



THE STATE OF SIEM DETECTION RISK

Quantifying the gaps in MITRE ATT&CK coverage for production SIEMs



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1.0



EXECUTIVE SUMMARY

“Use cases are the core of security monitoring activities. A structured process to identify, prioritize, implement, and maintain use cases allows organizations to align monitoring efforts to security strategy, choose the best solutions and maximize the value obtained from security monitoring tools.”



- Dr. Anton Chuvakin

[Blog post](#)

SIEMs are foundational to the modern SOC, providing the essential role of helping security teams rapidly detect and respond to cyberattacks before they can have a material impact on the business of the organization.

In order to be effective, SIEMs now aggregate log and event data from an exponentially-growing number of data sources across the infrastructure (applications, network and endpoint security tools,

cloud monitoring tools, identity providers, etc.). This data is then analyzed using predefined threat detection rules and queries to identify suspicious or unauthorized behavior.

In this 2nd annual data-driven report, CardinalOps set out to gain visibility into the current state of threat detection coverage in enterprise SOC's.

Using the 190+ adversary techniques in MITRE ATT&CK as the baseline, we found that actual detection coverage remains far below what most organizations expect and what SOC's are expected to provide. In particular, we found that on average:

Enterprise SIEMs **only address**

5 of the top 14



ATT&CK **techniques used by adversaries** in the wild.

Enterprise SIEMs are **MISSING DETECTIONS** for

80%



of all MITRE ATT&CK techniques.

15%

of SIEM rules are **broken and will never fire** due to common issues such as misconfigured data sources and missing fields.



Organizations **disable**

75%

of generic **out-of-the-box**
vendor content due to noisiness
& customization challenges
(e.g., log source types, field names, etc.).

Only

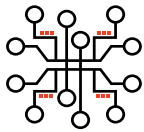
25%

of organizations that forward identity
logs such as Active Directory and Okta
to their SIEM, actually use them in
their detection rules.

(Zero trust, anyone?)

Worse, organizations are often **unaware of the gap** between the theoretical security they assume they have and the actual security they get in practice, creating a false impression of their detection posture.

What are the reasons for this disparity?



Complexity from a constantly increasing number of data sources, attack vectors, and correlation rules. In fact, according to Ponemon, more than [80% of security professionals rate the complexity of their SOC as very high](#), and [less than 40% assess their SOC as highly effective](#).



Constant change in infrastructures, security tools, attack surfaces, adversary techniques, and business priorities (e.g., cloud).



No “one-size-fits-all” — every enterprise is unique, making it impractical to copy-and-paste generic content.



Manual and error-prone processes make it difficult to effectively scale and maintain high-quality detections.



Lack of skilled personnel to understand and develop use cases across diverse scenarios and log source types.

In section 2 of the report, we provide a series of best practice recommendations to help CISOs and detection engineering teams address these challenges, and be more intentional about how detection coverage is measured and continuously improved over time. These recommendations are based on the experience of our in-house security team and SIEM experts like [Dr. Anton Chuvakin](#), Head of Security Solution Strategy at

Google Cloud and former Gartner Research Vice President and Distinguished Analyst.

It is our goal to help the security community move forward in recognizing the importance of bringing automated, repeatable, and consistent processes to detection engineering, and to provide independent benchmarks enabling CISOs and SOC leaders to answer the question “How prepared are we to detect the highest priority threats?”

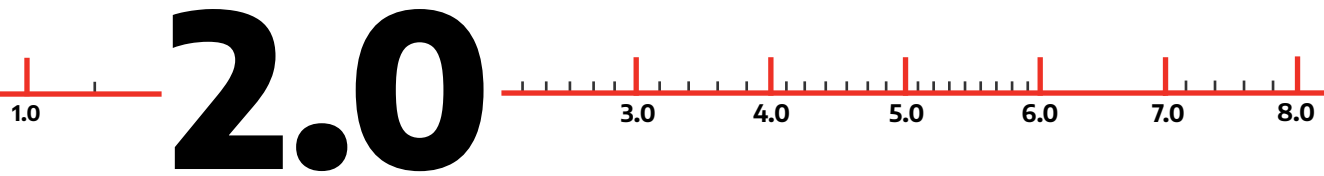
METHODOLOGY

Rather than rely on subjective survey-based data, CardinalOps analyzed configuration data from real-world production SIEM instances to gain visibility into the current state of threat detection coverage in modern SOC.

We examined aggregated and anonymized data across:

- **Diverse verticals** including financial services, manufacturing, media, pharmaceuticals, freight logistics, and MSSP/MDR services
- **Diverse SIEM** solutions including Splunk, Microsoft Sentinel, IBM QRadar, and Sumo Logic
- **14,000+** log sources
- **Thousands** of detection rules
- **Hundreds** of log source types

These organizations represent multibillion dollar, multinational corporations – making this one of the largest recorded samples of actual SIEM data analyzed to date.



2.0

STATE OF DETECTION COVERAGE AS MEASURED BY MITRE ATT&CK

“Organizations need to become more intentional about detection in their SOC. What should we detect? Do we have use cases for those scenarios? Do they actually work? Do they help my SOC analysts effectively triage and respond?”

