#### **13TH ANNUAL LEADERSHIP EVENT** CYBER SECURITY cybersecuritysummit.org

# UNLOCKE

TITLE SPONSOR



#cybersecuritysummit #css13

01110001000010 in Star X f

NULL0001000010 ,

0110000100011110

## Three Ways to Use An Observability Pipeline to Transform Your SIEM

# SIEM architecture is holding Cybersecurity teams back!



13th Annual Cyber Security Summit | October 24-26, 2023

in 🗟 🕞 🗙 f



# **Ed Bailey**

Senior Staff Technical Evangelist Cribl, Inc.





13th Annual Cyber Security Summit | October 24-26, 2023 in 🗟 🕨 🕅 f



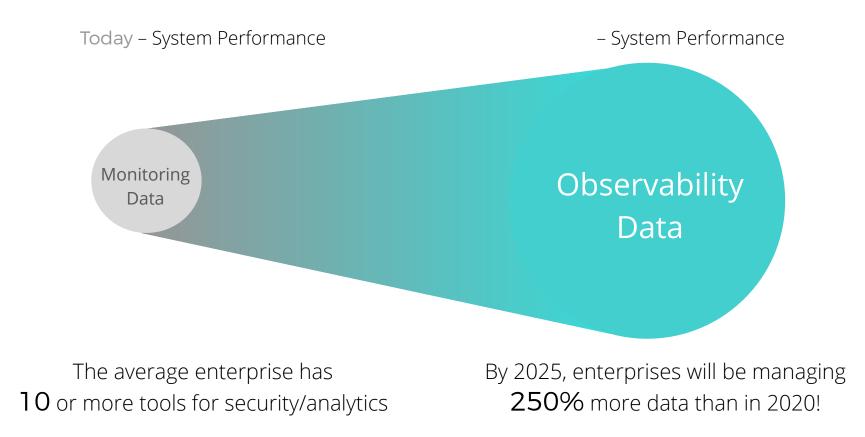
The struggle.



13th Annual Cyber Security Summit | October 24-26, 2023in ⊜ ▶ X f#cybersecuritysummit #css13



## **Distributed Systems Driving Evolution**





13th Annual Cyber Security Summit | October 24-26, 2023 in 🗟 🕞 🕅 f

#cybersecuritysummit #css13

#### RESILIEA UNLOC

## **Organizations are Retaining More & Longer**

in 🗟 🕨 🕅 f

We have a long backlog of data sources to onboard — more than **5 times the capacity** we have!

