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SECURITY BUILT ON TRUST

### AI CyberDefense in the Edge of Tomorrow

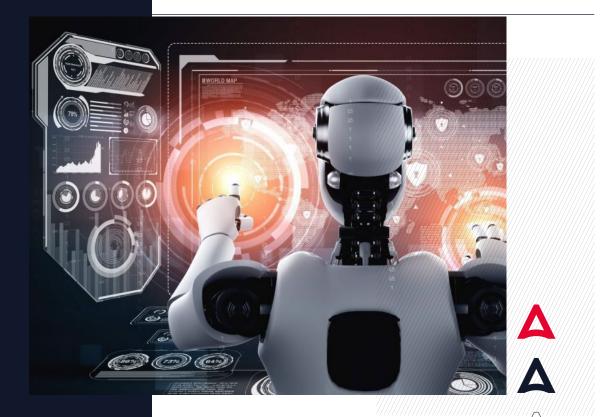
Nikitas Kladakis – General Manager



# Al vs Al

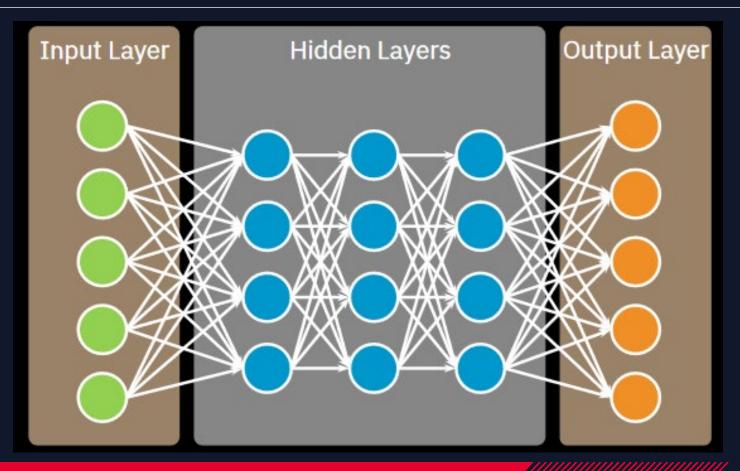


## Al vs Al: DeepLocker



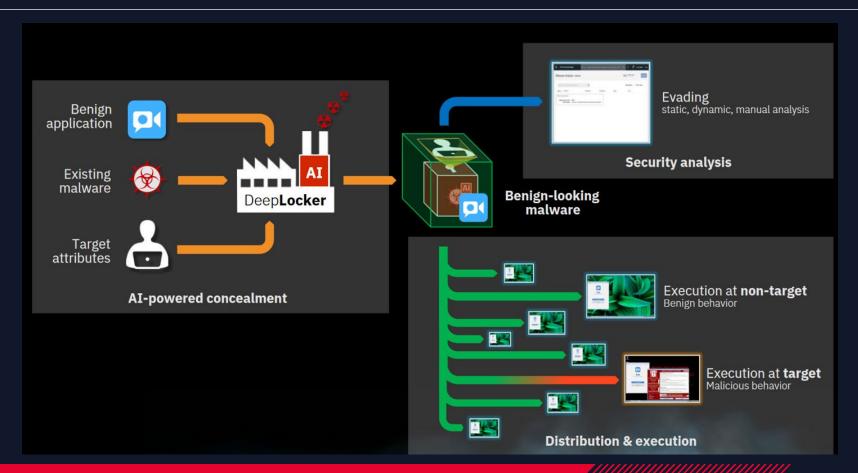
### What is a Deep Neural Network (DNN)?

