SAC

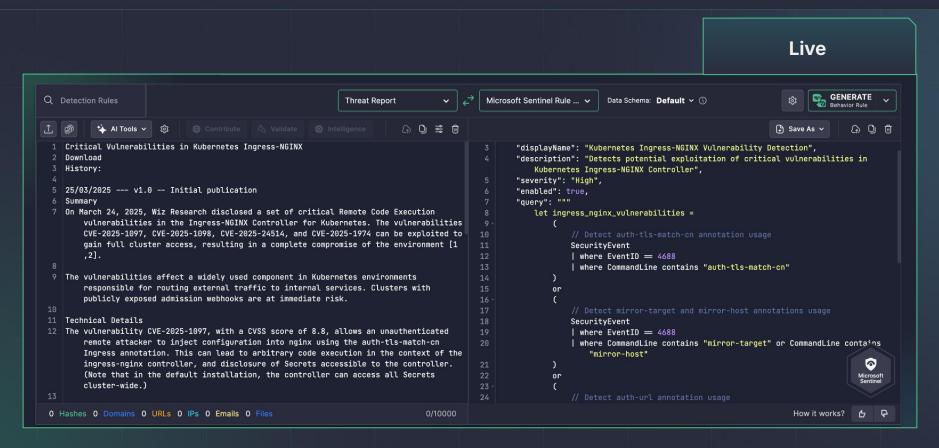
Free Al for Detection Engineers & Security Analysts, powered by Llama 70b

Key features and capabilities guide v1.0

Questions? Ideas? Join us at Discord Uncoder channel https://discord.gg/yYd47bA2XV

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Rule/Query Generation from a Report with Al



Rule/Query Generation from a Report with Al

Use case development life cycle may be long, sometimes too long. Uncoder AI analyzes the provided threat report and generates a rule/query to detect the described behavior. For this purpose, Uncoder AI uses Llama 3.3 customized for detection engineering and threat intelligence processing, hosted at SOC Prime SOC 2 Type II private cloud for maximum security, privacy, and IP protection.

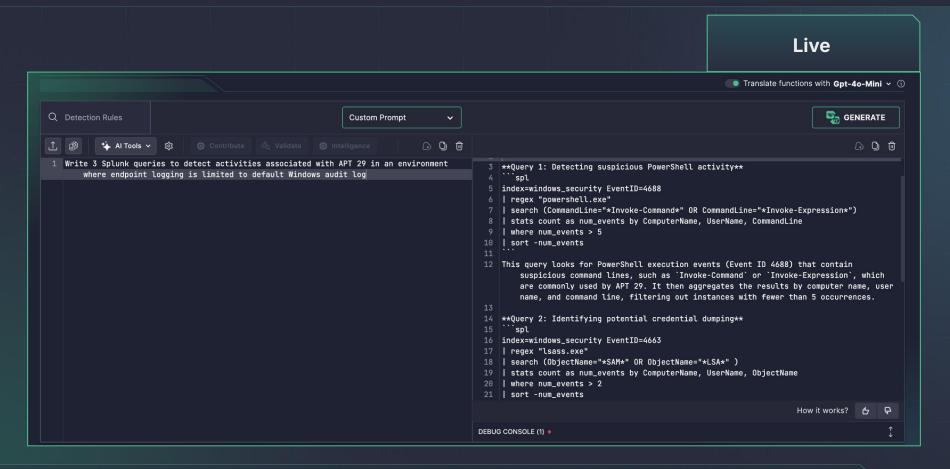
- Multiple languages supported
- Data doesn't leave SOC Prime's infrastructure
- Reduces time spent translating threat intelligence into actionable detections
- Enables rapid prototyping of rules
- Allows small teams to cover broader threat landscapes

Rule/Query Generation from a Report with AI



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Rule/Query Generation with a Custom Al Prompt

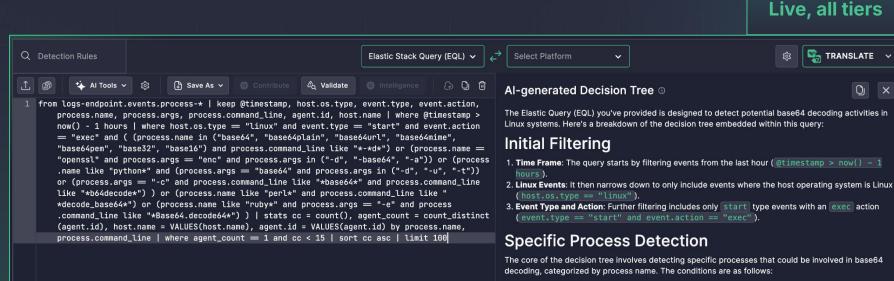


Rule/Query Generation with a Custom Al Prompt

The context and requirements when writing detections may be unique. Uncoder AI analyzes the provided custom prompt and generates a rule/query to detect the described behavior taking into account user's instructions. For this purpose, Uncoder AI uses Llama 3.3 customized for detection engineering and threat intelligence processing, hosted at SOC Prime SOC 2 Type II private cloud for maximum security, privacy, and IP protection.

