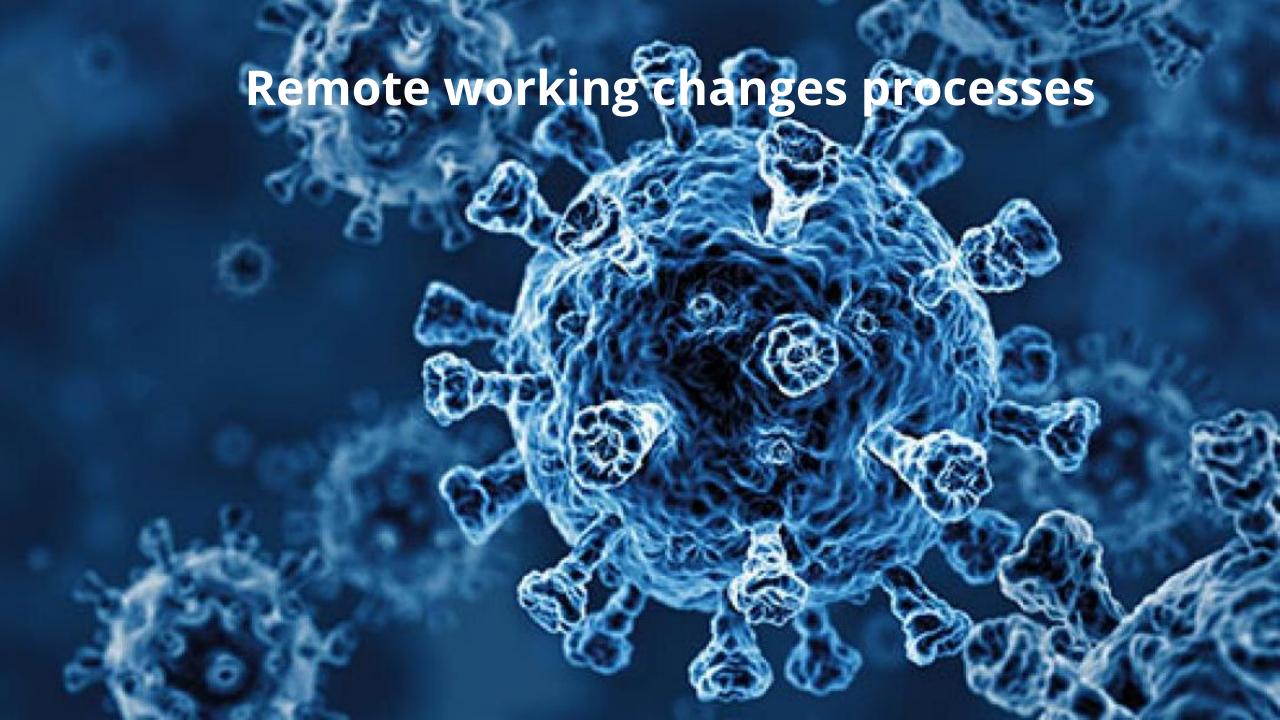
Re-assess based on the changing threat landscape

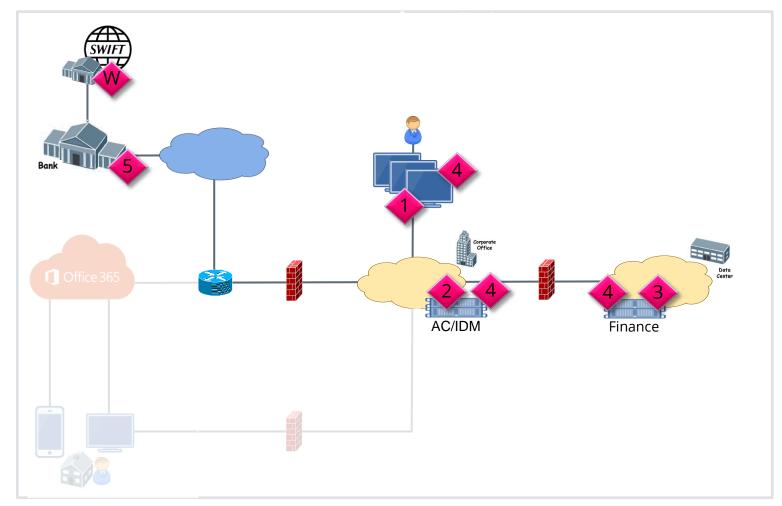
Re-assess based on organizational changes