- Dr. Anton Chuvakin

Head of Security Solution Strategy, Google Cloud

[SANS webinar on “The Future of SIEM”](#)



Here are the insights we developed after analyzing a broad cross-section of real-world SIEM production instances.

2.1 Coverage across all ATT&CK techniques

On average, SIEMs only cover 20% of the [190+ adversary techniques described in MITRE ATT&CK v10](#).¹

2.2 Coverage for top ATT&CK techniques used by adversaries in the wild

On average, SIEMs cover fewer than 5 of the top 14 techniques used by adversaries in the wild, based on 2021 threat intelligence data from [Recorded Future](#), [Red Canary](#), and [Picus Security](#).

These consist of:²

- [T1059](#) Command and Scripting Interpreter
- [T1218](#) Signed Binary Proxy Execution
- [T1543](#) Create and Modify System Process
- [T1053](#) Scheduled Task / Job
- [T1027](#) Obfuscated Files or Information
- [T1105](#) Ingress Tool Transfer
- [T1569](#) System Services
- [T1036](#) Masquerading
- [T1486](#) Data Encrypted for Impact
- [T1082](#) System Information Discovery
- [T1497](#) Virtualization/Sandbox Evasion
- [T1098](#) Account Manipulation
- [T1219](#) Remote Access Tools
- [T1018](#) Remote System Discovery

2.3 % of broken/nonfunctioning SIEM rules

15% of SIEM rules are broken and will never fire, primarily due to fields that are not extracted correctly or log sources that are not sending the required data.

¹V11 was released after this analysis was concluded.

²To be conservative in our analysis, we excluded two techniques that SIEMs are ill-equipped to address: Process Injection and Credential Dumping.

2.4 % of default vendor-supplied detection content that is disabled

On average, 75% of default out-of-the box (OOB) rules provided by SIEM vendors are disabled, due to the difficulty of adapting generic rules to each organization's unique infrastructure, log sources, naming conventions, etc..

2.5 Top log sources with no detections

- The top 3 log sources that are ingested by the SIEM – but not being used for any detections – are identity sources; SaaS productivity suites such as Office 365 and G Suite; and cloud infrastructure log sources.
- In fact, **75% of organizations that forward identity log sources** to their SIEM, such as Active Directory and Okta, do not use them for any detection use cases.
- This appears to be a major opportunity to enhance detection coverage for one of the most critical log sources for strengthening zero-trust.

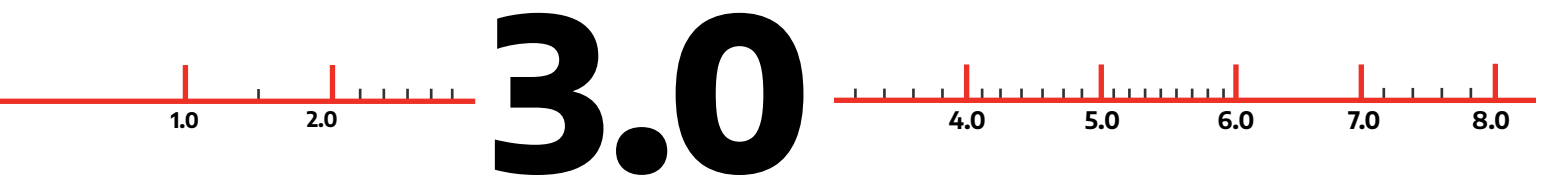
“Contrary to recent opinion, monitoring, detection and response play a critical role in **zero trust** deployments. In many cases, robust visibility controls over identities, access and endpoints are essential to make zero trust a success.”

- **Dr. Anton Chuvakin**

Head of Security Solution Strategy, Google Cloud

[“20 Years of SIEM – SANS Webinar Q&A”](#)





BEST PRACTICE RECOMMENDATIONS

“MITRE is a really good method of categorizing, measuring, and enhancing security operations. Those that are most successful use MITRE to communicate with others in their businesses, to measure processes and success.”



Blog by industry analyst

Here are a series of best practice recommendations for enhancing detection coverage and detection quality in your SOC.

3.1 Review current SIEM processes

- What is the approach for finding false negatives – and what adversary techniques, behaviors, and threats are currently being missed?
- How are use cases managed and prioritized? Typically, we find they're added to the backlog via an ad-hoc process driven by a combination of:
 - Threat analysts
 - Red teaming
 - Breach and attack simulation (BAS) tools
 - Manual pen testing
 - News about the latest high-profile attacks or vulnerabilities
- How are detections developed today and what is the process for turning threat knowledge into detections?
- How long does it typically take to develop new detections?
- Is there a systematic process to periodically identify detections that are no longer functional due to infrastructure changes, changes in vendor log source formats, etc.?

3.2 Become more intentional about how you develop and manage detection content

Focus on effectiveness, coverage, and improvements. Ask your team questions such as:

- What do I need to detect based on our business priorities, crown jewel assets, industry sector, etc.?
- What do I detect today?
- Do I really detect it?
- Do I detect it well?
- Do I triage and respond correctly?
- What is our current coverage compared to adversary techniques most relevant to our organization?
- Are we missing data sources that would improve our coverage in high-priority areas?