- All the capabilities of rule generation from threat report
- Custom instructions allow for generating detections tailored to a particular environment or context

Rule/Query's Decision Tree summarization with Al



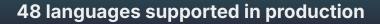
- Base64 Utilities:
 - Processes named base64, base64plain, base64url, base64mime, base64pem, base32, or base16.
 - These processes must have a command line containing -*d*, suggesting a decode operation.
- OpenSSL:
 - The process name is openss1.
 - It must be used with the enc argument and either -d (decode), -base64, or -a (which in some contexts might imply base64 encoding, but here it's part of decoding conditions).
- Pvthon:

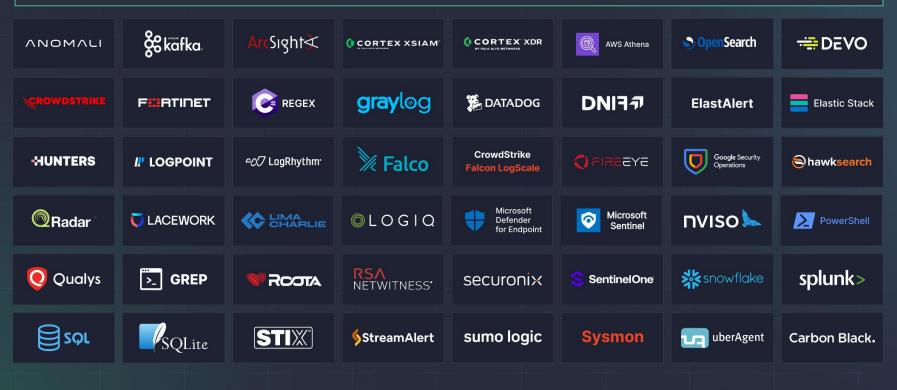
Rule/Query's Decision Tree summarization with Al

When dealing with complex threat detection logic, clarity is a necessity. Uncoder AI analyzes a query/rule and explains how it works step by step, with all the embeddings, branches and other intricate logic. For this purpose, Uncoder AI uses Llama 3.3 customized for detection engineering and threat intelligence processing, hosted at SOC Prime SOC 2 Type II private cloud for maximum security, privacy, and IP protection.

- Specific concise explanations
- Multiple languages supported
- Data doesn't leave SOC Prime's infrastructure

Rule/Query's Decision Tree summarization with Al





Rule/Query Full Summary with Al

In production

1	ð	🔖 Al Tools 🔻	~	🕒 Save As 🗸		Intelligence	ନ <u>(</u>		Full AI-generated Summary O	×
			~		DComputer - Scrip	tBlock ∺TrustedForDelegati	.on*" OR	×	This Splunk query is designed to search for specific Windows Event Log entries that contain indicators of potential Kerberos delegation abuse or configuration changes. Here's a breakdown of what the query does:	
	Scr -Al	iptBlockText=" lowedToDelegat	*-Propert eTo*" OR	ies*TrustedToAuth ScriptBlockText="	ForDelegation*" OR *-Properties*Princ	<pre>ScriptBlockText="* ipalsAllowedToDeleg 556.1.4.803:=524288</pre>	-Properties*m ateToAccount*		 Index and Source Filtering: The query starts by specifying Index== which means it searches across all available indexes in the Splunk environment. It then narrows down the results to only include logs from sources named "WinEventLog:*", indicating tha the focus is on Windows Event Logs. 	
									2. ScriptBlockText Conditions: The main body of the query uses an AND operator with a series of 0R conditions, all related to ScriptBlockText. This implies the search is looking for PowerShell script blocks (code snippets) within these event logs that match certain criteria. Specifically, it's searching for any mentions of properties or filters related to Kerberos delegation.	
									 TrustedForDelegation: This condition searches for instances where a user or computer account has been configured as trusted for delegation. In a Kerberos environment, this setting allows the account to impersonate users and access service on their behalf. 	s
									 TrustedToAuthForDelegation: Similar to the previous condition but specifically related to constrained delegation scenarios where an account is trusted to authenticate for delegation purposes. 	s
									 msDS-AllowedToDelegateTo: This attribute specifies the services to which a user or computer can present delegated credentials. The query looks for modifications or mentions of this attribute in script blocks, indicating possible configuratio changes that could affect delegation paths. 	in
									 PrincipalsAllowedToDelegateToAccount: This condition targets configurations where specific principals (users, computer etc.) are explicitly allowed to delegate their credentials to a particular account, which is another aspect of constrained delegation. 	s,
									 LDAPFilter with userAccountControl: The final condition searches for LDAP filters used in script blocks that specifically target accounts with the userAccountControl attribute set to 524288, which corresponds to the "TRUSTED_FOR_DELEGATION" flag. This flag indicates that an account is trusted for delegation, and modifying or searchin for this could be part of managing or exploiting Arberos delegation settings. 	g
									In summary, this Splunk query aims to detect potential security-related activities or misconfigurations within Windows environmer related to Kerberos delegation. It looks for indicators in PowerShell script blocks captured in the Windows Event Logs that might suggest changes to trusted delegation settings, which could be used by attackers to move laterally within a network or by administrators to manage and audit their environment's delegation configurations.	nts

