

How Trellix uses the Open Cybersecurity Framework with Amazon Security Lake

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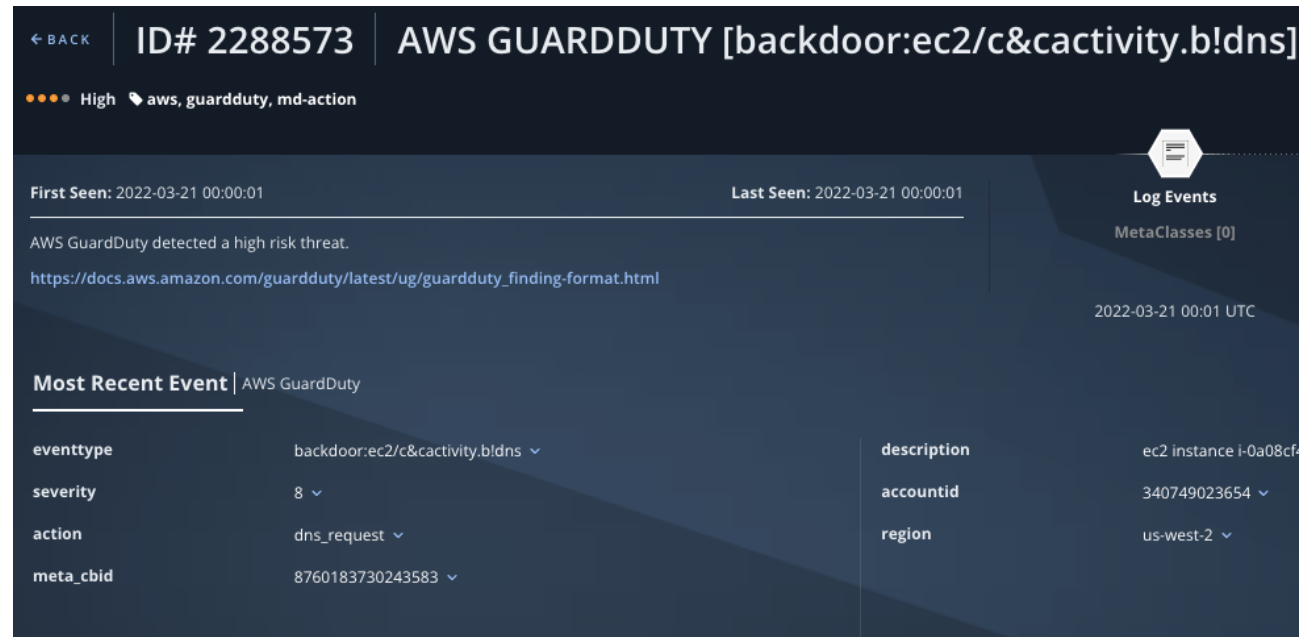
Partner Solutions Architect

Trellix

If you don't have supporting evidence, alerts aren't much to go on. For example:

ec2 instance i-0a08cf4dd7dc2beda is querying a domain name associated with a known command & control server.

1. When was this domain declared malicious?
2. What kind of asset is this local IP?
3. What did the communication look like?



The screenshot displays the AWS GuardDuty console interface. At the top, it shows the event ID 'ID# 2288573' and the event name 'AWS GUARDDUTY [backdoor:ec2/c&cactivity.blDNS]'. The severity is indicated as 'High' with three orange dots. The event is categorized as 'aws, guardduty, md-action'. The 'First Seen' and 'Last Seen' timestamps are both '2022-03-21 00:00:01'. The main message states 'AWS GuardDuty detected a high risk threat.' and provides a link to the finding format documentation: 'https://docs.aws.amazon.com/guardduty/latest/ug/guardduty_finding-format.html'. On the right side, there are buttons for 'Log Events' and 'MetaClasses [0]'. Below the main message, the 'Most Recent Event' section shows a table with the following details:

Most Recent Event AWS GuardDuty			
eventtype	backdoor:ec2/c&cactivity.blDNS	description	ec2 instance i-0a08cf4
severity	8	accountid	340749023654
action	dns_request	region	us-west-2
meta_cbid	8760183730243583		

Getting answers about the alert

1. What data triggered the alert?

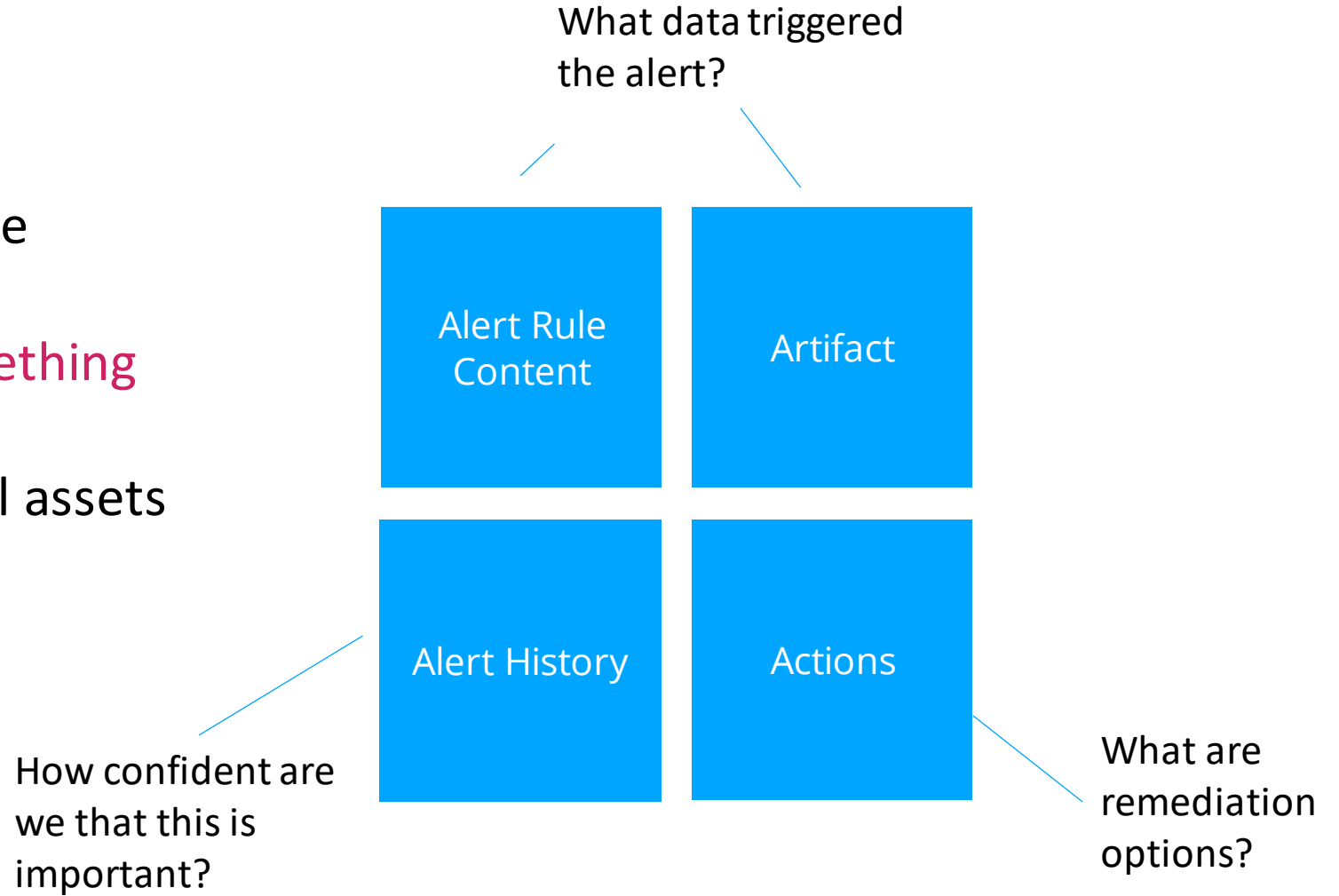
- Alert triggering rule
- Artifact (network capture, file sample, or log sample)

2. How confident are we that something bad happened?

- Rule trigger history across all assets

3. How do we remediate?

- Is this actionable?