3.3 Build or refresh your use case management processes

Choose 3-5 enhancements to address the questions from the last section, with an agreed-upon timeline.

3.4 Measure and continuously improve

- Detection engineering processes are no different than other security and IT management processes. As IT modernizes and uses DevOps and SRE approaches, so should the SOC.
- You can't improve what you can't measure. Many SOC metrics - focused on people, process, and technology - are needed for consistent improvement
- Set organizational goals around how to increase detection coverage and reduce the time to detect non-functioning rules.

“The [kill chain framework](#) was a very popular approach for use case development until the [ATT&CK framework](#) came and expanded upon it. Essentially, this builds on the kill chain with more depth and more value for most use cases today.

I would probably focus my analysis on the [ATT&CK framework](#) and not on the original kill chain model (while keeping my awareness of it, of course).”

- Dr. Anton Chuvakin

Head of Security Solution Strategy, Google Cloud
[“20 Years of SIEM – SANS Webinar Q&A”](#)





HOW CARDINALOPS CAN HELP

“Network defenders do not need 100 percent accuracy in our models to support risk decisions. We can strive to simply reduce our uncertainty about ranges of possibilities. The concept of measurement is not the elimination of uncertainty but the abatement of it. If we can collect a metric that helps us reduce that uncertainty, even if by just a little, then we have improved our situation from not knowing anything to knowing something.”

- Douglas Hubbard

(as reviewed by Rick Howard, former CISO at Palo Alto Networks)

[How to Measure Anything: Finding the Value of ‘Intangibles’ in Business](#)



CardinalOps' cloud-based platform continuously ensures your SIEM/XDR has high-fidelity detections for the adversary techniques most relevant to your business priorities and infrastructure, mapped to the MITRE ATT&CK framework.

Leveraging proprietary analytics and AI-powered, API-driven automation, the platform continuously delivers new detection

content and metrics enabling your SOC team to stay ahead of constant change in the attack surface and threat landscape – plus continuously identify and remediate broken rules and misconfigured log sources – so you can close the riskiest detection gaps that leave your organization exposed.

After connecting to the SIEM/XDR via its API, the service will analyze all rules, alerts, and log source types to:

4.1 Visualize coverage based on MITRE ATT&CK heat map

Provide a coverage heat map based on MITRE ATT&CK for all use cases in your production SIEM/XDR

4.2 Recommend, test, and automatically deploy new rules to close gaps in threat coverage

- Recommend missing rules from a knowledge base of best practice detections to improve threat detection coverage and close gaps in threat coverage
- Enable new rules to be reviewed, tested (versus historical data), and automatically deployed with a single click after approval (or via the API for Git-based CI/CD workflows)
- Customize rules to the organization's field mappings, thresholds, exclusions, and naming conventions

4.3 Identify, test, and automatically remediate broken or noisy rules

- Identify all broken or misconfigured rules (i.e., rules that will never fire due to missing fields, misconfigured log sources, etc.)
- Identify noisy rules that can be tuned to further reduce alert fatigue (e.g., by modifying thresholds and exclusions)
- Recommend remediations to broken or sub-optimum rules
- Enable remediations to be reviewed, tested (versus historical data), and automatically deployed after approval with a single click — or via the API if using Git-based CI/CD workflows

4.4 Enable risk-based prioritization based on organizational requirements

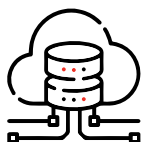
Enable risk-based prioritization by:



Log source type



Adversary group
(APT28, FIN7, etc.)



Platform type (cloud, Windows, Linux, containers, etc.)



High profile attacks
(log4j, SolarWinds, etc.)



Increasing your MITRE ATT&CK
coverage score



Threat severity

4.5 Identify log sources not contributing to threat coverage

- Identify log sources that are ingested but not contributing to threat coverage.
- This information can be used to reduce ingestion costs and/or develop new rules to expand threat coverage by incorporating these log sources.

4.6 Produce independent metrics to measure detection posture and demonstrate continuous improvement

- Help CISOs answer the question “How prepared are we to detect the highest priority threats?”
- Generate independent, board-level metrics to measure SOC effectiveness
- Track continuous improvement over time