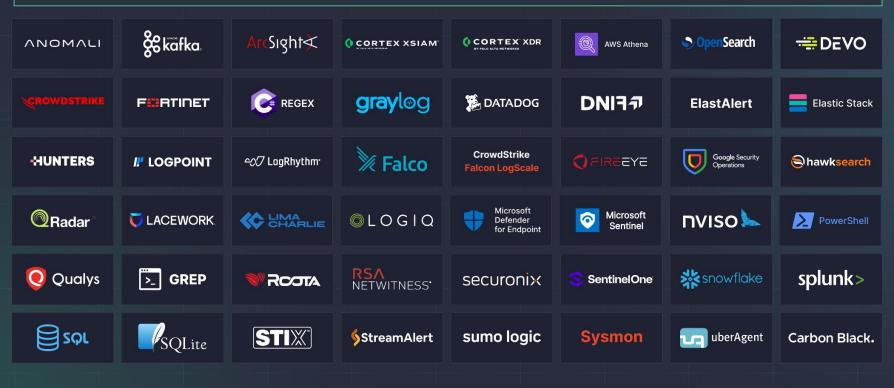
Rule/Query Full Summary with Al

Modern SOC teams need to process large volumes of detection logic. Much of it is complex, verbose, and time-consuming to understand. Uncoder AI analyzes rule/query and provides you with a detailed yet clear explanation of the detection logic and all the fine points involved. For this purpose, Uncoder AI uses Llama 3.3 customized for detection engineering and threat intelligence processing, hosted at SOC Prime SOC 2 Type II private cloud for maximum security, privacy, and IP protection.

- Clear and structured summary of the detection logic in human language
- Multiple languages supported
- Data doesn't leave SOC Prime's infrastructure