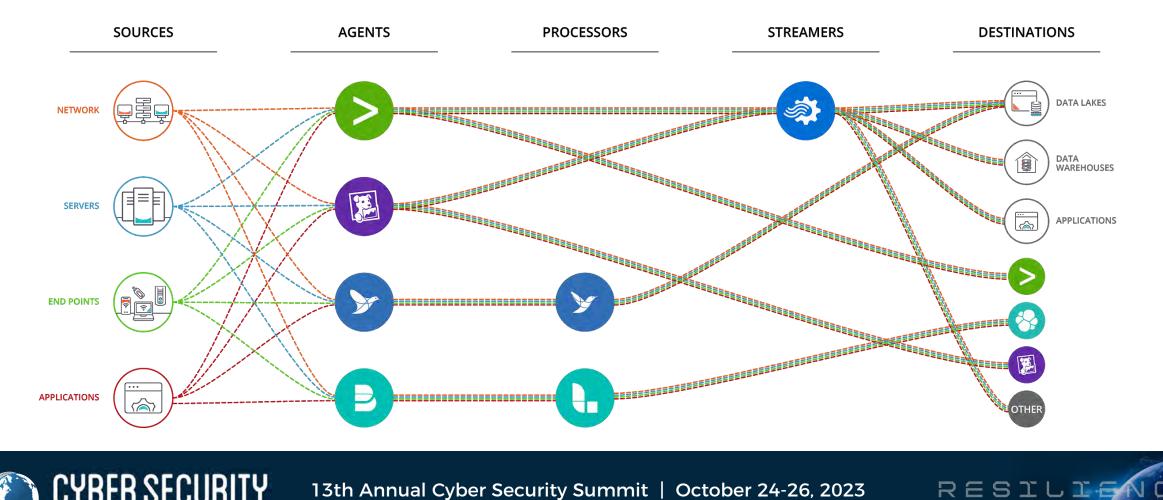




13th Annual Cyber Security Summit | October 24-26, 2023



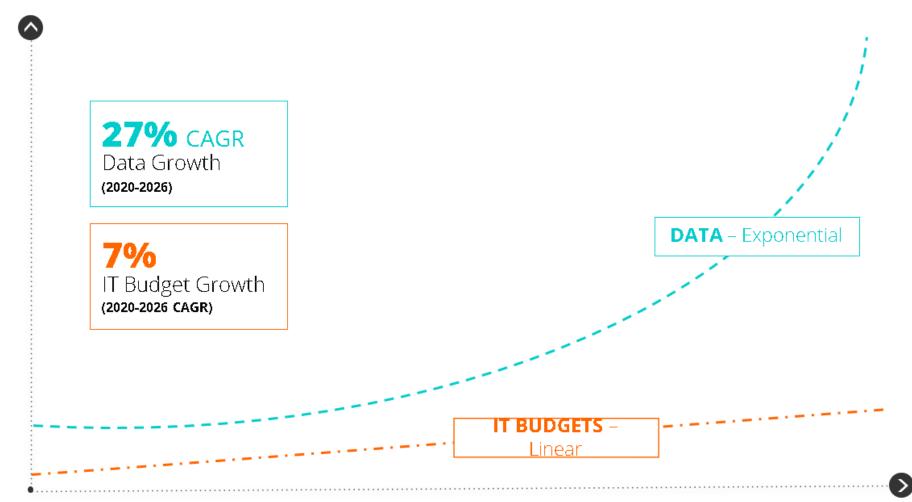
## **Collect Data by Exclusion: Complex & Inflexible**



WWW.cybersecuritysummit.org

13th Annual Cyber Security Summit | October 24-26, 2023in < ▶ × f</th>#cybersecuritysummit #css13

### Budgets Aren't Keeping Up





13th Annual Cyber Security Summit | October 24-26, 2023 in 🗟 🕨 🗙 f

#cybersecuritysummit #css13

#### So Data Management is Evolving...



.....but each requires its **own agent** and **ingestion pipeline**!



13th Annual Cyber Security Summit | October 24-26, 2023in ⊜ ▶ X f#cybersecuritysummit #css13

## Security Monitoring is Evolving...





13th Annual Cyber Security Summit | October 24-26, 2023in < ▶ × f</th>#cybersecuritysummit #css13

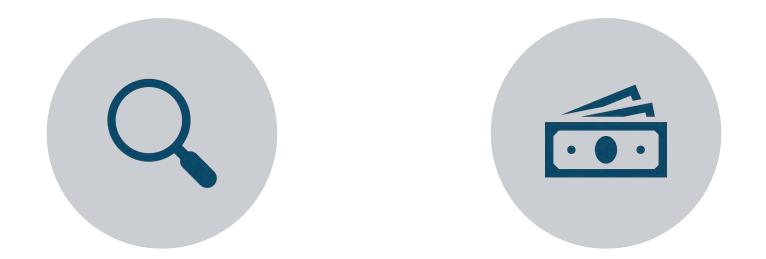
#### Transform your traditional SIEM architecture.



13th Annual Cyber Security Summit | October 24-26, 2023in < ▶ X f</th>#cybersecuritysummit #css13



