

Threats, Vulnerabilities and Attacks

WCCC Workshop May 17, 2021 9:00AM – 10:40AM

Mr. Dom Glavach Chief Security Officer and Chief Strategist



Today's Session





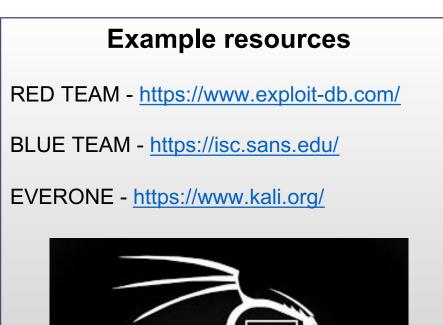
Cybersecurity Background





Red, Blue and You





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Threats

Threat	An activity intended to compromise the security of an information system by altering the availability, integrity, or confidentiality of a system or the information it contains.	
Threat Environment	Online space where cyber threat actors conduct malicious cyber threat activity.	
Threat Actor	Groups or individuals who aim to take advantage of vulnerabilities, low cyber security awareness, or technological developments to gain unauthorized access to information systems in order to access or otherwise affect victims' data, devices, systems, and networks.	
Motivation	Threat actors value access to devices, processing power, computing resources, and information for different reasons. Profit, Espionage, Satisfaction, Discontent, Ideologic, Curiosity	

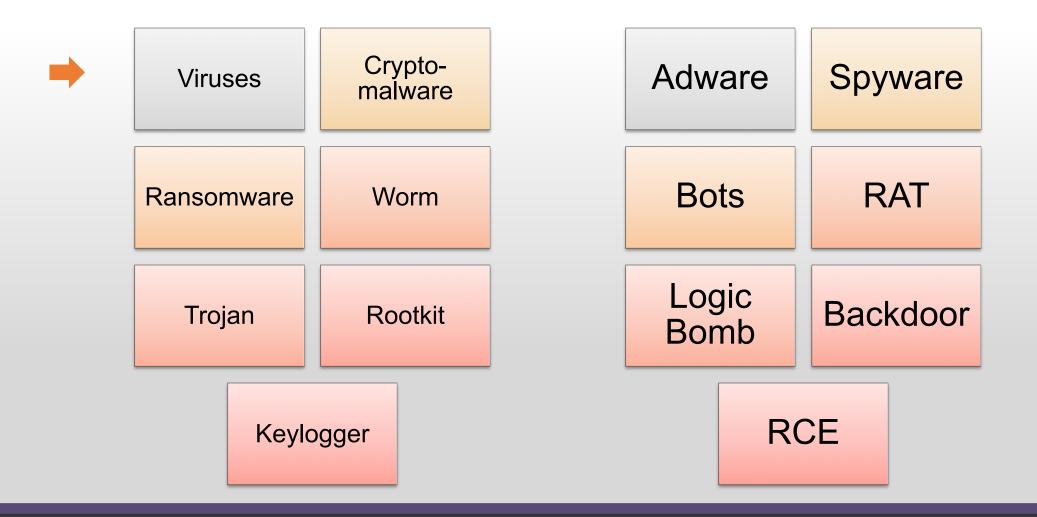


Threat Actors

Nation-states	(APT) Motivation: Espionage		
Cybercriminals	(Organized Crime) Motivation: Profit		
Hacktivists	(Groups) Motivation: Satisfaction		
Terrorist Groups	(Cyber Terrorists) Motivation: Disruption		
Thrill-seekers	(Lone Wolves) Motivation: Curiosity/Satisfaction		
Insider	(People) Motivation: None/Discontent		