Rule/Query Full Summary with Al





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Query Optimization with AI

Live, all tiers

Q Detection Rules Microsoft Sentinel Query (Kusto) 🗸	Contract Select Platform
1 🗿 🔖 Al Tools 🗸 🕸 🕃 Save As 🗸 🔅 Contribute 💿 Intelligence 🛛 🖓 🛈	Al-generated Query Optimization
<pre>1 // Some URL are wrapped with a safelink 2 // Let's get the the unwrapped url and clicks 3 AlertInfo 4 where ServiceSource =~ "Microsoft Defender for Office 365" 5 join (6</pre>	The provided Microsoft Sentinel Query is quite complex and involves multiple joins. To optimize it for better performance (i.e., faster search speed), "Il provide suggestions to improve its efficiency. Optimized Query: AlertInfo I where ServiceSource =- "Microsoft Defender for Office 365" I join (AlertEvidence I where EntityType =="Url" project AlertId, RemoteUrl) on AlertId I join (AlertEvidence I where EntityType =="MuilMessage" I project AlertId, NetworkMessageId I distinct RemoteUrl, NetworkMessageId I join kind-inner EmailEvents on NetworkMessageId I join kind-inner IdentityInfo on \$left.RecipientEmailAddress, RecipientObjectId I join kind-inner (DeviceEvents I where ActoinType == "BrowserLaunchedToOpenUrl" and isnotempty(RemoteUrl) I project ViDeviceClickTime = Timestamp, UrlClickedByUserSid = RemoteUrl, I mitiatingProcessAccountSid on \$left.RecipientEmailAddress, RecipientObjectId, OnPremSid I join kind-inner (DeviceEvents I where ActionType == "BrowserLaunchedToOpenUrl" and isnotempty(RemoteUrl) I project ViDeviceClickTime = Timestamp, UrlClickedByUserSid are RemoteUrl, I right.AccountSid, DeviceMaw, DeviceId, InitiatingProcessFileName) on \$left.OnPremSid == Sright.InitiatingProcessAccountSid and \$left.RecoipientEunilAddress, RecipientEuniLAddress, RecipientObjectId, I origet.RemoteUrl, NetworkMessageId, RecipientEmailAddress, RecipientObjectId, OnPremSid I join kind-inner (DeviceEvents I where ActionType == "BrowserLaunchedToOpenUrl" and isnotempty(RemoteUrl) I project UrlDeviceClickTime = Timestamp, UrlClickedByUserSid = RemoteUrl, I mitiatingProcessAccountSid and Sleft.RecoipientEuniLAddress, RecipientObjectId, OmPremSid, UrlClickedByUserSid, DeviceMaw, DeviceId, InitiatingProcessFileName) on \$left.OnPremSid == Sright.InitiatingProcessAccountSid and Sleft.RemoteUrl == Sright.UrlClickedByUserSid I distint UrlDeviceClickTime, RemoteUrl, NetworkMessageId, RecipientEmailAddress, RecipientObjectId, OmPremSid, UrlClickedByUserSid, DeviceName, DeviceId, InitiatingProcessFi

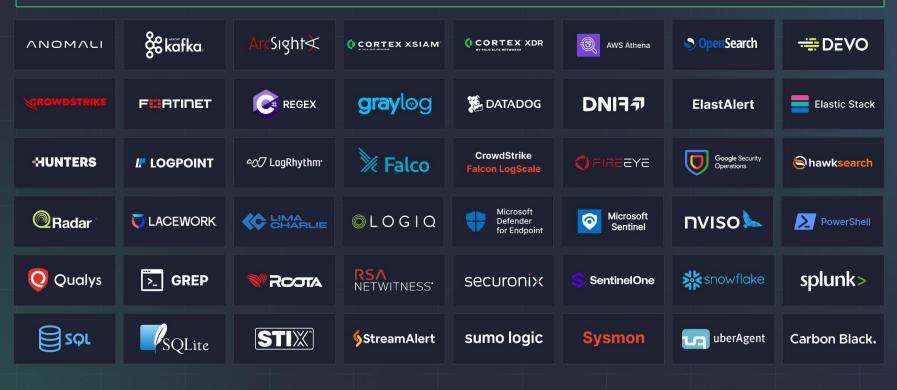
Query Optimization with Al

Query performance can become a bottleneck. Uncoder AI analyzes a query and either confirms it's optimal or suggests performance improvements. For this purpose, Uncoder AI uses Llama 3.3 customized for detection engineering and threat intelligence processing, hosted at SOC Prime SOC 2 Type II private cloud for maximum security, privacy, and IP protection.

- Practical and specific suggestions
- Multiple languages supported
- Data doesn't leave SOC Prime's infrastructure

Query Optimization with Al

48 languages supported in production



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Rule/Query Short Summary with Al

In production

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Short Al-generated Summary ()

This Google SecOps Query is designed to detect potential malicious activity related to file creation in the Windows System32 folder, specifically within the CodeIntegrity directory. It filters out known legitimate processes and commands that may create files in this ocation, such as those related to Microsoft Configuration Management, WDAC Wizard, PowerShell, and dillhost. The query aims to dentify unauthorized or unexpected file creation events that could indicate a security threat.