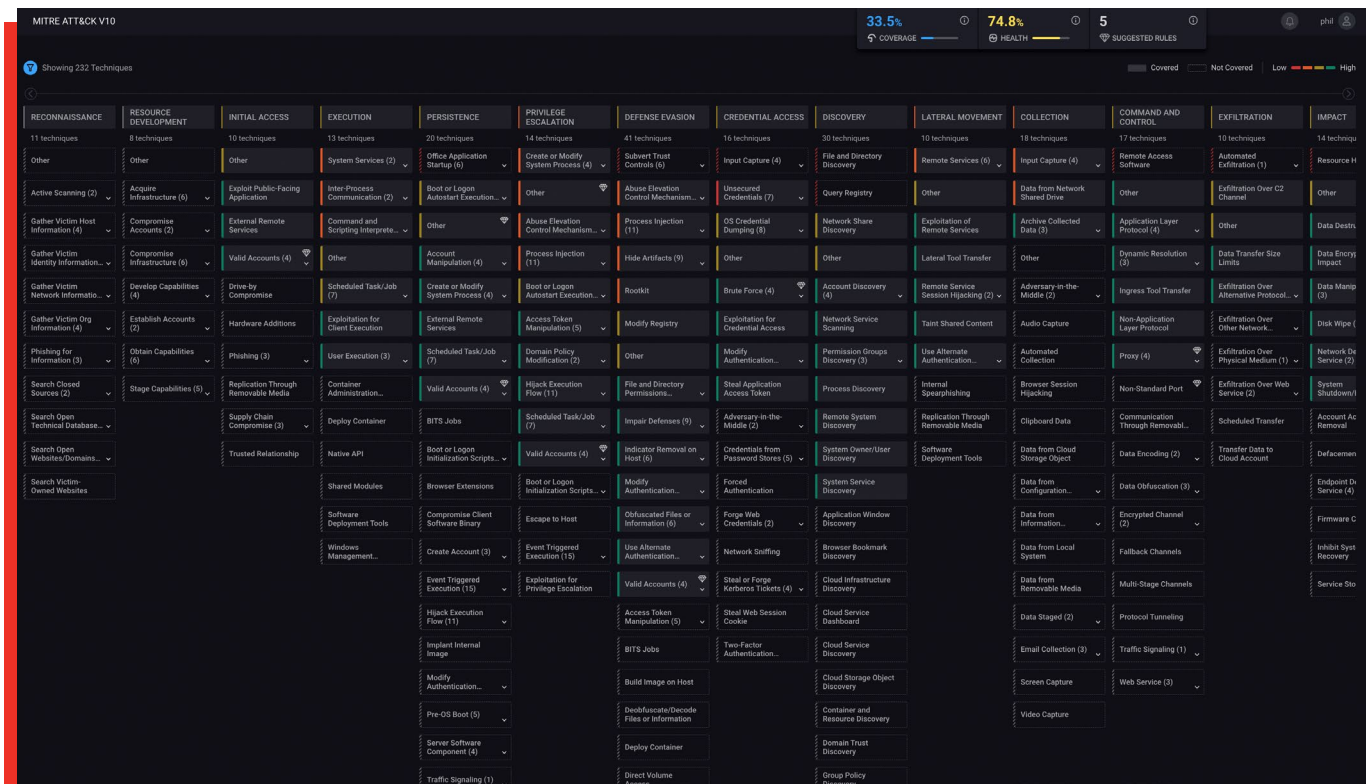


Screenshot Examples

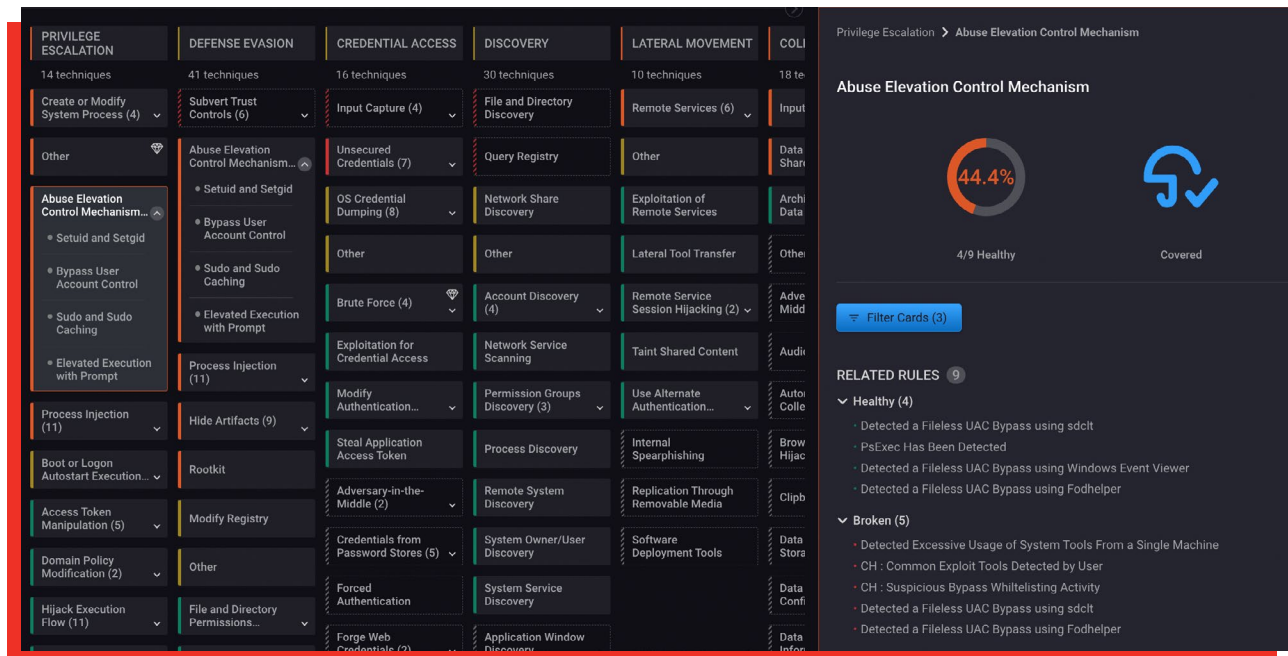
You can also [view a 2-minute demo](#) here.