Re-assess based on changing capabilities/tooling

Test, test, test



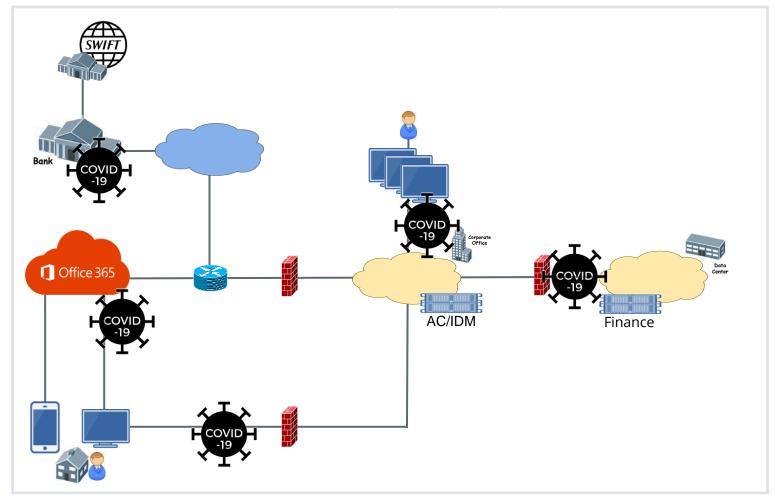




- **Login**
- Credential to the Financial Sys.
- Generate a new Wire

- Manager's approval (SoD)
- **Solution** Wire request sent
- Wire transfer







Offices closed



VPN access introduced new risks

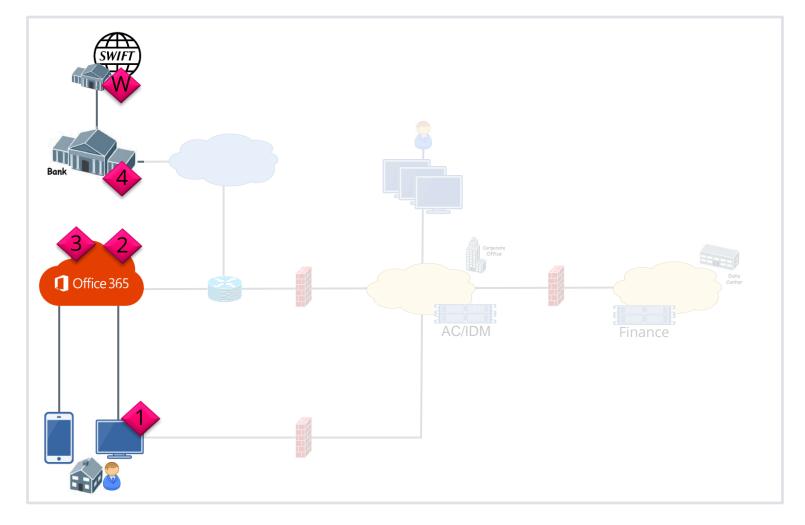


Users utilized emails for core processes



Bank's employees working remote and ease their wire approval processes

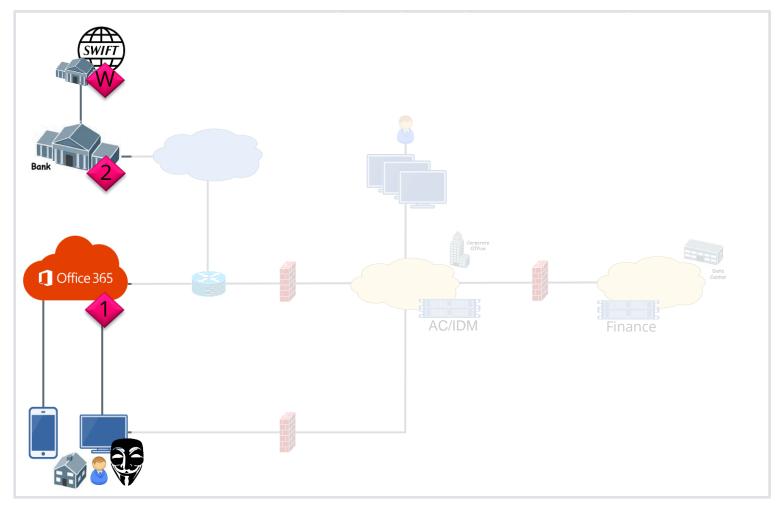




- OWA
- Wire request though email

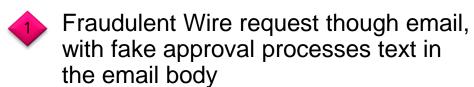
- Internal approvals though emails
- Wire request sent
- Wire transfer