Introducing the Open Cybersecurity Framework (OCSSF)

The Open Cybersecurity Framework

Solving the inefficiencies of mismatched security data.



The OCSF is a consortium of major players in the security industry that have joined with AWS to declare how we label security data.

- Analysts no longer waste precious time cleaning and understanding data.
- Security telemetry is ensured to contain the same amount of data, regardless of which vendor created it.
- When data is put in the same place, it adds value without becoming an operational burden.

Amazon Security Lake










Powered by the OCSF

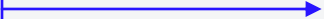
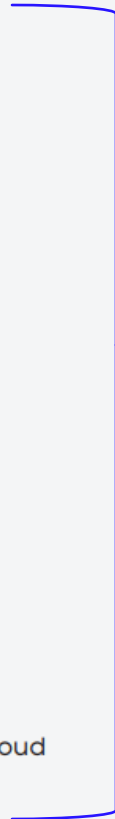


The Amazon Security Lake + OCSF creates a new standard for how customers should expect security telemetry: on their terms.

- All security data stored in Amazon Security Lake is guaranteed to conform to OCSF schemas.
- Customers have full control over the data in the lake and grant access to others to use it.
- Security Lake data is stored in commonly used formats (Apache Parquet) on S3, so customers can choose almost any form of indexing and querying.

Trellix + AWS = Security

-  AWS Network Firewall
-  AWS Security Hub
-  Amazon GuardDuty
-  Amazon Inspector
-  Amazon CloudWatch
-  AWS CloudTrail
-  Amazon Simple Storage Service (Amazon S3)
-  Amazon Route 53
-  Amazon Virtual Private Cloud (Amazon VPC) Flow Logs



Amazon Security Lake



HELIX



Trellix + AWS = Security



Endpoint Security



Email Security



Network Security
and Forensics



Detection
as a Service



Cloudvisory

600+ integrations with
security tools and applications.

HELIX



- Prevent data loss and insider threats
 - Investigate anomalies faster
 - Detect late-stage attacks



AWS Network Firewall



AWS Security Hub



Amazon GuardDuty



Amazon Inspector



Amazon CloudWatch



AWS CloudTrail



Amazon Simple Storage
Service (Amazon S3)



Amazon Route 53



Amazon Virtual Private Cloud
(Amazon VPC) Flow Logs

Get up and running with Trellix Helix and Amazon Security Lake in seconds with our fast and easy setup.

The screenshot shows the Trellix Cloud Connect interface. At the top left is the Trellix logo, and to its right is the text 'CLOUD CONNECT'. Below this is a navigation bar with a button labeled 'Back to Installed Connections'. The main heading is 'Add Connection (1 Available)'. There is a search input field containing the text 'security lake' and a magnifying glass icon. Below the search field, it says 'Jump to Category: Cloud Security (1)'. The main content area is titled 'Cloud Security' and features a single connection card for 'Amazon Security Lake' by 'Amazon, Inc.', which includes a red icon with a white shield and waves, and a dropdown arrow on the right.







Defending the Cloud with XDR

Trellix has 3x more XDR integrations than anyone.




Identity integrations

Identity integrations provide identity models which aid in both detection and response. They are the foundation for identity-based risk scoring in XDR.