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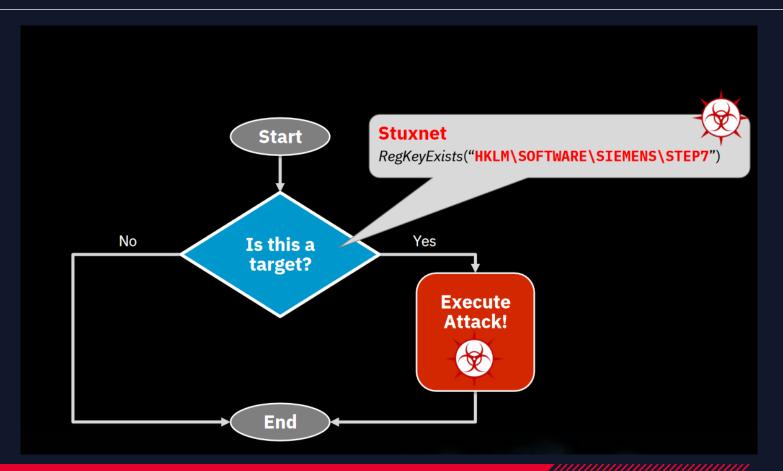


#### **DeepLocker - Overview**



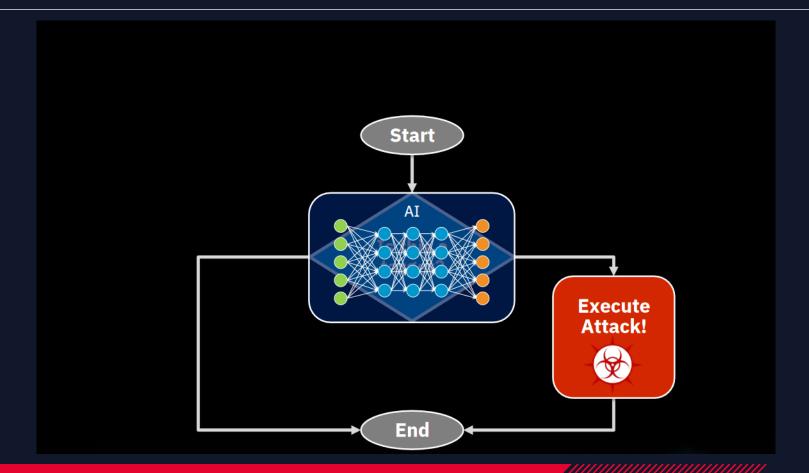


### **Traditional targeted attack**



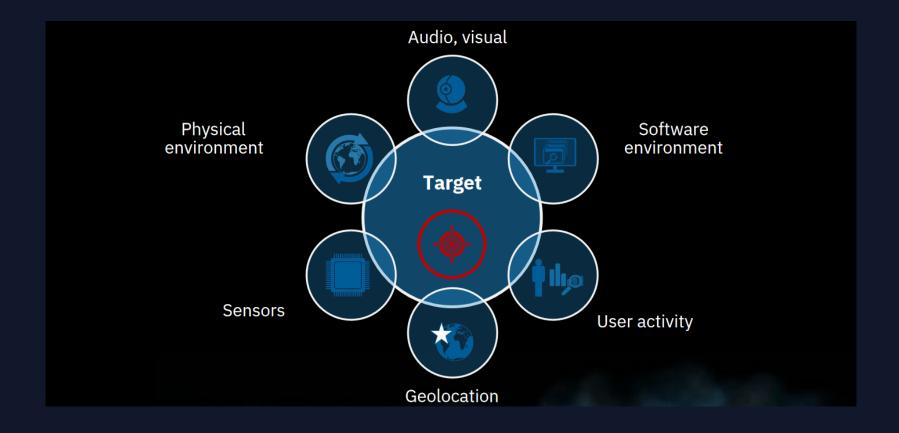


### Al-powered targeted attack



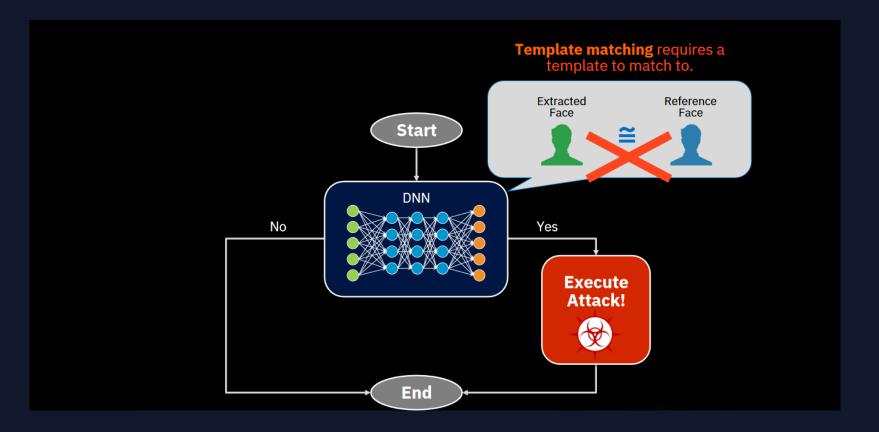