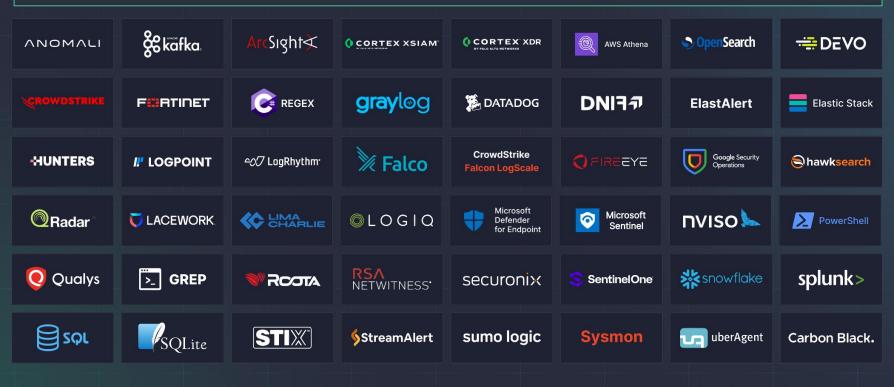
Rule/Query Short Summary with Al

When working with third-party content, you often wish you could understand a query/rule at a glance. Uncoder AI transforms detection queries/rules into concise human-readable insights. For this purpose, Uncoder AI uses Llama 3.3 customized for detection engineering and threat intelligence processing, hosted at SOC Prime SOC 2 Type II private cloud for maximum security, privacy, and IP protection.

- "Executive level" summary of the detection logic
- Multiple languages supported
- Data doesn't leave SOC Prime's infrastructure

Rule/Query Short Summary with Al





Rule Syntax and Structure Validation with Al

		Live
		Translate functions with Gpt-4o-Mini ~ ③
Q Detection Rules Splunk Qu	ry (SPL) ✓ ← Select Platform ✓	🕸 🌄 TRANSLATE 🗸
<pre>1</pre>	Overall Structure: The query is well-structured and pipes () to separate each command, which is corr	rect. usage of index and source specifications. ct usage of the OR operator for filtering events. ge of the Din command for grouping time ccount Name:\\s*(? regular expression seems complex, but it's oup ((? <username>.*)) to extract the : Correct usage of the stats command for rect usage of the where command for filtering value delimiters, such as double quotes (") tterns. y appears to be using fields that are consistent sluding EventCode, Keywords, and _time. ssues if the index is very large, as it searches all</username>

Rule Syntax and Structure Validation with Al

Everyone makes mistakes, especially in a rapid rule development environment. Uncoder AI analyzes the syntax and structure of a rule/query and flags errors, suggests improvements, or confirms that everything is correct. For this purpose, Uncoder AI uses Llama 3.3 customized for detection engineering and threat intelligence processing, hosted at SOC Prime SOC 2 Type II private cloud for maximum security, privacy, and IP protection.

- Multiple languages supported
- Data doesn't leave SOC Prime's infrastructure
- Reduces time spent manually debugging syntax or structural issues to enable faster iteration and deployment of new detections
- Assists less experienced engineers by offering real-time, contextual feedback and improvement suggestions
- Flags logic flaws (e.g., overly broad conditions, redundant clauses), not just syntax

Rule syntax and structure validation with Al



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Predict ATT&CK Tags in Sigma Rules with ML

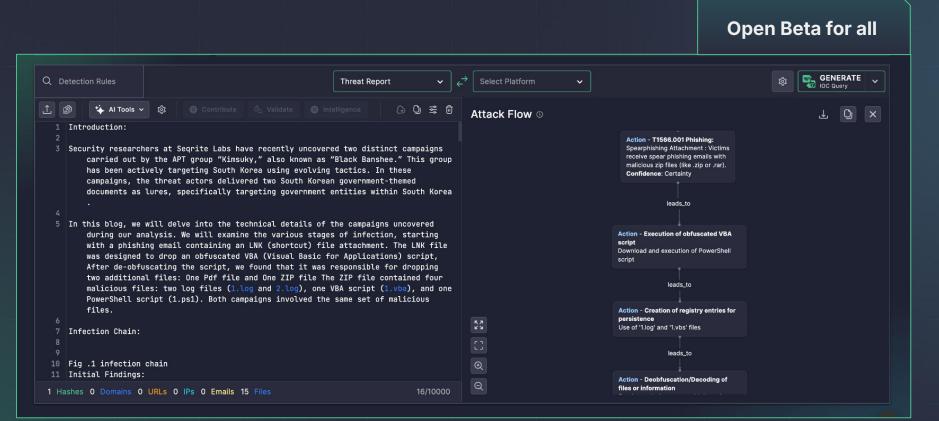
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9	- ht05/09/seo-poisoning-a-gootloader-story/	
10	author: pH-T (Nextron Systems), Harjot Singh, @cyb3rjy0t	
11	date: 2022-05-20	
	modified: 2023-04-06	
13-	tags:	
14	- attack.t1059.001	
15	- attack.t1027	
16-		
17	category: process_creation	
18 10-	product: windows	
19 - 20 -	detection:	
20 -	selection_img:	
21 * 22	- Image endswith: - \powershell.exe	
22	- \pwwwwsnett.exe - \pwsh.exe	
23 24 -	- \pwsn.exe - OriginalFileName:	
24 • 25	- OverShell.EXE	
25		

Predict ATT&CK Tags in Sigma Rules with ML

MITRE ATT&CK is a widely used framework for detection content, yet mapping rules to it takes time and training. Uncoder AI uses a privately hosted ML model to map a provided Sigma rule to ATT&CK techniques and subtechniques.