	Azure Active Directory (For UEBA)
	Duo Auth
	Entrust Intellitrust
	Okta

- ✓ Flag VIP users based on profile for risk scoring
- ✓ Job descriptions aid analysts during investigations
- ✓ Connecting users to roles provides basis for threat hunting







Viewing: 833 Asset-Based Correlated Alerts

Risk Score	Asset Name	Alerts
	<input type="text" value="Search"/>	
90	 john.doe CEO	2

Business App Integrations

Most modern threats take advantage of business applications, but getting full access to this data is frequently challenging. Customers need apps that work with the XDR ecosystem to:



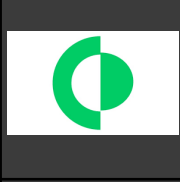

- ✓ Correlate and alert on audit events
- ✓ Track activities with analytics for anomalies
- ✓ Quickly react to threats by making policy changes

	Office 365
	Salesforce Events
	Gsuite Admin Logs
	Teamviewer Events
	Microsoft Teams
	Slack

Cloud Storage Integrations

Cloud isn't just events, there are also many artifacts that need coverage.


- ✓ Malicious file detection
- ✓ Sensitive data identification and control
- ✓ Bulk telemetry integration

	AWS S3
	Azure Blob Storage
	Palo Alto Cortex Data Lake
	Box

Email Integrations

Business email compromise is a serious threat. Understanding how email is being used and correlating alerts with actions is critical.








- ✓ Match phishing alerts with host actions
- ✓ Analyze similar threats and extrapolate for threat hunting
- ✓ Change policies to block threats

	Mimecast
	Proofpoint
	Microsoft Office365

Endpoint Integrations

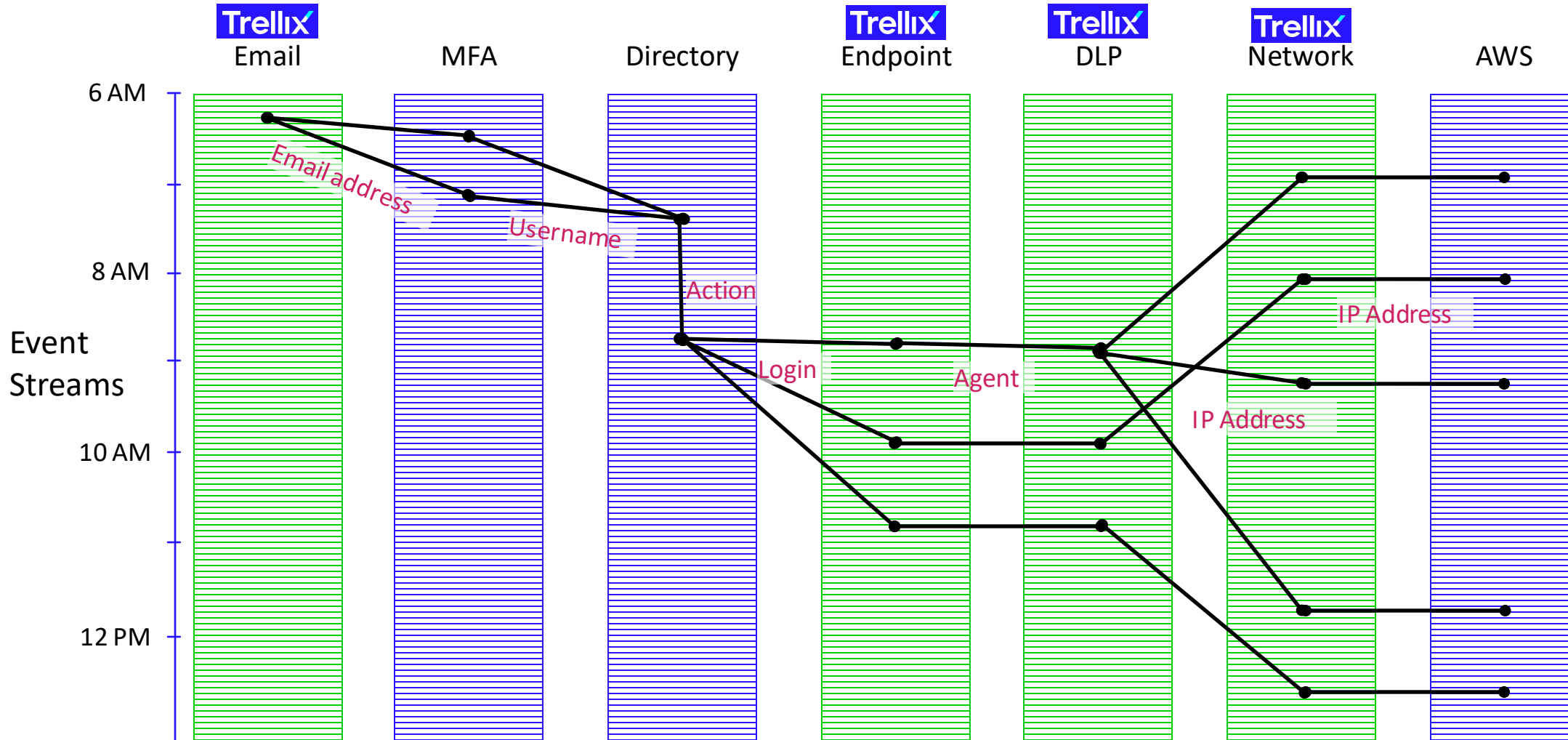
Endpoint plays a crucial role in every enterprise, and the need to integrate it into XDR is self-evident. Here are the key capabilities required:

- ✓ Correlate alerts from multiple hosts
- ✓ Collect EDR trace data for threat hunting
- ✓ Contain compromised hosts
- ✓ Provide offline telemetry

	Cisco
	CyberArk
	CarbonBlack
	CrowdStrike
	Microsoft
	Sophos
	TrendMicro

Our rich XDR platform with partners tells the complete story

Phishing > 2FA reset > Service account creation > Endpoint compromises > Data theft > AWS account actions



Confidential - Do not distribute



Together, analytics become more powerful

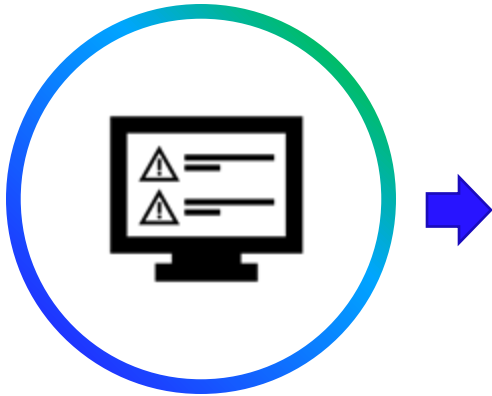
Advanced hunting leverages ML results to go beyond alerting and ML by combining the two across expansive data sets.

The screenshot shows the Trellix HELIX interface. At the top, there is a navigation bar with the Trellix logo and 'HELIX' text, followed by menu items: Dashboards, Investigate, Explore, Configure, Manage, and FireEye. A search bar contains the query: `username=(class=analytics application=abnormal_okta_logon | groupby username) | groupby msg`. Below the search bar, there are filters for 'PAST 24 HOURS' and 'CB: ALL', along with a 'Save as' button. On the right, there are links for 'History', 'Favorites', and 'Syntax Help'. The main content area shows 'Search Results' for the query, with local and UTC timestamps. There are buttons for 'Show Timeline' and 'Show Search Results', and a 'List View' dropdown. Below this, a table titled 'Groupby msg(11)' is displayed, showing the count of messages for various categories. The table has columns for 'Msg', 'Total', and a menu icon.

Msg	Total
user single sign on to app	24
authentication of user via mfa	19
evaluation of sign-on policy	14
user login to okta	13
authenticate user	12

XDR Investigative Tips

Built-in Expert Investigation



TIMELINE AUTOMATIONS **INVESTIGATIVE TIPS** INTEL EVENTS 100 1 AFFECTED ASSETS HISTORY NOTES OS CHANGES

Investigative Tips provide a series of "next steps" for investigating an alert. For FireEye-provided rules, these searches are generated by incident responders and intelligence analysts based on the data they would look for to determine if an alert is a true positive. These searches are not meant to be all-inclusive, but they are designed to provide a place to start.