#### **Credential Theft**



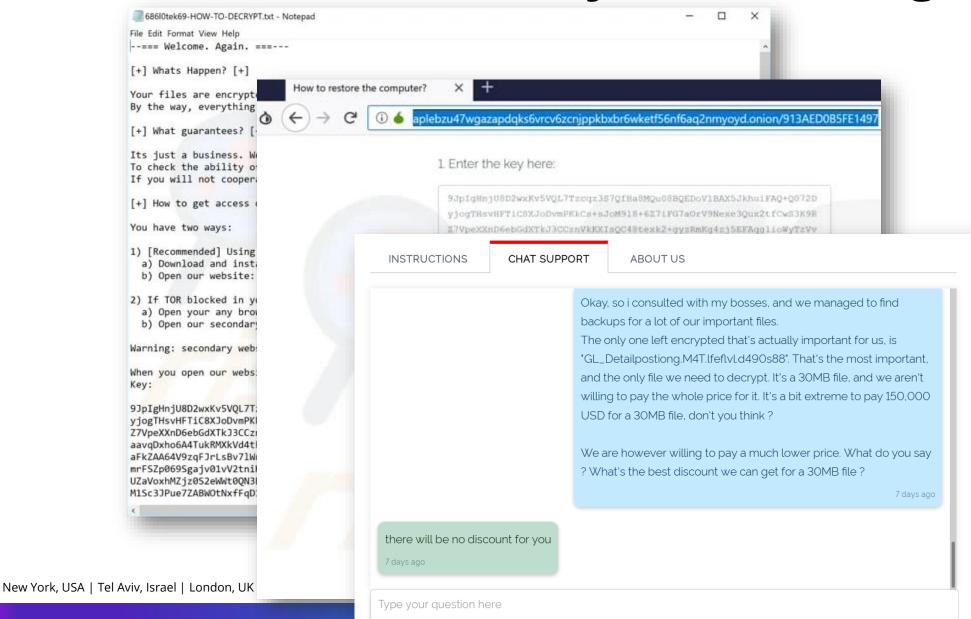








#### Sometimes it's just not enough



## IR plan cannot be an isolated effort

All security initiatives must work together to facilitate cyber resilience







## **Roles & Responsibilities**

			_								
Legend: R – Responsible A – Accountable C – Consulted I – Informed	End Users	Help Desk	WSSP/Strategic Security Vendors	Cybersecurity	IT Operations	CISO	Legal	Human Resources	Public Relations	Senior Management	External (e.g. Law Enforcement)
Detection & Analysis											
Report a suspected incident, such as a service disruption, a suspicious email, or an unusual endpoint behavior.	Α	R	С	С	C	 	 	-	 	 	-
Open a help desk ticket	1	R	R	ı	-   	A	-	-	-   	-   	-
Gather answers to incident-related questions.	С	A	-	-	-	Α	-	-	-	-	-
Perform indicator of compromise (loC) search (firewall, IDP, email gateway, SIEM, logs, etc.).	-	С	R I	R	c	A	     -	-   	     - 	     -	-
Determine what, if any, systems or devices were compromised (e.g. end-user devices, servers, applications).	С	С	С	R	R	Α	-	-	- -	- -	-
Assess the impact to servers, applications, storage, or other systems.	-	С	С	R	С	A	-	-	   - 	 	-
Determine the scope/breadth of the incident.	-	С	С	R	С	A	-		-	l	-





Table 3. Threat Escalation Protocol

in out Esculation 1 1010001					
Threat Escalation Protocol (TEP)					
Impact	Scope				
Impact	High	Medium	Low		
High	Tier 1	Tier 1	Tier 2		
Medium	Tier 1	Tier 2	Tier 2		
Low	Tier 2	Tier 2	Tier 3		

Threat Escalation Protocol (TEP)	Criteria	Stakeholders
TEP Tier 1	High impact, high scope High impact, medium scope Medium impact, high scope	<ul> <li>End User</li> <li>Help Desk</li> <li>Cybersecurity*</li> <li>IT Operations</li> <li>CISO</li> <li>Legal, HR, Customer Service</li> <li>Senior Management</li> <li>External Third Parties</li> </ul>
TEP Tier 2	<ul> <li>High impact, low scope</li> <li>Medium impact, medium scope</li> <li>Medium impact, low scope</li> <li>Low impact, high scope</li> <li>Low impact, medium scope</li> </ul>	<ul> <li>End User</li> <li>Help Desk</li> <li>Cybersecurity*</li> <li>IT Operations</li> <li>CISO</li> </ul>
TEP Tier 3	Low impact, medium scope     Low impact, low scope	<ul> <li>End User</li> <li>Help Desk</li> <li>Cybersecurity*</li> </ul>

