

Be Secure. Be Resilient.

Synthesizing Threat-Informed Defense: When **Cloud Attack Emulation Meets Detection** Engineering

> Kennedy Torkura Co-Founder & CTO Mitigant



About Me

- CTO/co-founder @Mitigant
- 12+ years in cyber security
- Various cloud security positions
- One of the pioneers of Security Chaos Engineering
- AWS Community Builder





Agenda

- Threat-Informed Defense
- Three Pillars of Threat-Informed Defense
- Adversary Emulation
- Cloud Attack Emulation
- Use Case: Validating Cloud Threat Detection
- Demo of Mitigant Cloud Attack Emulation



Cybersecurity: Low Signals to Noise Ratio

- Cybersecurity is a NOISY domain.
- Sifting SIGNALs from NOISE is one of the most challenging aspects of cybersecurity.
- It is comparable to the needle in the

haystack problem.

• SIGNALs must be efficiently sifted from noise in order enable effective defenses.





Threat-informed defense is the systematic application of a deep understanding of adversary tradecraft and technology



https://mitre-engenuity.org/cybersecurity/



to improve defenses.

- MITRE ENGENUITY

Pillar 01: Defensive Measures

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MITRE ATT&CK is a globally-accessible knowledge base of adversary tactics and techniques based on real-world observations.



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5) mains (3) m-Owned		Supply Chain Compromise (3) Trusted Relationship Valid Accounts (4)	Task/Job (5)Serverless ExecutionShared ModulesSoftware Deployment ToolsSystem Services (2)User Execution (3)Windows Management Instrumentation	Create or Modify System Process (4) Event Triggered Execution (16) External Remote Services Hijack Execution Flow (12) Implant Internal Image Modify Authentication Process (8) Office Application Startup (6) Power Settings	Modification (2) Escape to Host Event Triggered Execution (16) Exploitation for Privilege Escalation Hijack Execution Flow (12) Process Injection (12) Scheduled Task/Job (5)	Exploitation for Defense Evasion File and Directory Permissions Modification (2) Hide Artifacts (11) Higack Execution Flow (12) Impair Defenses (11) Impersonation Indicator Removal (9) Indirect Command Execution Masquerading (9) Modify Authentication Process (8)	Authentication Process (8)IMulti-Factor Authentication InterceptionIMulti-Factor Authentication Request GenerationINetwork SniffingIOS Credential Dumping (8)ISteal Application Access TokenISteal or Forge Authentication CertificatesI	Debugger Evasion Device Driver Discovery Domain Trust Discovery File and Directory Discovery Group Policy Discovery Log Enumeration Network Service Discovery Network Share Discovery Network Shiffing Password Policy Discovery Peripheral Device	Software Deployment Tools Taint Shared Content Use Alternate Authentication Material (4)	Repository (2)Data from Information Repositories (3)IData from Local SystemData from Network Shared DriveData from Removable MediaData Staged (2)IIEmail Collection (3)IIInput Capture (4)IIScreen CaptureI	Fallback ChannelsIngress Tool TransferMulti-Stage ChannelsMulti-Stage ChannelsNon-Application Layer ProtocolNon-Standard PortProtocol TunnelingProxy (4)Remote Access SoftwareTraffic Signaling (2)II	Exfiltration Over Web Service (4) Scheduled Transfer Transfer Data to Cloud Account

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14 techniques	
Account Access Removal	
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Endpoint Denial of Service ₍₄₎	11
Financial Theft	
Firmware Corruption	
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Network Denial of Service ₍₂₎	11
Resource Hijacking	
Service Stop	
System Shutdown/Reboot	

Pillar 01: Defensive Measures

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Matrices (Technological Categories)

- Enterprise Matrix : 14 Tactics & 234 Techniques
- Mobile Matrix
- ICS Matrix



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Resource Hijacking	
Service Stop	
System Shutdown/Reboot	