Expand All Queries

Did any other rules fire for this role? (8h Time Offset) Search not yet run

Did any other rules fire for this IP? (8h Time Offset) Search not yet run

What other sources have accessed this role? (8h Time Offset) Search not yet run

What other CloudTrail actions are there for this role? (1h Time Offset)

srczone	action	srcipv4	srcisp	srccountry	Count
ec2.amazonaws.com	startinstances	114.216.106.130	amazon technologies inc.	united states	200

What other CloudTrail actions are there for this user? (1h Time Offset) Search not yet run

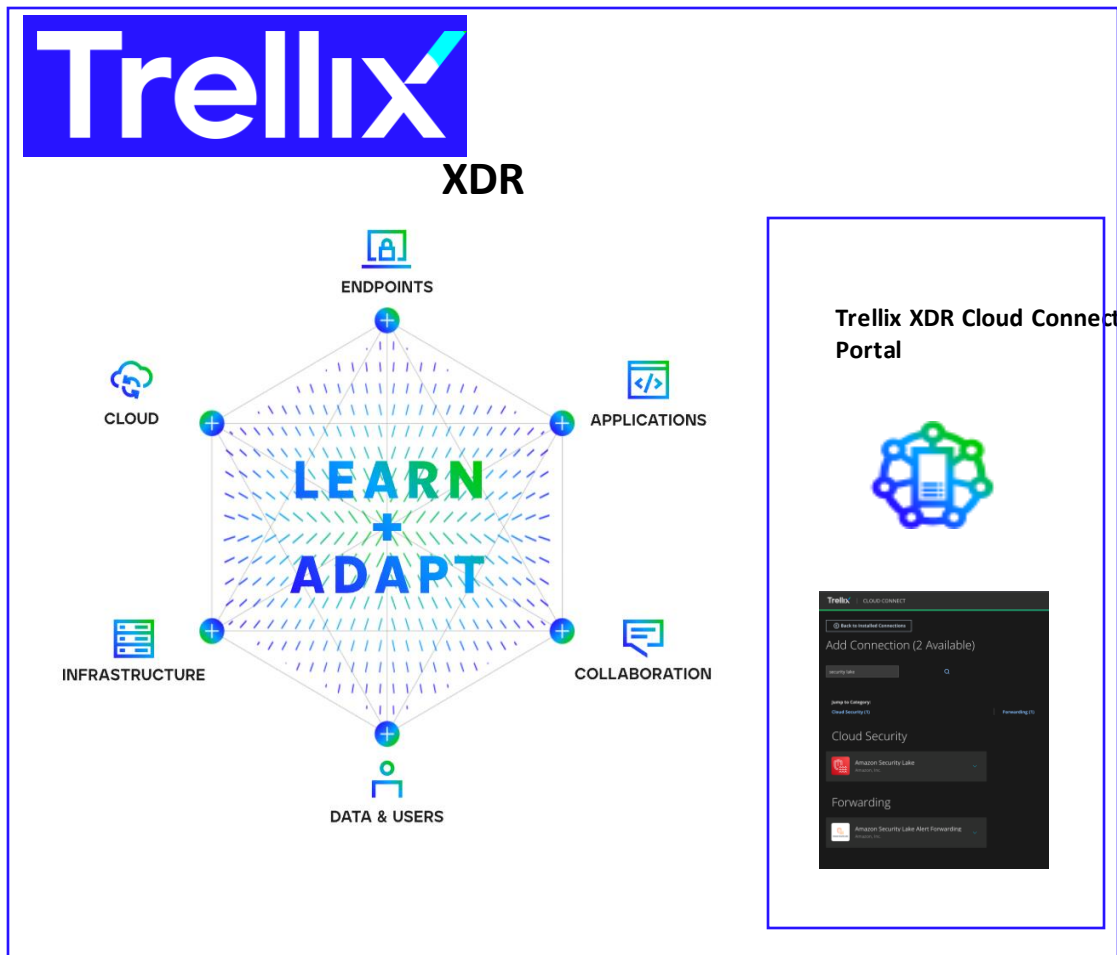
What other CloudTrail actions are there for this API key (if found)? (1h Time Offset) Search not yet run

