



ENDPOINT & MOBILE PROTECTION SOLUTIONS

Competitive Comparison

WHY DEEP INSTINCT?

Deep Instinct is the first and only company to apply deep learning to cybersecurity. By using deep learning's predictive capabilities, any kind of threat is prevented in zero-time.

Unlike other endpoint and mobile protection solutions, Deep Instinct applies full deep learning

on raw data, and not machine learning on hand-craft engineered features. That gives many advantages, where other solutions fail.

This comparison will showcase many of the advantages and differentiators of Deep Instinct's product over and above that of our competitors.

Deep Instinct is the only cybersecurity company that has deep learning-based, zero-time threat prevention platform, to protect:

- Any type of device, from any location: endpoint, mobile, server, tablet or network
- Multiple OS: Windows, macOS, Android, Chrome OS, iOS, iPadOS
- Against any file- or fileless-based attacks
- Achieving industry low levels of false positives

































































































































































While providing:

- Lower TCO (total cost of ownership)
- Required EDR capabilities

Deep Instinct does not require any of the following:





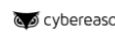





















































































































































- Signatures
- Online connectivity (for threat detection)
- Sandboxing (for threat detection)
- Traditional machine learning algorithms
- Experts for feature engineering
- AI training on-site
- Frequent updates
- Waiting for execution of the attack
- Skilled and expensive SOC team





Deep Instinct vs. Traditional Antivirus Endpoint Protection Solutions


									
Static analysis algorithm		Deep learning (raw data) 	Machine learning Signatures 	Machine learning Signatures 	Deep learning (hand-craft engineered features) Signatures 	Machine learning Signatures 	Machine learning (Decision Tree) Signatures 	Machine learning (in the cloud only) Signatures 	Machine learning (simple; better in the cloud) Signatures 
Detection rate									
False positive rate									
Static analysis: Supported file types		Deep learning: Any 	ML: PE, Mach-O Signatures: any 	ML: PE Signatures: any 	ML: PE Signatures: any 	ML: PE Signatures: any 	ML: PE Signatures: any 	Signatures: any 	Signatures: any 
Behavioral analysis		Ransomware Code injection Shellcodes Contextual scripts 	SONAR 	Anti-exploitation Reducing attack surface 	Ransomware Code injection Known shellcodes Credentials dumping 	Ransomware Machine learning 	Ransomware Anti-exploitation 		
Malware classification		Deep Classification (any threat) 	Signatures (known threats only) 	Signatures (known threats only) 	Signatures (known threats only) 	Signatures (known threats only) 	Signatures (known threats only) 	Signatures (known threats only) 	Signatures (known threats only) 
OS support: Endpoints		Windows macOS Chrome OS Linux 	Windows macOS Linux 	Windows macOS Linux 	Windows macOS Linux Chrome OS 	Windows macOS Linux 	Windows macOS Linux 	Windows macOS 	Windows macOS Linux 
OS support: Mobile		Android iOS, iPadOS 	Android iOS 	Android iOS 	Android iOS 	Android iOS 	Android iOS 	Android 	Android iOS 
Management server deployment		Cloud On-premises 	On-premises Cloud (partial) 	On-premises Cloud (partial) 	Cloud On-premises (partial) 	Cloud On-premises 	On-premises Cloud (up to 1K devices) 	Cloud only 	Cloud for monitoring (ATP) On-Premises for management (GPO) 
Management console		One 	Several 	One 	One 	One 	One 	One 	Several 
Agent footprint	# of agents	One 	One 	One 	Several 	One 	Several 	One 	One 
	CPU	<1% 	<1% 	<1% 	<1% 	<1% 	<1% 	<1% 	<1% 
	Disk space	150MB 	>1.7GB 	>600MB 	>220MB 	>550MB 	>500MB 		>400MB 
Fileless attacks	Scripts	Contextual analysis Macro static analysis Script control (PowerShell, JScript, VBScript, Macro, HTA, rundll32) 	Script Control (VBScript) Signatures 	Signatures 					
	Dual-use								
	Code injection								
Remediation	Kill process								
	Network isolation								
	Rollback								

Legend:  Very high / full support  High / partial support  Medium / limited support  Low / no support

















































