MITRE ATT&CK Matrix for Enterprise

Reconnaissance	Resource Development 8 techniques	Initial Access	Execution	Persistence 20 techniques	Privilege Escalation 14 techniques	Defense Evasion 43 techniques	Credential Access	Discovery 32 techniques	Lateral Movement 9 techniques	Collection	Command and Control 17 techniques	Exfiltration 9 techniques	Imp 14 teck
Active Scanning (3)	Acquire Access	Content Injection	Cloud Administration	Account Manipulation (6)	Abuse Elevation Control	Abuse Elevation Control Mechanism (5)	Adversary-in- the-Middle (3)	Account Discovery (4)	Exploitation of Remote	Adversary-in- the-Middle (3)	Application Layer	Automated Exfiltration (1)	Account A Removal
Gather Victim Host Information (4)	Acquire Infrastructure (8)	Drive-by Compromise	Command Command and	BITS Jobs	Access Token	Access Token Manipulation (5)	Brute Force (4)	Application Window Discovery	Services	Archive Collected	Protocol (4)	Data Transfer Size Limits	Data Destr
Gather Victim Identity Information (3)	Compromise Accounts (3)	Exploit Public-	Scripting Interpreter (9)	Boot or Logon Autostart	Manipulation (5)	BITS Jobs	Credentials from Password	Browser Information Discovery	Spearphishing	Data (3)	Through Removable Media	Exfiltration	Data Encry Impact
Gather Victim Network	Compromise Infrastructure (7)	Application	Container Administration	Boot or Logon	Manipulation (6)	Build Image on Host	Exploitation for	Cloud Infrastructure Discovery	Transfer	Automated	Content	Alternative Protocol (3)	Data Manipulati
Information (6)	Develop Capabilities (a)	External Remote Services	Command Deploy Container	Initialization Scripts (5)	Boot or Logon Autostart	Debugger Evasion	Credential Access	Cloud Service	Remote Service	Collection	Injection	Exfiltration	Defaceme
Information (4)	Establish	Hardware	Exploitation for	Browser Extensions	Boot or Logon	Files or Information	Forced Authentication	Cloud Service	Hijacking (2)	Session Hijacking	Encoding (2)	Channel	Disk Wipe
Phishing for Information (4)	Accounts (3) Obtain	Additions Phishing (4)	Client Execution	Compromise Client Software	Initialization Scripts (5)	Deploy Container	Forge Web Credentials (2)	Discovery Cloud Storage Object	Remote Services (8)	Clipboard Data	Data Obfuscation (3)	Over Other Network	Endpoint D Service (4)
Search Closed Sources (2)	Capabilities (6)	Replication	Communication (3)	Binary	Create or Modify System	Domain Policy		Discovery Container and	Replication Through	Data from Cloud Storage	Dynamic Resolution (3)	Medium (1)	Financial T
Search Open Technical	Capabilities (6)	Removable Media	Scheduled	Account (3)	Domain Policy	Execution Guardrails (1)	Modify	Resource Discovery	Media	Data from Configuration	Encrypted Channel (2)	Over Physical I Medium (1)	Corruption
Databases (5) Search Open		Supply Chain	Task/Job (5)	Create or Modify System	Modification (2)	Exploitation for	Authentication Process (8)	Debugger Evasion	Software Deployment Tools	Repository (2)	Fallback	Exfiltration Over Web	Inhibit Sys Recovery
Websites/Domains (3)		Trusted	Execution	Event Triggered	Event Triggered	File and Directory	Multi-Factor Authentication	Domain Trust	Taint Shared	Information Repositories (3)	Ingress Tool	Service (4)	Network D Service (2)
Websites		Valid	Shared Modules Software	Execution (16) External Remote	Execution (16) Exploitation for	Modification (2)	Multi-Factor	File and Directory	Use Alternate	Data from Local System	Multi-Stage	Transfer	Resource Hijacking
		Accounts (4)	Deployment Tools	Services	Privilege Escalation	Hide Artifacts (11)	Authentication Request	Discovery Group Policy Discovery	Authentication II Material (4)	Data from	Channels	Transfer Data to Cloud	Service Sto
			User Execution (3)	Execution Flow (12)	Hijack Execution	Flow (12)	Network	Log Enumeration		Shared Drive	Layer Protocol	Account	System Shutdown
			Windows Management	Implant Internal Image	Flow (12) Process	Impair Defenses (11)	OS Credential	Network Service Discovery		Data from Removable Media	Non-Standard Port		
			Instrumentation	Modify	Injection (12)	Indicator Removal (9)	Dumping (8)	Network Share		Data Staged (2)	Protocol Tunneling		
				Process (8)	Task/Job (5)	Indirect Command Execution	Application Access Token	Network Sniffing		Email Collection (3)	II Proxy (4)		
				Office Application	Valid Accounts (4)	Masquerading (9)	Steal or Forge	Password Policy		Input Capture in	Remote Access Software		
				Power Settings		Modify Authentication Process (8)	Certificates	Peripheral Device		Screen Capture	Traffic Signaling (2)		



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Pillar 02: Cyber Threat Intelligence

Threat information that has been aggregated, transformed, analyzed interpreted, or enriched to provide the necessary context for decision-making.