#### Need to Instrument More While Paying Less



#### FIND THE MIDDLE GROUND

#### **BETWEEN WHAT YOU REQUIRE** AND WHAT YOU CAN AFFORD

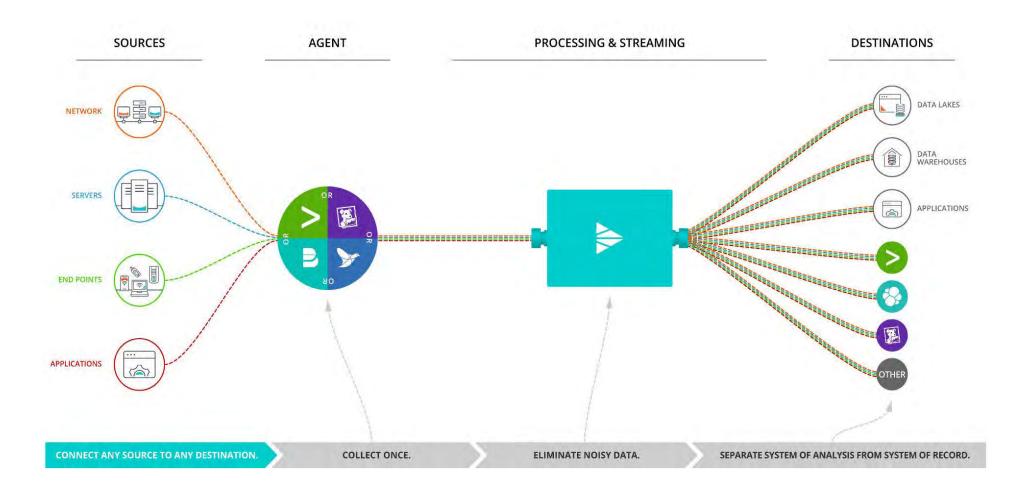
RESILIEN

UNLOC



13th Annual Cyber Security Summit | October 24-26, 2023 in 🗟 🕞 🕅 f

### Next Generation Pipeline Architecture

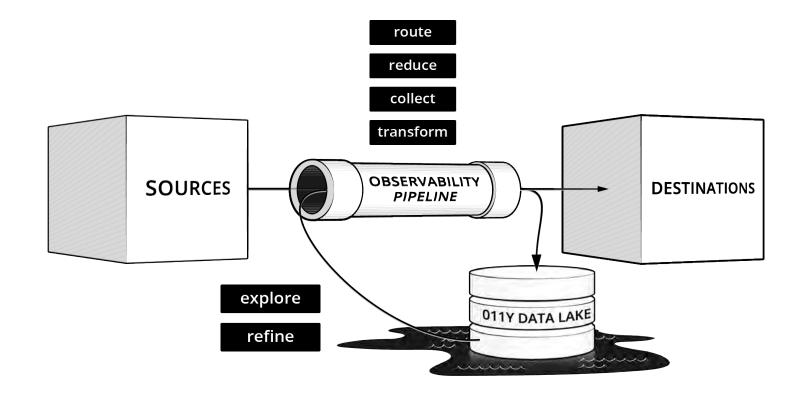




13th Annual Cyber Security Summit | October 24-26, 2023 in 🗟 🕨 🕅 f

#cybersecuritysummit #css13

## The Future of Security Observability



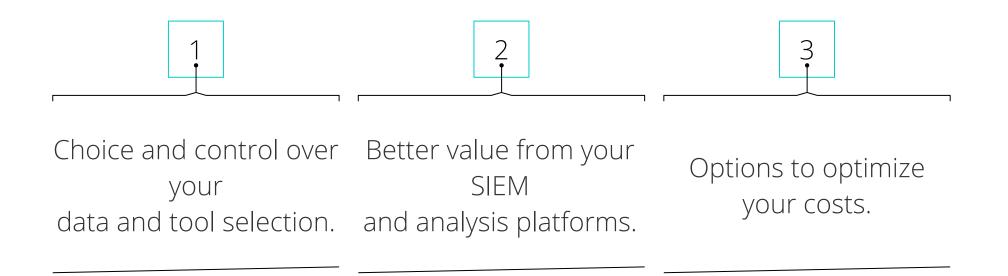


13th Annual Cyber Security Summit | October 24-26, 2023 in 🗟 🕨 🕅 f