- Data doesn't leave SOC Prime's infrastructure
- The model has been trained on over 20,000 Sigma rules, being the largest manually created dataset in existence
- SOC Prime has unique way of tagging Sigma rules as we have ve invented this approach in 2018 and advocated it since then
- Reduces manual effort in mapping detections to ATT&CK
- Ensuring that detections are systematically aligned to ATT&CK:
 - Improves visibility into technique coverage and gaps
 - Facilitates better correlation with threat intel, red team findings, and adversary emulation plans
 - Helps in structured reporting

Attack Flow Generation with Al



Attack Flow Generation with Al

Visualization can be a great help in understanding an attack. Uncoder AI analyzes the provided threat report of other description of malicious activities and visualizes it in the form of Attack Flow. For this purpose, Uncoder AI uses Llama 3.3 customized for detection engineering and threat intelligence processing, hosted at SOC Prime SOC 2 Type II private cloud for maximum security, privacy, and IP protection.

- Inspired by the open-source <u>Attack Flow</u> project to help defenders move from tracking individual adversary behaviors to tracking the sequences of behaviors that adversaries employ to move towards their goals
- Data doesn't leave SOC Prime's infrastructure
- Reduces the time to understand the attack. On average, generation takes about 2 minutes
- Visualized attack flows can directly inform detection rule logic by identifying TTP chains, enabling proactive defense without relying on IOCs
- When linked to existing telemetry or detection rules, it helps prioritize threats that map to known gaps or current alerts
- Machine-readable MMD export for easier integration with detection engineering workflows
- Gives engineers a visual depiction that aids communication with non-technical stakeholders, management, and executives

AI-Assisted Cross-Platform Translation

Live for paid, final QA for free

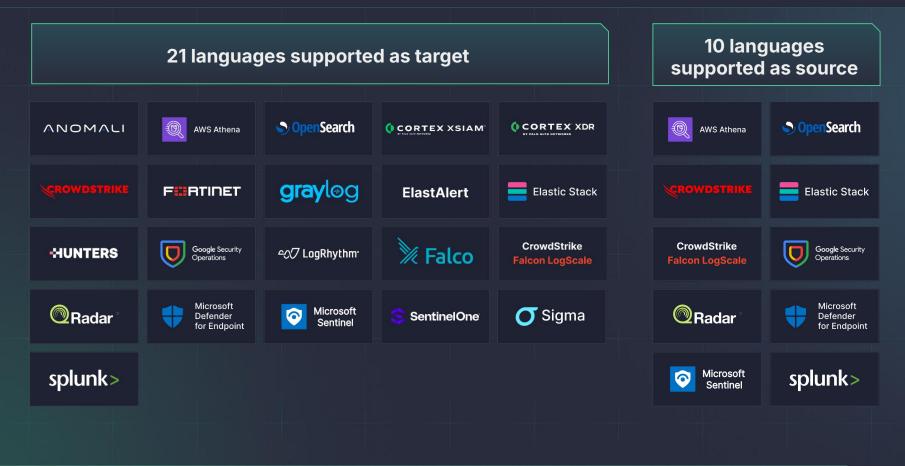
Q Detection Rules Microsoft Sentinel Query (Kusto) 🗸	Splunk Query (SPL) V Splunk Query (SPL) V
1 👔 🏟 Al Tools 🗸 🕸 Save As 🗸 🔅 Contribute 🌒 Intelligence 🗘 🛈	Sigma Splunk Query (SPL) 🛦 🕞 Save As 🗸 🕞 🗍
<pre>1 SAPBTPAuditLog_CL 2 where Message has "malware" 3 extend MessageData = parse_json(tostring(Message.data)) 4 extend 5 ClusterID = tostring(MessageData.clusterID), 6 WorkspaceID = tostring(MessageData.message) 7 Message = tostring(MessageData.message) 8 parse Message with * 'user: ' User '.The following issues were detected: ' Malware ',' * 9 extend 10 AccountName = tostring(split(User, '@')[0]), 11 UPNSuffix = tostring(split(User, '@')[1]) 12 project 13 UpdatedOn.</pre>	<pre>source=WinEventLog:* AND Message="*malware*" spath input=Message.data output=MessageData eval ClusterID = coalesce(MessageData.clusterID, ""), WorkspaceID = coalesce(MessageData.wsID, ""), Message= coalesce(MessageData.message, "") rex field=Message" vuser: (?</pre> lever>.*?)Lever>.*?)I eval AccountName = split(User, "@")[0], UPNSuffix = split (User, "@")[1] table UpdatedOn, ClusterID, WorkspaceID, Message, User, Malware, Tenant, SpaceId, Category, CloudApp="SAP BTP", AccountName, UPNSuffix
14 ClusterID, 15 WorkspaceID,	How it works? 🗗 🔁
16 Message, 17 User,	DEBUG CONSOLE (1) • ^ U
18 Malware, 19 Tenant, 28 SpaceId, 21 Ottorary	[08:49:33] UNMAPPED FIELDS IN SOURCE Message
21 Category, 22 CloudApp = "SAP BTP", 23 AccountName, 24 UPNSuffix	