MITRE

GROU Scattered SideCopy Sidewinde Silence Silent Libra SilverTerrie Sowbug Stealth Fal Strider Suckfly TA2541 TA459 TA505 TA551 TeamTNT TEMP.Vele The White Threat Gro Threat Gro Thrip Tonto Tear Transpare



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	Tha	nk you to SOC Pi	rime for becoming AT	F&CK's first Be	enefactor. To join the	m, or learn mo	re about	this program vi	sit our Ben	efactors page.	
Home > 0	Groups > S	cattered Spider									
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Scattered managem companie attempted	l Spider is a nent and bu es. During o d to bypase	a cybercriminal g usiness-process campaigns Scatt s popular endpoi	roup that has been ac outsourcing (BPO) firr ered Spider has levera nt security tools. ^{[1][2][3]}	tive since at l ns as well as ged targeted	east 2022 targeting telecommunications social-engineering te	customer relation and technolog echniques and	onship Y	ID: G10 (i) Assoc Versio Create	015 iated Grou n: 1.0 ed: 05 July	I ps : Roasted 0kta 2023	pus
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C0027	C0027	June 2022 ^[3]	December 2022 ^[3]	[3]	Account Discovery: Cloud Account, Account Discovery: Email Account, Account Manipulation: Additional Cloud Roles, Account Manipulation: Device Registration, Account Manipulation: Additional Cloud Credentials, Data from Cloud Storage, Data from Information Repositories: Sharepoint, Exploit Public-Facing Application, External Remote Services, Gather Victim Identity Information: Credentials, Impersonation, Ingress Tool Transfer, Modify Cloud Compute Infrastructure: Create Cloud Instance, Multi-Factor Authentication Request Generation, Network Service Discovery, Obtain Capabilities: Tool, OS Credential Dumping: DCSync, Permission Groups						









MITRE ATT&CK Navigator

Pillar 03: Testing & Evaluation

MITRE ENGENUITY recommends the use of Adversary emulation for testing and evaluating defenses. Adversary emulation mimics the behaviour of real world threat actors in a safe and repeatable manner.





Why Adversary Emulation ?

- How do we build a resilient defense that is not based on static (and easily evaded) Indicators of Compromise?
- How do we detect, mitigate, respond to, or prevent against threat actor X?
- Are we collecting the right data and run the right queries to detect technique Y?
- How do we build the experience and skills on our team to defend against real-world threats?
- How do we tune our tools and processes to maximize efficacy against real-world threats?





Adversary Emulation Workflow





GitLab Security team's Attack Emulation Workflow

Cloud Attack Emulation

- Adversary emulation for the cloud.
- Efficient of mimicking of real world threat that target cloud-native infrastructure.
- Cloud attack emulation is designed to address cloud-specific challenges.





Detection Engineering

Detection Engineering is an aspect of cybersecurity that focuses on developing, fine-tuning, and maintaining systems designed to identify and alert organizations to potential security threats, breaches, and malicious/suspicious activities.





Detection Development Lifecycle

1	title: AWS CloudTrail Important Change
2	id: 4db60cc0-36fb-42b7-9b58-a5b53019fb74
3	status: test
4	description: Detects disabling, deleting and
5	references:
6	– https://docs.aws.amazon.com/awscloudt
7	author: vitaliy0x1
8	date: 2020/01/21
9	modified: 2022/10/09
10	tags:
11	– attack.defense_evasion
12	- attack.t1562.001
13	logsource:
14	product: aws
15	service: cloudtrail
16	detection:
17	selection_source:
18	eventSource: cloudtrail.amazonaws.co
19	eventName:
20	- StopLogging
21	– UpdateTrail
22	- DeleteTrail
23	condition: selection_source
24	falsepositives:
25	 Valid change in a Trail
26	level: medium

Example Sigma Rule For detecting Several Potentially Malicious Events Against AWS CloudTrail

d updating of a Trail

rail/latest/userguide/best-practices-security.html

om

Example - Validating Detections

Scattered Spider Techniques

- T1555.006

DEFENSIVE MEASURES

Adversary Emulation of Scattered Spider TTPs

Credential from Password Stores: Cloud Secrets Management Stores (T1555.006)