#cybersecuritysummit #css13

#### **Benefits of an Observability Pipeline**

in 🗟 🕨 🕅 f

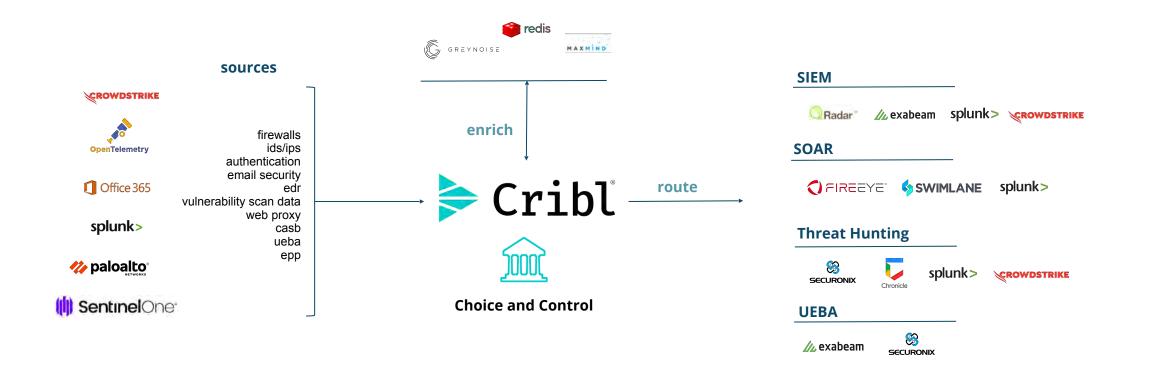




13th Annual Cyber Security Summit | October 24-26, 2023



## Bringing it all together





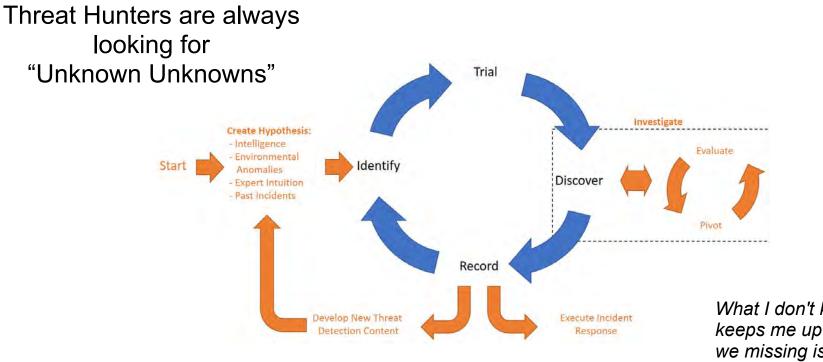
13th Annual Cyber Security Summit | October 24-26, 2023

in 🗟 🕨 🕅 f

#cybersecuritysummit #css13

## **Threat Hunting Is Observability**

in 🗟 🕞 🕅 f



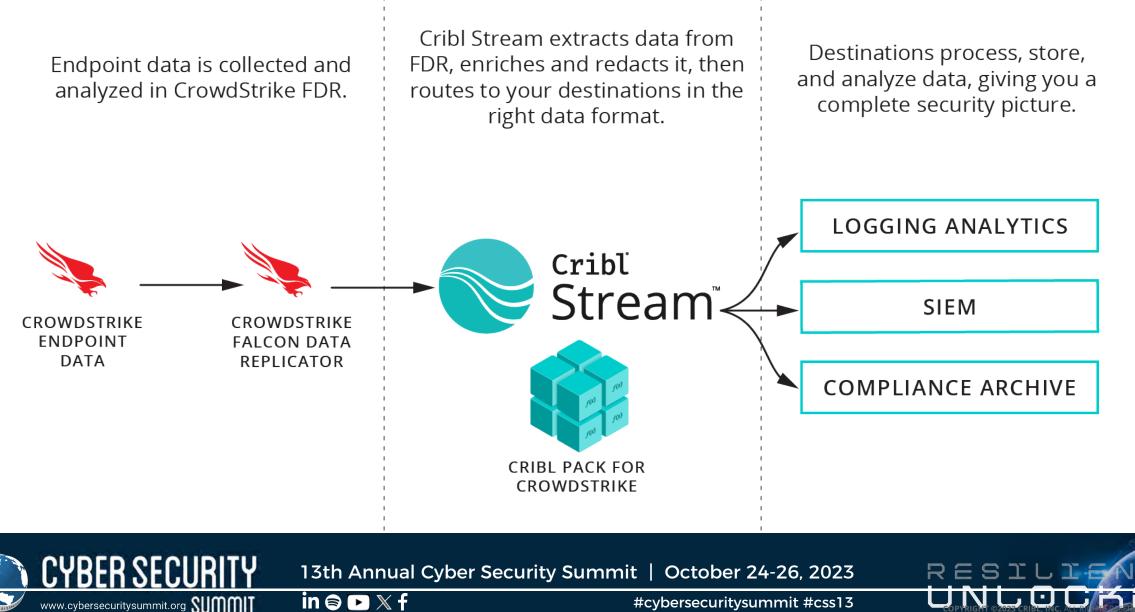
What I don't know about is what keeps me up at night. What are we missing is what scares me. IR Lead Fortune 100 financial