What other CloudTrail events are there for this IP? (1h Time Offset)

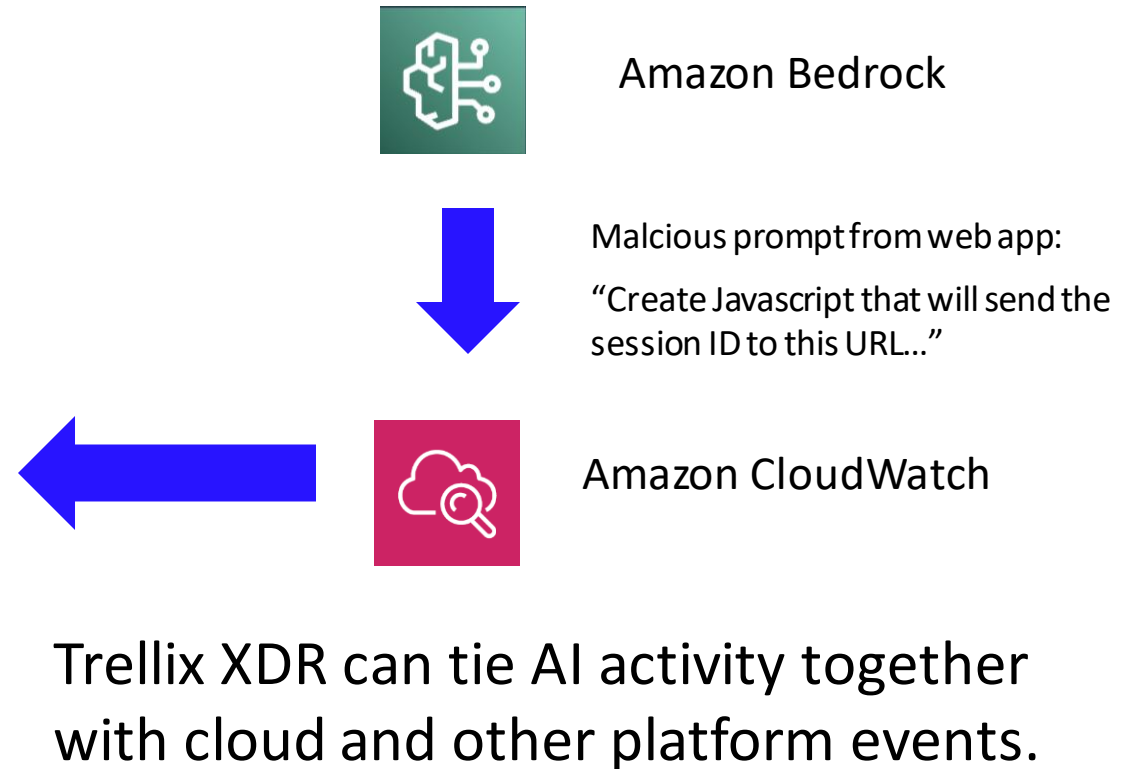
srczone	action	srcipv4	srcisp	srccountry	Count
ec2.amazonaws.com	startinstances	114.216.106.130	amazon technologies inc.	united states	200
s3.amazonaws.com	putbucketacl	114.216.106.130	amazon technologies inc.	united states	2

Trellix Helps Secure Gen AI

Use Trellix XDR to monitor gen AI such as Amazon Bedrock



Example with LLM02: Insecure output handling



Trellix XDR can tie AI activity together with cloud and other platform events.

Figure 1: Joint customers can share security events across Trellix XDR and with Amazon Security Lake, getting complete detection and response capabilities for their AWS environments.



**THANK
YOU!**



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