5.1 MITRE ATT&CK heat map

Map with all ATT&CK techniques color-coded according to health of detection rules. Techniques shown with vertical cross-hatched lines are not covered by any detections.



Map with examples of sub-techniques and broken rules within the technique.



The screenshot displays the CardinalOps interface, showing a map of sub-techniques and broken rules for the 'Abuse Elevation Control Mechanism' technique.

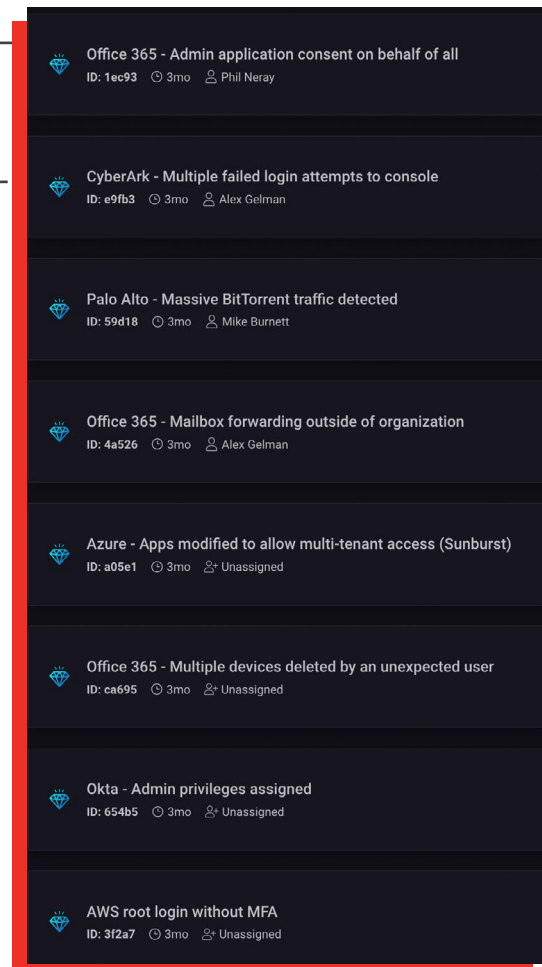
Abuse Elevation Control Mechanism

44.4% (4/9 Healthy)

RELATED RULES (9)

- Healthy (4)**
 - Detected a Fileless UAC Bypass using sdclt
 - PSEXEC Has Been Detected
 - Detected a Fileless UAC Bypass using Windows Event Viewer
 - Detected a Fileless UAC Bypass using Fodhelper
- Broken (5)**
 - Detected Excessive Usage of System Tools From a Single Machine
 - CH : Common Exploit Tools Detected by User
 - CH : Suspicious Bypass Whitelisting Activity
 - Detected a Fileless UAC Bypass using sdclt
 - Detected a Fileless UAC Bypass using Fodhelper

5.2 Recommended rules to close gaps in threat coverage



The screenshot displays a list of recommended rules to close gaps in threat coverage:

- Office 365 - Admin application consent on behalf of all**
ID: 1ec93 | 3mo | Phil Neray
- CyberArk - Multiple failed login attempts to console**
ID: e9fb3 | 3mo | Alex Gelman
- Palo Alto - Massive BitTorrent traffic detected**
ID: 59d18 | 3mo | Mike Burnett
- Office 365 - Mailbox forwarding outside of organization**
ID: 4a526 | 3mo | Alex Gelman
- Azure - Apps modified to allow multi-tenant access (Sunburst)**
ID: a05e1 | 3mo | Unassigned
- Office 365 - Multiple devices deleted by an unexpected user**
ID: ca695 | 3mo | Unassigned
- Okta - Admin privileges assigned**
ID: 654b5 | 3mo | Unassigned
- AWS root login without MFA**
ID: 3f2a7 | 3mo | Unassigned

5.3 Example of recommended best practice rule to close gaps in ATT&CK coverage

→

Office 365 - Admin application consent on behalf of all

ID: 1ec93
3mo
Phil Neray

EXPECTED IMPROVEMENT

COVERAGE

HEALTH

Gain coverage in 1 MITRE technique ▼

Description

Impact Analysis

Rule Definition

Recommendation

MITRE ATT&CK

APT Groups

Rule Definition

```
search index=azuread Operation="Consent to application."
| eval onBehalfOfAllIdx=mvfind('ModifiedProperties{}.Name', 'ConsentContext.OnBehalfOfAll')
| eval onBehalfOfAll=mvindex('ModifiedProperties{}.NewValue', onBehalfOfAllIdx)
| where onBehalfOfAll="True"
| table user,targetName
```

Recommendation

Create a rule to alert on organization-wide consents made by administrators, as these should be rare.