13th Annual Cyber Security Summit | October 24-26, 2023

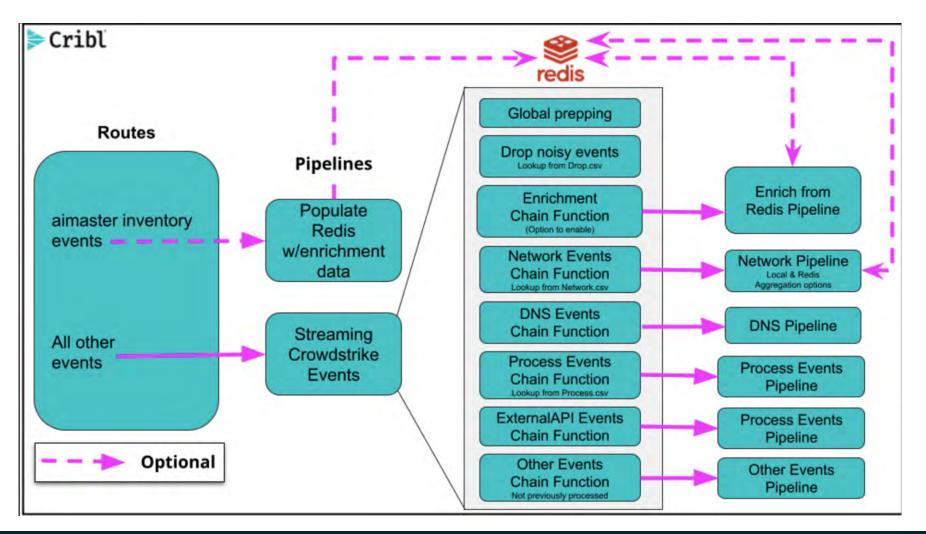
#cybersecuritysummit #css13

#### CrowdStrike & Cribl Architecture



#### CrowdStrike FDR Cribl Pack Workflow

in 🗟 🕨 🕅 f

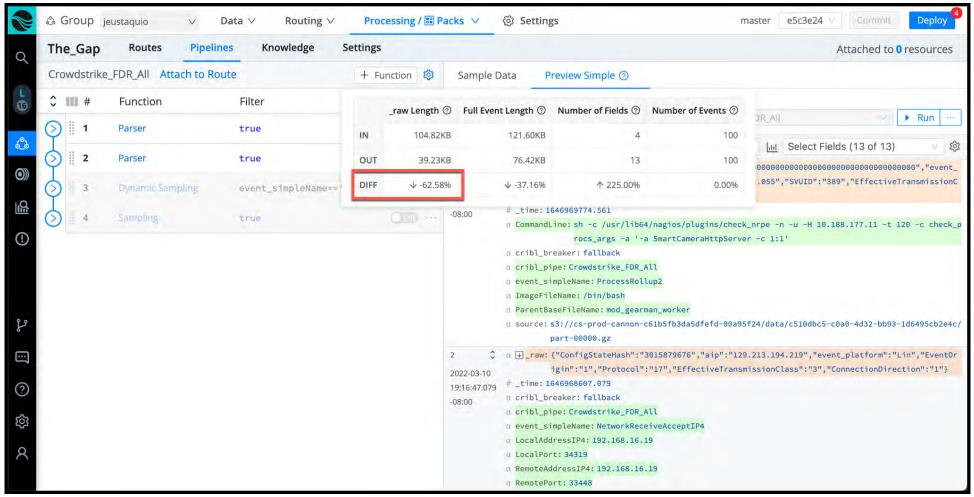




13th Annual Cyber Security Summit | October 24-26, 2023

#cybersecuritysummit #css13

## Less Data – Better Data



**CYBER SECURITY** www.cybersecuritysummit.org

13th Annual Cyber Security Summit | October 24-26, 2023 in 🗟 🕨 🕅 f

#cybersecuritysummit #css13

#### Common Security Data Use Case

CYBER SECURITY

www.cybersecuritysummit.org

IIII #	Function	Description	Filter	⊚ All <del>•</del>	∽ Sample	data file	Pipeline								
1	Comment	Description: This pipeline reduce XML			sysmol	n-clean.log.json	✓ → Sysmon_WindowsXMLEVent	s v	🕨 Run \cdots						
2	Comment	Please enable Descriptions - (Select top	Descriptions - (Select top			IN OUT									
)    3	Comment	The XML Processing group turns the _r			1 2022-02-18 11:15:48.729	<pre>a _raw: <event xmlns="http://schemas.microsoft.com/win/2004/08/events/event"><system><provider guid="15770385f=222a-43e0=bf4c=66f5698ffbd9}" name="Microsoft&lt;br&gt;ndows=Sysmon"></provider>Event1D14/Event1D1</system></event></pre>									
4	Eval	e brackets to remove fields with those va	true	On O	05:00 										
1 5	Flatten		true	On O											
6	Comment	Rename for CIM compliance		***											
7	Rename	rename parent events	true	On 🔿 …											
8	Rename	rename xpects for Sysmon sourcetype	true	On 🔿 …											
9 11 9	Parser		true	<u>On O</u>		<pre>25b-6285-633c-920000000000}</pre> //Data> <data name="LogonId">bx923c6d/Data&gt;<data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><data><dat< td=""></dat<></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data></data>									
10	Serialize		true	On 🔿 …											