AI-Assisted Cross-Platform Translation

Translating content across security platform languages can become a nightmare, especially as part of SIEM migration. Uncoder AI translates across platform-native languages:

- 10 source languages and 21 target languages supported
- Basic query logic translated natively by Uncoder. Advanced function translation generated by third-party AI (OpenAI's GPT-4o-mini model)
- Opt-in use of third-party AI, only advanced functions are sent as part of prompt (we're in the process of transitioning to a locally hosted Llama model to further improve on privacy and speed)
- Any unmapped fields and source parts that are not supported by target are listed for manual review
- Sigma rule generated for each translation to capture the basic logic

AI-Assisted Cross-Platform Translation



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Translate from Sigma into 48 Languages

			In production
٩	Detection Rules	Sigma 👻 🗧	← Splunk Alert (SPL) v 🕸 🖏 TRANSLATE
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4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<pre>id: 6385697e-9ftb-40bd-8817-f4a91f40508e related: - id: fd6e2919-3936-40c9-99db-0aa922c356f7 type: obsolete status: test description: Detects UTF-8 and UTF-16 Base64 encoded powershell 'Invo references: - https://thedfirreport.com/2022/05/09/seo-poisoning-a-gootloader-s author: pH-T (Wextron Systems), Harjot Singh, @cyb3rjy0t date: 2022-05-20 modified: 2023-04-06 tags: - attack.execution - attack.t1059.001 - attack.t1059.001 - attack.t1097 logsource: category: process_creation product: windows detection: selection.img: - Imagelendswith:</pre>		<pre>1 [PowerShell Base64 Encoded Invoke Keyword] 2 alert.severity = 4 3 description = Detects UTF-8 and UTF-16 Base64 encoded powershell 'Invoke-' calls (Rule ID:</pre>

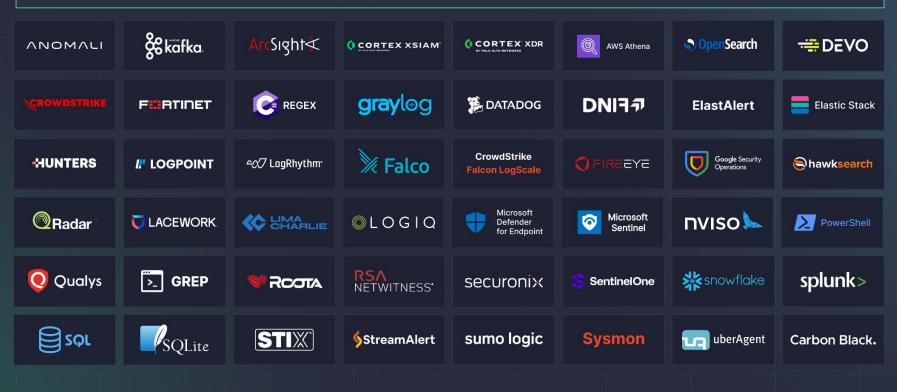
Translate from Sigma into 48 Languages

Don't get into a vendor lock-in with your security platform. Uncoder Al natively translates Sigma rues into multiple SIEM, EDR, XDR, and Data Lake languages.