MITRE ATT&CK

TACTICS	TECHNIQUES	SUB TECHNIQUES
Credential Access (TA0006)	Steal Application Access Token (T1528)	

APT Groups

TECHNIQUES	SUB TECHNIQUES	APT GROUPS
Steal Application Access Token (T1528)		APT28 (G0007)

5.4 Description for recommended rule

→

Office 365 - Admin application consent on behalf of all

ID: 1ec93
3mo
Phil Neray

EXPECTED IMPROVEMENT

COVERAGE

HEALTH

Gain coverage in 1 MITRE technique ▼

Description

Impact Analysis

Rule Definition

Recommendation

MITRE ATT&CK

APT Groups

Description

An adversary may trick an administrator into granting consent to a malicious application on behalf of all of the organization's Azure AD users. This can give the adversary full access to their emails and files. This is a known technique used by attackers, see e.g. the [Cofense report from May 2020](#) or an [earlier report](#) from late 2019. Azure Active Directory reports "Consent to application-success" events when consent is granted to an application. This event also indicates if the consent was made by an administrator (ConsentContext.IsAdminConsent) and whether it applies to all users (ConsentContext.OnBehalfOfAll).

5.5 Example of broken rule with remediation

Field 'AccountName' not extracted correctly from sourcetype XmlWinEventLog.

ID: f5773 3mo Unassigned

EXPECTED IMPROVEMENT
COVERAGE HEALTH **+0.64%**
Gain coverage in 3 MITRE techniques

Description Affected Rules Recommendation Impact Analysis

Description

The field 'AccountName' was extracted from XmlWinEventLog with the regular expression:

```
Account\sName(?:.*)\s
```

This regular expression does not match the event payload.

Affected Rules

Below are rules affected by this issue.
Each one of these rules are mapped into the following tactics & techniques:

RULE NAME	MITRE ATTACK TACTIC	TECHNIQUE
MCC: Admin Group Activity	Privilege Escalation (TA0004)	Other
CH: Suspicious Activity for the Same Source (Windows)	Execution (TA0002)	Other
CH: Suspicious Activity for the Same User (Windows)	Execution (TA0002)	Inter-Process Communication (T1559)
	Privilege Escalation (TA0004)	Process Injection (T1055)

Recommendation

Fix the mapping of the 'AccountName' field using the regular expression

```
Account\sName: (.*)\s
```

5.6 Log source types not contributing to detection coverage

No events from multiple Log source types

ID: a5d5f 2d Unassigned Dismissed 2d

Description Affected Rules Recommendation

Description

No logs were received by the following log source types, which are part of Cardinalops license, during the last 180 days:

- Bandura TIG
- BanduraSource
- FireEye
- Nortel Contivity VPN Switch
- 3Com 8800 Series Switch

This issue is preventing Cardinalops from creating relevant rules for these log sources.

Affected Rules

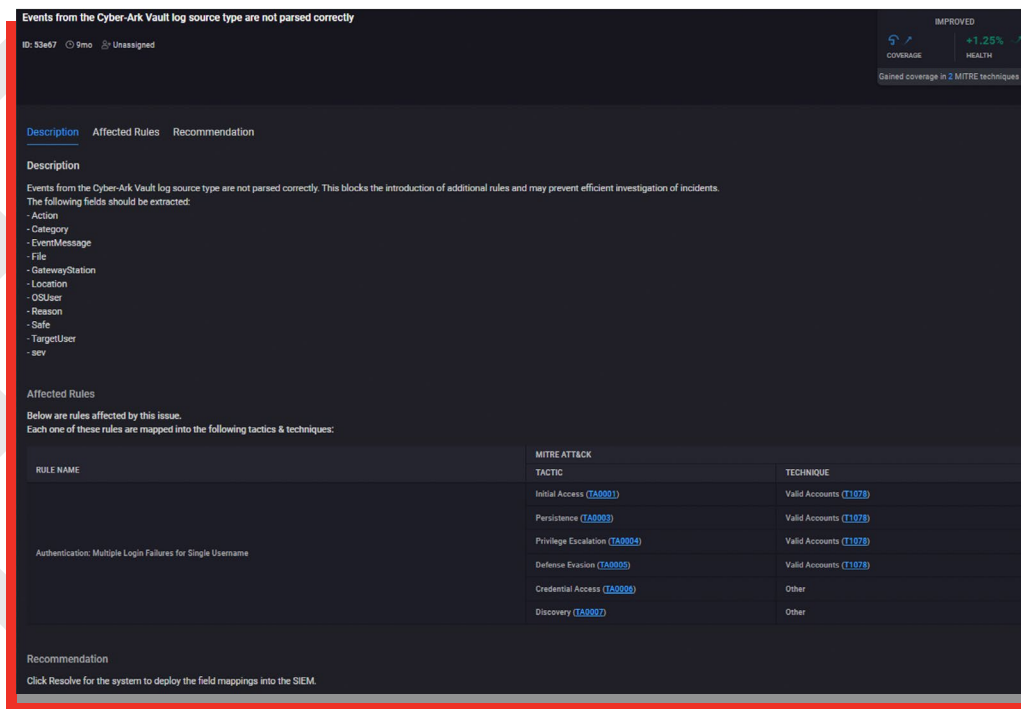
Below are rules affected by this issue.
Each one of these rules are mapped into the following tactics & techniques:

RULE NAME

Recommendation

- Make sure the log sources are configured correctly.
 - For a guide on how to configure Fireeye systems to send logs to Qradar [click here](#).
 - For a guide on how to configure 3Com 8800 Series Switches to send logs to Qradar [click here](#).
 - For a guide on how to configure Bandura systems to send logs to Qradar [click here](#) or [here](#).
 - For a guide on how to configure Nortel Networks systems to send logs to Qradar [click here](#).