11	Eval		true	<u>On O</u>		<pre>Show less # _time: 1645200948.729 a cribl_breaker: Break on newlines a host: ACARD-PCBTTQB8 a index: sysmon a source: WinEventLog:Microsoft-Windows-Sysmon/Operational a sourcetype: XmlWinEventLog:Microsoft-Windows-Sysmon/Operational a _raw: <event xmlns="http://schemas.microsoft.com/win/2804/88/events/event"><system><provider name="Microsoft.com/win/2804/88/events/event"><system><provider name="Microsoft.com/win/2804/88/events/events/event"><system><provider 0x80000000000000'].includes(<="" name="Microsoft.com/win/2804/88/events/event&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;12&lt;/td&gt;&lt;td&gt;Comment&lt;/td&gt;&lt;td&gt;Use Eval to drops specific fields&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;•••&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;13&lt;/td&gt;&lt;td&gt;Eval&lt;/td&gt;&lt;td&gt;Exclude Keywo but show anything else&lt;/td&gt;&lt;td&gt;[" td=""><td>On 🔿 …</td></provider></system></provider></system></provider></system></provider></system></provider></system></provider></system></provider></system></provider></system></provider></system></provider></system></provider></system></provider></system></provider></system></provider></system></provider></system></provider></system></provider></system></provider></system></event></pre>					On 🔿 …				
14	Comment	Set Index, Source and SourceType		•••											
15	Eval	Set your metadata here	true	On O							2022-02-18 11:15:48.729 -05:00	ndows-Sysmon' Guid='{5770385f-c22a-43e0-bf4c-86f5698ffbd9}'/> <eventid>5</eventid> <version>3&lt; Show more</version>			
												<pre># _time: 1645200948.729 a cribl_breaker: Break on newlines a host: LLECOM-BC8YMH3 a index: sysmon a source: WinEventLog:Microsoft-Windows-Sysmon/Operational</pre>			
							crosoft-Windows-Sysmon/Operational								