### **Target attributes**



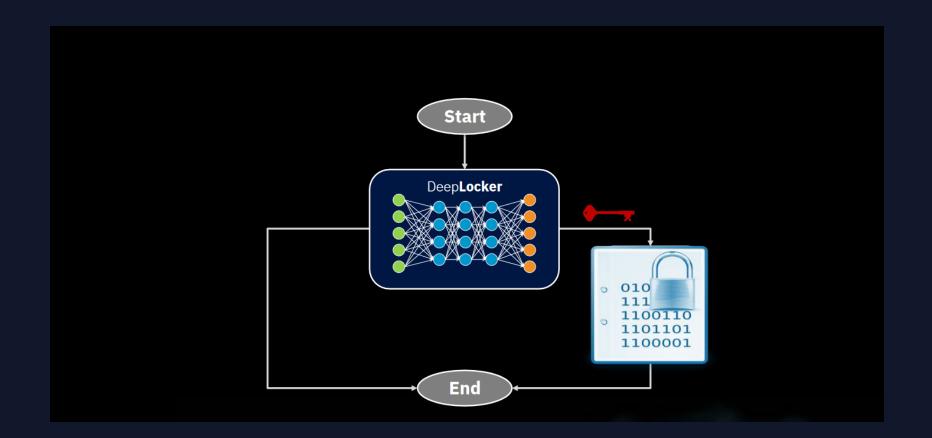


### **Target detection**

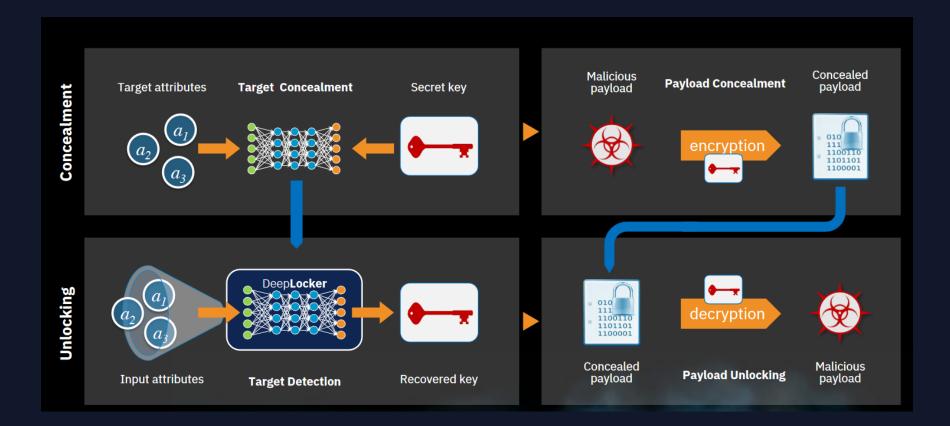




### Derivation of an unlocking key



### **DeepLocker – AI-powered Concealment and Unlocking**



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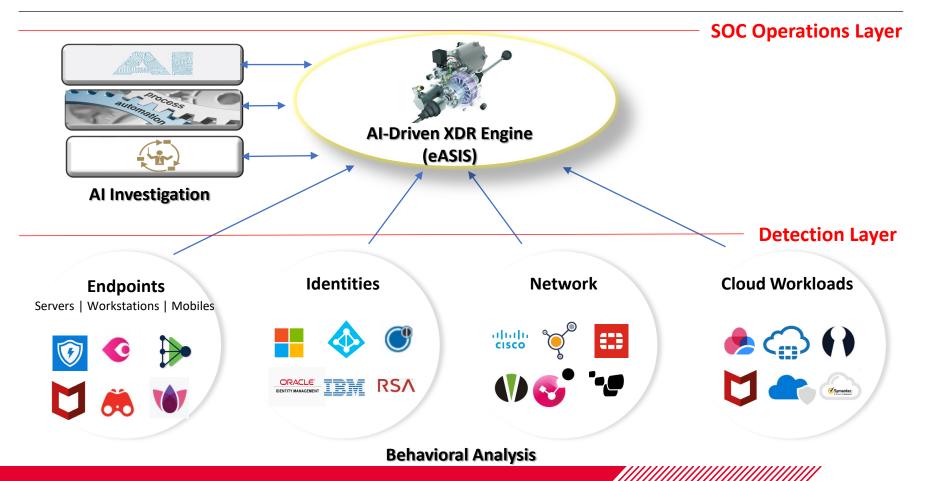