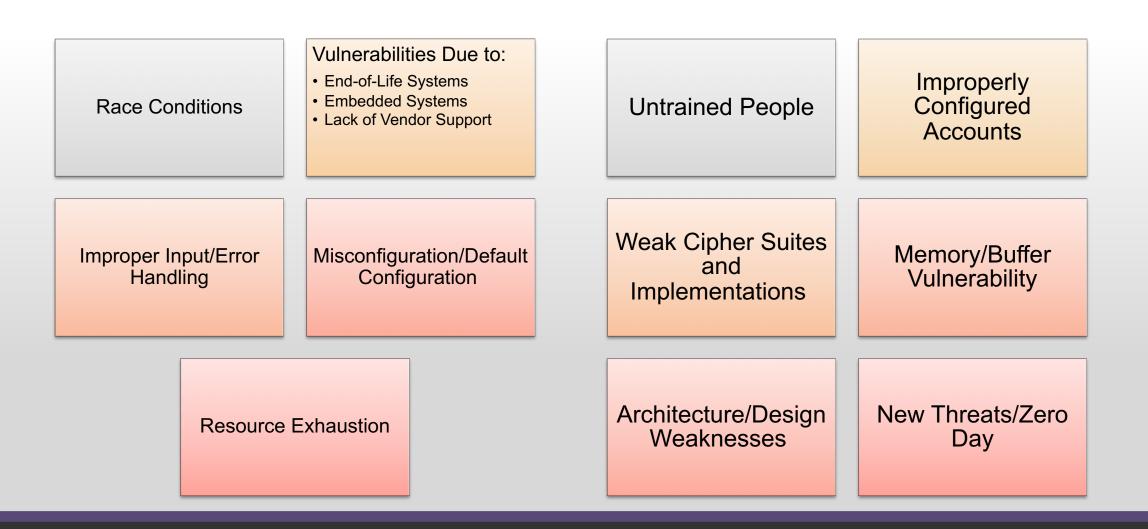


Threat Types





Vulnerabilities



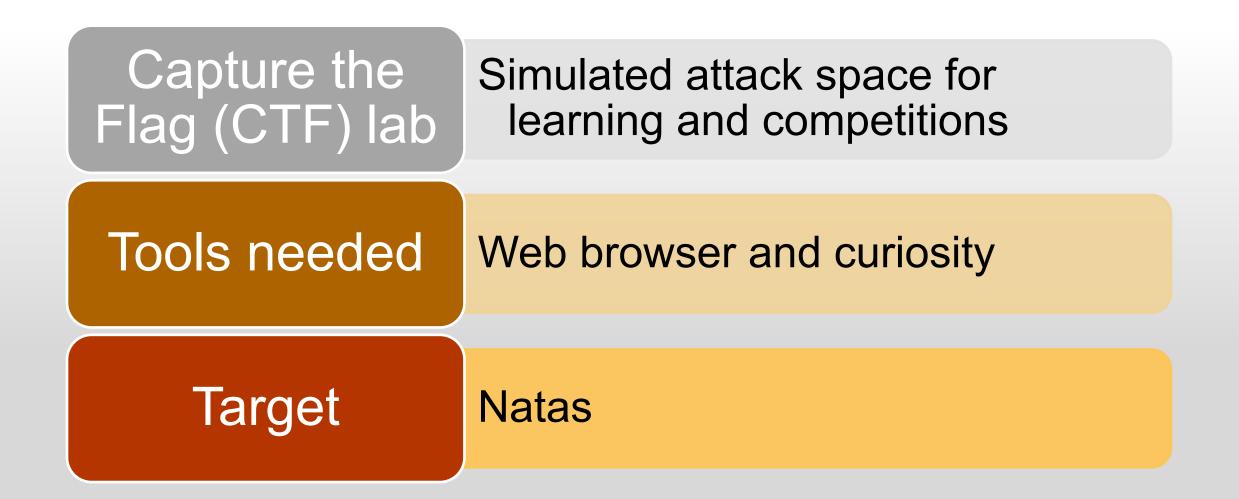


Attacks

Denial-of-service (DoS) and distributed denial-of-service (DDoS) attacks	Man-in-the-middle (MitM) attack	Phishing and spear phishing attacks	Drive-by attack
Password attack	SQL injection attack	Cross-site scripting (XSS) attack	Eavesdropping attack
	Birthday attack	Malware attack	



Interactive Lab







https://overthewire.org/wargames/natas/



Level 0 - Together