13th Annual Cyber Security Summit | October 24-26, 2023 in 🗟 🕨 🕅 f

#cybersecuritysummit #css13

## RESILIC UNLOCK

#### **Bad Data - Difficult Detections**

🗈 \_raw: <Event xmlns='http://schemas.microsoft.com/win/2004/08/events/event'><System><Provider Name='Microsoft 🗍 ndows-Sysmon' Guid='{5770385f-c22a-43e0-bf4c-06f5698ffbd9}'/><EventID>1</EventID><Version>5</Version><Lev 2022-02-18 el>4</Level><Task>1</Task><Opcode>0</Opcode><Keywords>0x800000000000000</Keywords><TimeCreated SystemTim 11:15:48.729 e='2022-02-18T07:08:14.7541674Z'/><EventRecordID>18580</EventRecordID><Correlation/><Execution ProcessID -05:00 ='32280' ThreadID='2836'/><Channel>Microsoft-Windows-Sysmon/Operational</Channel><Computer>ACARD-PC0TTQB 8.testing.net</Computer><Security UserID='S-1-5-18'/></System><EventData><Data Name='RuleName'>-</Data><D</p> ata Name='UtcTime'>2022-02-18 07:08:14.505</Data><Data Name='ProcessGuid'>{020511a9-45de-620f-1c98-000000 005300}</Data><Data Name='ProcessId'>22824</Data><Data Name='Image'>C:\Program Files (x86)\Common Files\A dobe\ARM\1.0\AdobeARM.exe</Data>CData Name='FileVersion'>1.824.45.8876</Data>CData Name='Description'>Ado be Reader and Acrobat Manager</Data><Data Name='Product'>Adobe Reader and Acrobat Manager</Data><Data Nam e='Company'>Adobe Inc.</Data><Data Name='OriginalFileName'>AdobeARM.exe</Data><Data Name='CommandLin e'>"C:\Program Files (x86)\Common Files\Adobe\ARM\1.0\AdobeARM.exe"</Data><Data Name='CurrentDirectory'> C:\WINDOWS\system32\</Data><Data Name='User'>testing.net\testmon</Data><Data Name='LogonGuid'>{020511a9-b 25b-6205-6d3c-920000000000}</Data><Data Name='LogonId'>0x923c6d</Data><Data Name='TerminalSessionId'>1</D ata><Data Name='IntegrityLevel'>Medium</Data><Data Name='Hashes'>SHA1=CE733FA2825E3789BCE001031CCFFD62324 C4808</Data><Data Name='ParentProcessGuid'>{020511a9-a612-6205-3500-000000005300}</Data><Data Name='Paren tProcessId'>2560</Data><Data Name='ParentImage'>C:\Windows\System32\svchost.exe</Data><Data Name='ParentC ommandLine'>C:\WINDOWS\system32\svchost.exe -k netsvcs -p -s Schedule</Data></EventData></Event> Show less # \_time: 1645200948.729 a cribl\_breaker: Break on newlines d host: ACARD-PCOTTOB8 a index: sysmon a source: WinEventLog:Microsoft-Windows-Sysmon/Operational a sourcetype: XmlWinEventLog:Microsoft-Windows-Sysmon/Operational



13th Annual Cyber Security Summit | October 24-26, 2023in < ▶ × f</th>#cybersecuritysummit #css13