- Detection portability & scalability across heterogeneous environments
- #1 translation engine for Sigma rules by users, by languages, by features
- Security vendor agnosticism with Sigma as a single source of truth
- Removing translation overhead
- Leveraging large Sigma community for open-source detections
- Full use case life cycle support when combined with Threat Detection Marketplace

Translate from Sigma into 48 Languages

48 languages supported in production



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Supercharge into Roota In production SUPERCHARGE From Splunk Alert (SPL) n 1 [PowerShell Base64 Encoded Invoke Keyword] 2 alert.severity = 4 3 description = Detects UTF-8 and UTF-16 Base64 encoded powershell 'Invoke-' calls (Rule ID: 6385697e-9f1b-40bd-8817-f4a91f40508e) Reference: https://tdm.socprime.com/tdm/info/ 4 cron_schedule = 0 * * * * 5 disabled = 1 6 is scheduled = 1 7 is visible = 1 8 dispatch.earliest_time = -60m@m 9 dispatch.latest_time = now 10 search = index=* source="WinEventLog:Hicrosoft-Windows-Sysmon/Operational" AND (((NewProcessName="*\\powershell.exe" OR NewProcessName="*\\powershell.exe") OR (OriginalFileName="PowerShell.EXE" OR OriginalFileName="powsh.dll")) AN Enhance With More Queries Roota 🛱 Save As 🗸 间 20 logsource: {} 22 - false-positives: |-Possible False-Positives or Benign Activities for PowerShell Base64 Encoded Invoke Keyword 1. Legitimate administrative scripts that utilize Base64 encoding for obfuscation. 2. Third-party applications that use PowerShell for automation and may encode commands in Base64. 3. Security tools that leverage PowerShell for legitimate purposes, such as endpoint protection or monitoring. 4. User-initiated PowerShell scripts that are encoded for ease of transfer or storage. 5. Scheduled tasks or cron jobs that execute Base64 encoded PowerShell commands for routine maintenance. Recommendations to Avoid False-Positives or Benign Activities 1. Implement a whitelist of known legitimate scripts and applications that use Base64 encoding. 2. Monitor the context in which the Base64 encoded commands are executed, including user identity and execution time. 3. Analyze the content of the decoded Base64 strings to determine if they align with known benign activities. 4. Correlate PowerShell execution events with other logs (e.g., user activity, file access) to establish a clearer picture of intent. 5. Educate users on the risks of using Base64 encoding in scripts and encourage the use of clear, readable code. 36 - triage recommendations: |-Possible Actions for Validating and Investigating Malicious Activity 1. Review logs for PowerShell execution events to identify any suspicious 'Invoke-' calls. 2. Analyze the Base64 encoded strings to determine their decoded content and intent. 3. Check for unusual patterns or anomalies in the PowerShell command execution history. 4. Correlate the identified PowerShell activity with known threat intelligence to assess potential risks. 5 Threatingto the course of the DowenShell execution to determine if it originated from a legitimate user or proces

Supercharge into Roota

Turn a platform-specific rule or query into a Roota rule and enrich it with metadata using SOC Prime's proprietary algorithms and AI.

- Al input on possible false positives and triage recommendations (only metadata is used for prompting)
- Adding possible log sources if they were not specified in the original content.
 Additionally, the audit section is filled that specifies what logging service should be enabled to have the logs required and how to enable it
- Prediction of relevant MITRE ATT&CK techniques and sub-techniques with a machine learning model

Convenient Detection Code Editor

Q	Detection Rules				Sigma		~ ~		
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	date: 2023-04-04		3)						
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10 -									
11 - 12 -									
13	- command and scr								
14	- attack. (attack.t1)	259 #Command	and Scripting	Interpreter		ATT&CK			
15	- detecti attack.tl				: PowerShell:	ATT&CK			
16 -						ATT&CK			
17	category: attack.t10	059.003 #Com	maand Scripti	ing Interpreter:	Windows Command She	ATT&CK			
18	product: \attack.t1					ATT&CK			
19 -	detection: attack.t1					ATT&CK			
20 -	selection attack.t1					ATT&CK			
21 - 22	Image e attack.t10 - \bcdedit.exe	059.007 #Com	mand and Scrip	ting Interpreter	: JavaScript:	ATT&CK			
22	- \net.exe								
24	- \net1.exe								
25	- \netsh.exe								
26	- \wevtutil.exe								
27	- \vssadmin.exe								
28	CommandLine conta:		11'						
29	condition: selection	n							
30 -									
31	– Unlikely								

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Convenient Detection Code Editor

Uncoder AI is an IDE for detection engineering. Any IDE starts with a convenient code editor.

- Language-specific syntax highlighting
- Automatic language detection
- Sigma and Roota templates
- Upload from file
- Code autocomplete including MITRE ATT&CK and log sources from all

Sigma rules in Threat Detection Marketplace

Search Threat Detection Marketplace

In production

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