Deep Instinct vs. Endpoint Detection & Response Solutions





		 deepinstinct <small>DETECT. PREVENT. RESPOND.</small>	 BlackBerry CYLANCE	 CROWDSTRIKE	 SentinelOne	Carbon Black	 cybereason	 elastic	 paloalto <small>NETWORKS</small>
Static analysis algorithm		Deep learning (raw data) 	Machine learning (Random Forest) 	Machine learning (Logistic Regression) 	Machine learning (Random Forest) 	Signatures (OEM with Avira) 	Signatures (OEM with Bitdefender) 	Machine learning (GBDT) 	Machine learning (SVM) 
Detection rate									
False positive rate									
Static analysis: Supported file types		Deep learning: Any 	ML: PE, Mach-O 	ML: PE 	ML: PE, Office, PDF 	Signatures: PE 	Signatures: PE 	ML: PE, Office, Macros, PDF, Mach-O 	ML: PE 
Behavioral analysis		Ransomware Code injection Shellcodes Contextual scripts Credentials dumping 	Code injection Anti-exploitation Known shellcodes Credentials dumping RAM scraping 	Ransomware (partial) Anti-exploitation Known Shellcodes Credentials dumping 	Ransomware Code injection Known shellcodes Keyloggers Credentials dumping ML 	Code injection (partial) Ransomware (partial) Known shellcodes Credentials dumping 		Ransomware Code Injection Credentials dumping 	Ransomware Code injection Anti-exploitations 
Malware classification		Deep Classification (any threat) 	Cloud reputation (known threats only) 		Cloud reputation (known threats only) 				
OS support: Endpoints		Windows macOS Chrome OS Linux 	Windows macOS Linux 	Windows macOS Linux 	Windows macOS Linux 	Windows macOS Linux 	Windows macOS Linux 	Windows macOS Linux 	Windows macOS Linux 
OS support: Mobile		Android iOS, iPadOS 	Android iOS 	Android iOS 			Android iOS 		Android 
Management server deployment		Cloud On-premises 	Cloud On-premises 	Cloud only 	Cloud On-premises 	Cloud On-premises 	Cloud On-premises 	Cloud On-premises 	Cloud On-premises 
Management console		One 	One 	One 	One 	Several 	One 	One 	One 
Agent footprint	# of agents	One 	Several 	One 	One 	Several 	One 	One 	One 
	CPU	<1% 	<1% 	<1% 	<1% 	<1% 	<5% 	<1% 	<1% 
	Disk space	150MB 	140MB 			>170MB 			
Fileless attacks	Scripts	Contextual analysis Macro static analysis Script control (PowerShell, JScript, VBScript, Macro, HTA, rundll32) 	Script Control (PowerShell, JScript, VBScript, Macro) PowerShell analysis 	Suspicious PowerShell, rundll32, regsvr32 					
	Dual-use								
	Code injection								
Remediation	Kill process								
	Network isolation								
	Rollback								

Legend:  Very high / full support  High / partial support  Medium / limited support  Low / no support

 NeuShield add-on

Deep Instinct vs. Mobile Threat Defense Solutions

								
Static analysis algorithm	Deep learning (raw data) 	Machine learning (in the cloud only) 	Signatures Machine learning (in the cloud only) 	Machine learning 	Machine learning 	Machine learning 	N/A (Application Shielding) 	Machine learning 
Detection rate							N/A 	
False positive rate							N/A 	
Prevention / Remediation	Prevention Remediation 	Remediation 	Remediation 	Remediation 	Remediation 	Remediation 	N/A 	Remediation 
Device-level detections								
Network-level detections								
OS support: Endpoints	Windows macOS Chrome OS 			Windows macOS Linux 			Windows macOS Linux 	Windows macOS Linux 
OS support: Mobile	Android iOS, iPadOS 	Android iOS 	Android iOS 	Android iOS 	Android iOS 	Android iOS 	Android iOS 	Android iOS 
Management server deployment	Cloud On-premises 	Cloud On-premises 	Cloud only 	Cloud only 	On-premises only 	Cloud only 	Cloud only 	Cloud On-premises 

Legend:  Very high / full support  High / partial support  Medium / limited support  Low / no support

Glossary

TERM	DESCRIPTION
Static analysis algorithm	The algorithm that analyze files to determine whether it is malicious, without executing the files. Can be signature-, machine learning- or deep learning-based.
Detection rate	The percentage of identified malware correctly, out of the total number of malware analyzed.
False positive rate	The percentage of falsely identified non-malicious files as malicious, out of the total number of non-malicious files analyzed.
Supported file types	The only file types that are checked and analyzed using the static analysis algorithm.
Behavioral analysis	The mechanism that analyze processes to determine whether it is behaving maliciously.
Malware classification	The classification of a malware that determine to which type of malware it belongs. This provides a better understand of the malware's capabilities and potential threat.
Agent footprint	The resources that the agent software requires from the device to run. The footprint typically includes the CPU, memory and disk space usage.
Fileless attacks	An attack during which no portable executable (PE) file is written to and executed from disk. Fileless attacks can be implemented using various attack vectors including scripts, abusing legitimate files (dual-use) and code injection loaded into memory.
Remediation	The process to reverse or stop threats caused by malware. This can be implemented using one or more methods.