# Al vs Al: NG SOC Services



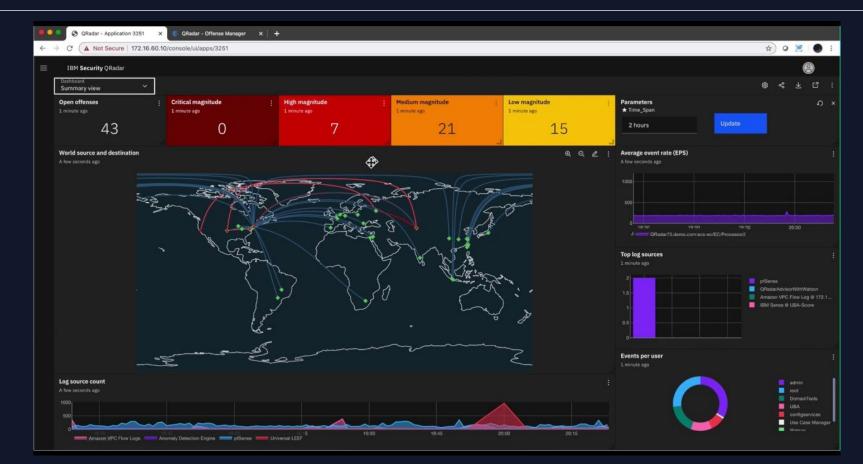


### **AI-Driven NG SOC Architecture**





### eASIS (based on IBM QRadar)



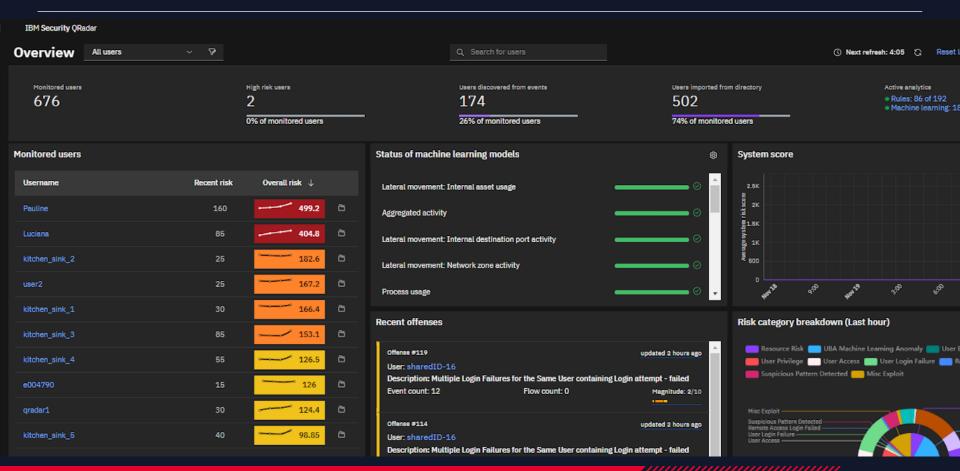


### **Identities**



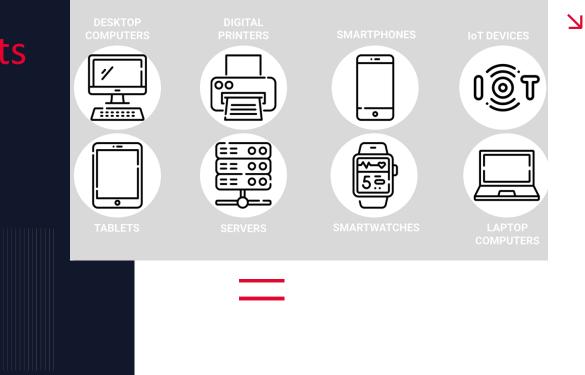
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### **User Behavior Analysis**





### Endpoints



### ADACOM Endpoint Detection and Response

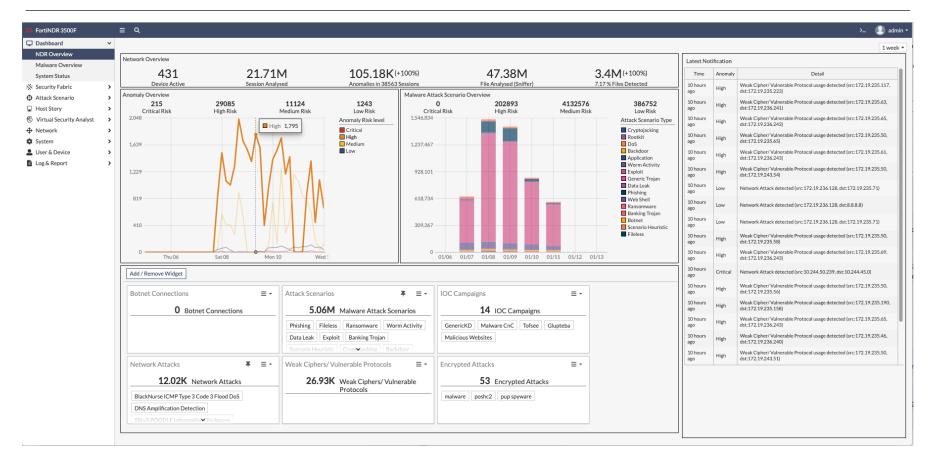
👰 Fortinet - Fortinet TMG	× +	ويسو والمؤوات وسلام										
(←) → ♂ @	🛛 🔒 https://fortiedr.c	vent-viewer					···· © ☆					
DASHBOARD		Forensics 🗸	COMMUNICATION CONTROL	∽ 101 SEC	CURITY SETTINGS 🐱	inventory 🛩	ADMINISTRATIO	ON 35	● Protection ❤ admin ❤			
EVENTS			🖵 ហ		Showing 1-7/7   >   +	Search Event	₹Q	CLASSIFICATION DETAILS				
📻 Archive 🔛 Mark As	+ 🖾 Export + ►Handle	e Event 🖀 Delete 🎯 F	forensics 🛛 😭 Exception Mana(	er								
	1970	PROCESS	CLASSIFICATION	DESTINATIONS	RECEIVED -	LAST UPDATED						
	3808 👩 DESKTOP-C2OOS3	B pre-execution.exe	Malicious	File Read Attempt		05-Aug-2020, 09:30:56	0	Malicious Fernance: Threat name: Win32.Trojan.Aechu				
Certificate: Unsigned Process path: CAUsers\singhs\Downloads\Files\malware\pre-execution.exe Raw data items: 1								Threat family: Aechu				
dihost.exe (3 events)			# Malicious		31-Jul-2020, 23:16:57			Threat type: Trojan				
RemoteFXvGPUDisablement.exe (1 event)			1 Inconclusive		16-Jul-2020, 12:25:17			History # Malicious, by FortinetCloudServices, on 05-Aug-2020, 09:31:03				
UsAppService.exe (1 event)			1 Inconclusive		16-Jul-2020, 12:24:59							
setup.exe (1 event)     powershell.exe (1 event)			1 Inconclusive	<ul><li>Inconclusive</li><li>Malicious</li></ul>		15-Jul-2020, 11:02:47 25-Jun-2020, 12:19:30						
			Malicious									
WINWORD.EXE (1 ev	ent)		Inconclusive		25-Jun-2020, 12:16:18							
								Triggered Rules				
								v 👕 Execution Prevention				
								Malicious File Detected				