5.7 Log source types not parsed correctly



Events from the Cyber-Ark Vault log source type are not parsed correctly

ID: 53e87 | 9mo | Unassigned

IMPROVED
COVERAGE: +1.25%
HEALTH: ▲
Gained coverage in 2 MITRE techniques ▼

Description

Events from the Cyber-Ark Vault log source type are not parsed correctly. This blocks the introduction of additional rules and may prevent efficient investigation of incidents. The following fields should be extracted:

- Action
- Category
- EventMessage
- File
- GatewayStation
- Location
- OSUser
- Reason
- Safe
- TargetUser
- sev

Affected Rules

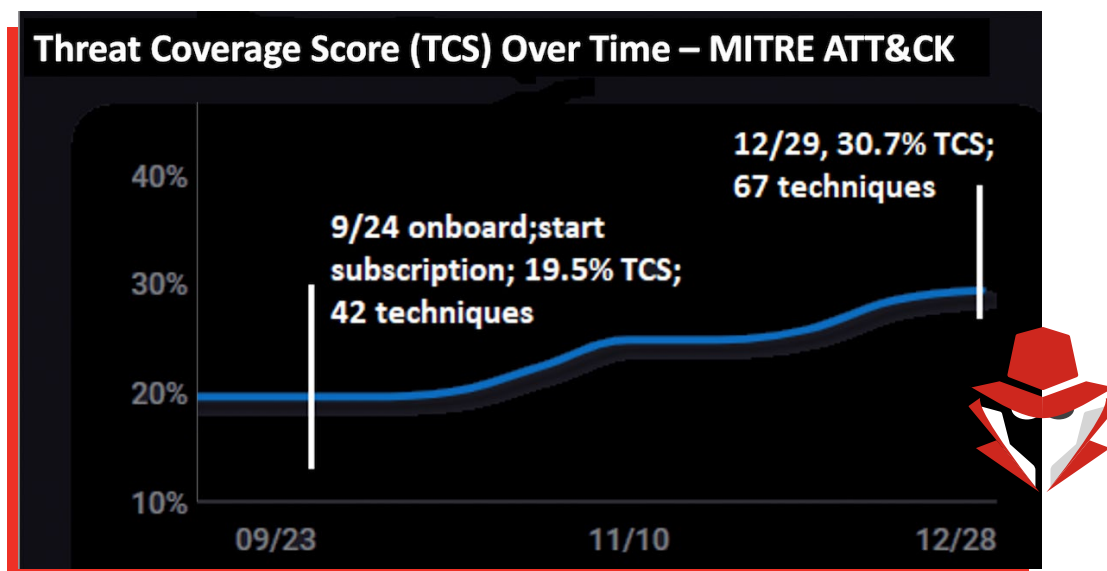
Below are rules affected by this issue. Each one of these rules are mapped into the following tactics & techniques:

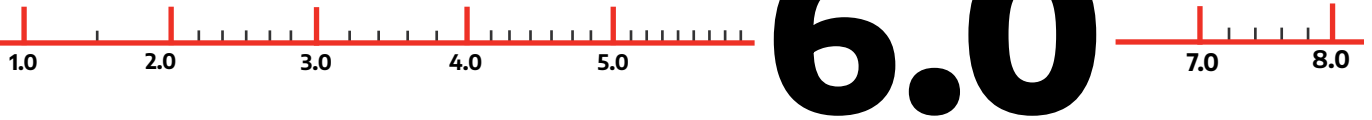
RULE NAME	MITRE ATTACK	
	TACTIC	TECHNIQUE
Authentication: Multiple Login Failures for Single Username	Initial Access (TA0001)	Valid Accounts (T1078)
	Persistence (TA0003)	Valid Accounts (T1078)
	Privilege Escalation (TA0004)	Valid Accounts (T1078)
	Defense Evasion (TA0005)	Valid Accounts (T1078)
	Credential Access (TA0006)	Other
	Discovery (TA0007)	Other

Recommendation

Click Resolve for the system to deploy the field mappings into the SIEM.