#### Better Data – Better Detections

1 2	0 E_raw:			hint	1					
2022-02-18	a app: C:\Program Files (x86)\Common Files\Adobe\ARM\1.0\AdobeA									
11:15:48.729	<pre>a Channel: Microsoft-Windows-Sysmon/Operational</pre>									
-05:00	a cmdline: "C:\Program Files (x86)\Common Files\Adobe\ARM\1.0\A									
-03.00	a Company: Adobe Inc.									
	a Description: Adobe Reader and Acrobat Manager									
	a dvc: ACARD-PCOTTQB8.testing.net									
	a EventID: 1									
	a EventRecordID: 18580									
	a FileVersion: 1.824.45.8876									
	a Guid: {5770385f-c22a-43e0-bf4c-06f5698ffbd9}									
	a Level: 4									
	a LogonGuid: {020511a9-b25b-6205-6d3c-920000000000}									
	a LogonId: 0x923c6d									
	a Name: Microsoft-Windows-Sysmon									
	a Opcode: 0									
	a DriginalFileName: AdobeARM.exe									
	<pre>a parent_process: C:\WINDOWS\system32\svchost.exe -k netsvcs -p</pre>									
	<pre>a parent_process_guid: {020511a9-a612-6205-3500-000000005300}</pre>									
	a parent_process_id: 2560									
	a ParentImage: C:\Windows\System32\svchost.exe									
	a process_current_directory: C:\WINDOWS\system32\									
	a process_hash: SHA1=CE733FA2825E3789BCE001031CCFFD62324C4808		_raw Length ③	Full Event Length ③	Number of Fields ③	Number of Events ③				
	a process_id: 22824									
	a process_integrity_level: Medium									
	a ProcessID: 32280	IN	218.04KB	253.39KB	7	154				
	a Product: Adobe Reader and Acrobat Manager									
	<pre>a session_id: {020511a9-45de-620f-1c98-000000005300}</pre>									
	a SystemTime: 2022-02-18T07:08:14.7541674Z		146.92KB	183.18KB	7	154				
	a Task: 1	OUT	140.32100	103.1000	,	104				
	a TerminalSessionId: 1									
	a ThreadID: 2836	DIFF	↓ -32.62%	↓ -27.71%	0.00%	0,00%				
	a User: testing.net\testmon									
	a user_id: S-1-5-18									
	a UtcTime: 2022-02-18 07:08:14.505									
	a Version: 5									
	# _time: 1645200948.729									
		a cribl_breaker: Break on newlines								
	a cribl_breaker: Break on newlines									
	a cribl_breaker: Break on newlines a cribl_pipe: Sysmon_WindowsXMLEvents									

a sourcetype: XmlWinEventLog:Microsoft-Windows-Sysmon/Operational



13th Annual Cyber Security Summit | October 24-26, 2023 in 🗟 🕨 🕅 f #cybersecuritysummit #css13

## UNLOC

Bringing it all together.



13th Annual Cyber Security Summit | October 24-26, 2023in ⊜ ▶ X f#cybersecuritysummit #css13



#### Benefits of an Observability Pipeline

in 🗟 🕨 🕅 f

#### **Organize for Success - People and Process still the foundation**

Breakdown organizational Silos



13th Annual Cyber Security Summit | October 24-26, 2023

#cybersecuritysummit #css13

RESILIENCE

Benefits of an Observability Pipeline

in 🗟 🕨 🕅 f

Create a foundation of good data

#### Quality data standards and enforcement are





13th Annual Cyber Security Summit | October 24-26, 2023

#cybersecuritysummit #css13

How to Transform your SIEM Archtecture

## In the next month

Gap analysis and Research

Define requirements

## Over the next 90 days...Build your Plan

Meet with management and EA owner

Look for allies, security, ops, GRC

## Within the next six months...Sell your Plan

Present your proposal to leadership Rinse and Repeat - Don't give up

in 🗟 🕞 🗙 f



13th Annual Cyber Security Summit | October 24-26, 2023



Want to See It for Yourself?

Demo Stream today in our sandboxes!

Sign up for a FREE account!

# Contraction of the second

# Cribl.Cloud

https://sandbox.cribl.io

in 🗟 🕞 🕅 f

https://cribl.cloud



13th Annual Cyber Security Summit | October 24-26, 2023

#cybersecuritysummit #css13



📚 Cribl

Q&A



13th Annual Cyber Security Summit | October 24-26, 2023in ⊜ ▷ X f#cybersecuritysummit #css13



## Thank You

#### Contact Us

Cribl, Inc. 44 Tehama St. San Francisco, CA 94105 Sales Inquiries hello@cribl.io Career Opportunities jobs@cribl.io Join our Community https://cribl.io/community Visit Us http://www.cribl.io





13th Annual Cyber Security Summit | October 24-26, 2023in < ▷ × f</th>#cybersecuritysummit #css13