AWS Secrets Manager			2 Kov
Store credentials, API keys, tokens, and other secrets securely	Encry sec	ypted crets ↑	ment
	AWS L Autom rotate se a sch	ambda atically ecrets on redule	
	AWS CloudTrail	Amazon CloudWatch	
	AWS Secrets Manager Store credentials, API keys, tokens, and other secrets securely	AWS Secrets Manager Store credentials, API keys, tokens, and other secrets securely AWS L AWS L Autom rotate se a sch	AWS Secrets Manager Store credentials, API keys, tokens, and other secrets securely AWS Lambda Automatically rotate secrets on a schedule AWS CloudTrail AWS CloudTrail

DataDog CloudSIEM

Emulating The Cloud Attack

CloudTrail Record

"eventTime": "2024-03-17T08:26:34Z", "eventSource": "secretsmanager.amazonaws.com", "eventName": "BatchGetSecretValue", "awsRegion": "eu-central-1", "sourceIPAddress": "84.173.248.182", "requestParameters": { "secretIdList": ["mitigator-X_API_KEY_1BPWKB", "mitigator-X_API_KEY_F5FAZW", "mitigator-X_API_KEY_UHAAWW", "mitigator-X_API_KEY_MVV9EU", "mitigator-X_API_KEY_NTWS23", "mitigator-X API KEY MKQBD1", "mitigator-X_API_KEY_JTWSKU", "mitigator-X API KEY 7FAWMK", "mitigator-X API KEY 7MG88B", "mitigator-X API KEY S2EOR0" },

"userAgent": "aws-sdk-java/1.12.97 Mac_OS_X/13.6.1 OpenJDK_64-Bit_Server_VM/11.0.15+9-LTS java/11.0.15 vendor/Amazon.com_Inc. cfg/retry-mode/legacy",

Undetected Threats!

	Cloud SIEM ~	0	verview		Content Packs	Signals
a	AWS 🙆 GCP	A	Azure			
In	\rightleftharpoons Assumed Role	•	investigate	Mit	igantChaosRolec714f8	

86	tags = [
87	"Domain: Cloud",
88	"Data Source: AWS",
89	"Data Source: Amazon Web Services",
90	"Tactic: Credential Access",
91	"Resources: Investigation Guide",
92	
93	<pre>timestamp_override = "event.ingested"</pre>
94	type = "new_terms"
95	
96	query = '''
97	event.dataset:aws.cloudtrail and event.provider:secretsmanager.amazonaws.
	event.action:GetSecretValue and event.outcome:success and aws.cloudtr
99	not user_agent.name: ("Chrome" or "Firefox" or "Safari" or "Edge" or
100	
101	
102	
103	[[rule.threat]]
104	framework = "MITRE ATT&CK"
105	[[rule.threat.technique]]
106	id = "T1528"
107	<pre>name = "Steal Application Access Token"</pre>
108	<pre>reference = "https://attack.mitre.org/techniques/T1528/"</pre>
109	
110	
111	[rule.threat.tactic]
112	id = "TA0006"
113	<pre>name = "Credential Access"</pre>
114	<pre>reference = "https://attack.mitre.org/tactics/TA0006/"</pre>
115	
116	[rule.new_terms]
117	<pre>field = "new_terms_fields"</pre>
118	<pre>value = ["user.id", "aws.cloudtrail.request_parameters"]</pre>
119	[[rule.new_terms.history_window_start]]
120	<pre>field = "history_window_start"</pre>
121	value = "now-15d"

com and rail.user_identity.session_context.session_issuer.type: Role and "Brave" or "Opera")

https://github.com/elastic/detection-rules/blob/main/rules/integrations/aws/credential_access_new_terms_secretsmanager_getsecretvalue.toml

Resources

- MITRE ATT&CK Cloud Matrix: New Techniques & Why You Should Care (Link)
- Threat Led Attack Emulation (Link)
- Cloud Attack Emulation & Detection Engineering: A Match Made in Heaven (Link)
- Cloud Attack Emulation: Enhancing Cloud-Native Security With Threat-Informed Defense (Link)
- Threat Detection Strategy: A Visual Model (Link)

Thank you for your attention

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@run2obtain