### Network



### ADACOM Network Detection and Response









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### **Cloud Threat Analytics**





### Al Investigation

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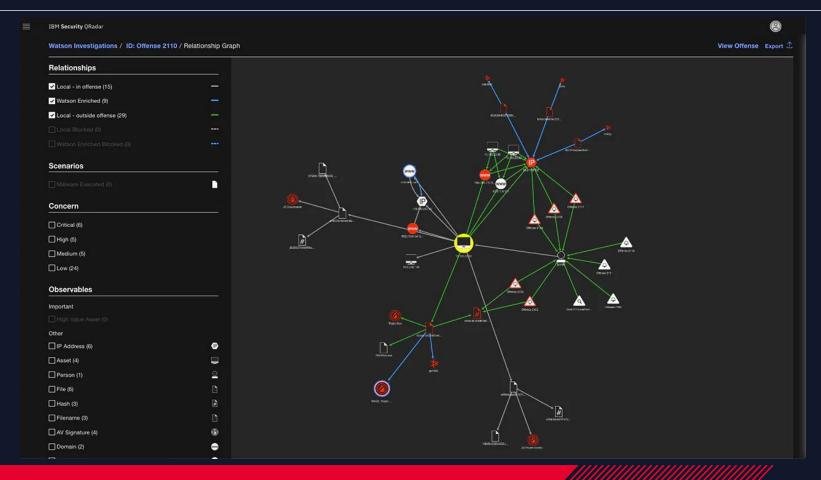


### IBM Watson (1/2)

IBM Security QRadar Watson Investigations / 1	D: Offense 2117								8
Key findings for Source IP 10.103.22.32 Default   Investigated							Reinvestigate Last investigation 5 d	Graph Relations	
Key Observables							Provide your feedback to improve the accuracy of Watson evaluations.		
Critical 7	Threat Actors	Malware Families 5	High Valu O	e Assets	High Va	lue Users	Watson determined this offense is a high priority. Do you agree?         Yes, I agree       No, I don't		
Compare with investigation	n from 5 days age						Adding your evaluation will not close the offense.		
> Filter Observables Table Concern 1	Туре	Description		Found Lo	cally ①	Trend			
Critical	2	ad02452104dfd1eb2c91053	e38332755	Yes			MITRE ATT&CK Tactics & Techniques		
Critical	0	JS/TrojanDownloader.Nemu	cod	Yes			Tactic/Technique Name (Show Rules)	Evidence	Confidence
Critical	<b>D</b>	ee18e36bf1cf32fac9ee006931a7a912 JS.Downloader		Yes – Yes –			Initial Access	Ľ	High
Critical	0						Execution	ß	High
Critical		0beb1124cbe82e4e1d3f743b5d711e5f		Yes			Persistence	C	High
Critical	0	Trojan.Gen		Yes			Defense Evasion	Ľ	High
Critical	ø	83.217.8.127		Yes		R	Credential Access	C	High
High	D	ad02452104dfd1eb2c91053e38332755		Yes			Extiltration		Low
High	D	ee18e36bf1cf32fac9ee006931a7a912 0beb1124cbe82e4e1d3f743b5d711e5f		Yes					
High	D			Yes			Automated Exfiltration	Ľ	Low
High	≉	nemucod		No					
High	*	locky		No			Offense Disposition Analysis		
High	D	8e876816e04489850f02e97	b8cf8d922	No		Ч	There are not enough recent similar offenses to provide a disposition analysis.		



### IBM Watson (2/2)





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### THANK YOU