5.8 MITRE ATT&CK coverage score over time

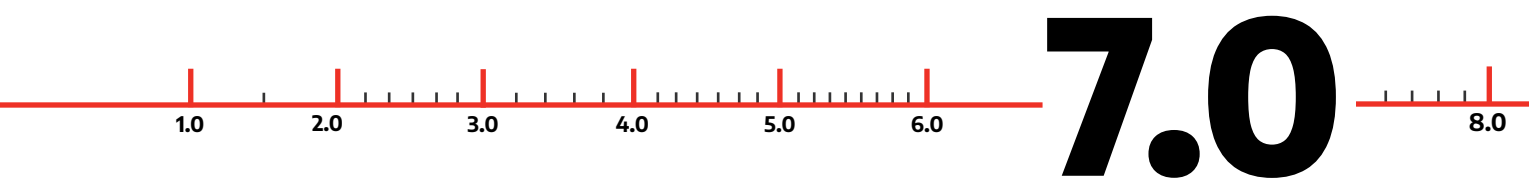




Rapid, Secure, API-Driven Deployment

Deployment is typically achieved in less than an hour.

- The platform connects to your SIEM/XDR's API via provided credentials.
- Secure network connectivity is achieved via your preferred process (Azure Lighthouse, onsite broker VMs, etc.).
- To get an initial health check, you can configure the platform with read-only credentials and only expand permissions later to derive the full platform value from automated provisioning of new and remediated rules.
- The platform never obtains or requires access to log data because it uses the SIEM to run queries on that data. Raw events never leave the SIEM. The platform only requires access to SIEM/XDR configuration information and metadata around detection rules, connectors, data sources, etc.
- Integration with Git-based CI/CD platforms is also enabled via our API.
- The CardinalOps platform is SOC-2 compliant for security and confidentiality, ensuring your SIEM/XDR configuration data is always protected using best practices.



Key initiatives benefiting from detection use case management

7.1 Operationalize MITRE ATT&CK in your SIEM/XDR

Most organizations track coverage of MITRE ATT&CK using static, manual approaches like spreadsheets. Although some SIEM/XDR vendors have recently begun displaying a coverage map in their platforms, true operationalization requires going beyond simple mapping to include rule recommendations, identification of data quality issues, and customization of detection content to your organizational priorities and infrastructure.

7.2 Securely accelerate cloud transformation initiatives

Organizations are increasingly moving business-critical applications to the cloud. Security teams want to support the business by accelerating cloud initiatives – but without introducing unnecessary risk.

Adding complexity, each cloud platform has its own monitoring tools, which need to be onboarded as log sources to the SIEM/XDR. For example, AWS log sources include S3, VPC, EC2, CloudWatch, and Cloud Trail, as well as both system- and application-layer log sources for containers such as Kubernetes. Plus, new cloud security tools like CSPM and CIEM also require onboarding of new log sources.

CardinalOps helps securely accelerate your cloud initiatives by providing pre-built, ready-to-use detection content for these new log sources.

7.3 Rapidly update detections for high-profile vulnerabilities and attacks

Community sharing, blog posts, and subscription-based content can be helpful with new threats — but copying and pasting generic content is often insufficient for addressing complex threats like log4shell and SolarWinds. CardinalOps can help with rich, high-fidelity detection content that's specifically adapted to your log sources and infrastructure.

7.4 Scale effectiveness of detection engineering teams by 10x

Security talent is hard to find and retain. With CardinalOps, you leverage AI-powered, API-driven automation and analytics to replace tedious and mundane activities (like looking for Regex typos and misconfigured collectors) – so that your best talent can focus on higher-value, more strategic activities — such as researching new and novel attack techniques — thereby boosting morale and retention.

In fact, customers tell us the platform has increased the detection content output of their security engineering teams by a factor of 10 compared to their previous manual approaches.



8.0

Customer Examples

The CardinalOps platform is currently in SOC's protecting some of the world's largest and most complex organizations, across diverse verticals including financial services, manufacturing, hospitality, media, transportation & logistics, law firms, and managed security services.

Chosen by Global Organizations



Top 10 CPG Manufacturer



Top 10 Private Equity Firm



Top 20 Retail Cosmetics firm



Top 10 Casino Company



Top 10 Money Transfer Firm



Top 10 US Law Firm



Top 15 MDR Provider



\$3B Freight Logistics Firm



Top 10 Cable Operator

ABOUT CARDINALOPS

CardinalOps' cloud-based platform continuously ensures your SIEM/XDR has high-fidelity detections for the adversary techniques most relevant to your business priorities and infrastructure, as measured by the MITRE ATT&CK framework.

Leveraging proprietary analytics and API-driven automation, the platform continuously delivers automatically customized, deployment-ready detection content and metrics enabling your SOC team to stay ahead of constant change in the attack surface and threat landscape – plus continuously identify and remediate broken rules and misconfigured log sources – so you can close the riskiest detection gaps that leave your organization exposed.

Founded in early 2020, CardinalOps is led by serial entrepreneurs whose previous companies were acquired by Palo Alto Networks, HP, Microsoft Security, IBM Security, and others. The company's advisory board includes Dr. Anton Chuvakin, recognized SIEM expert and former Gartner Research VP (now Head of Security Solution Strategy at Google); Dan Burns, former Optiv CEO and founder of Accuvant; and Randy Watkins, CTO of Critical Start.

For more information, please visit www.cardinalops.com.

