Solution Brief

SYMMETRY SYSTEMS

Data Security Posture Management (DSPM)

Key Challenge

The issues associated with securing vast loads of business data are complex–multi- and hybrid-cloud environments, insider threats, data breaches, third parties, vendor access, supply chains, and privacy regulations. Securing your mission-critical data in today's modern cloud environments is complicated.

Solution

Data Security Posture Management (DSPM) helps modern organizations manage the level of complexity and scale involved with protecting their most important asset–their data.

In today's data-centric, multi- and hybrid-cloud environments, information is held in a multitude of fragmented locations–from data stores and applications to third-party vendors and SaaS providers. The complexity of millions of data objects across thousands of data stores, multiplied by a seemingly infinite combination of roles and permissions for thousands of user and machine identities is already a complex security challenge to solve, even when you have a "perimeter" wrapped around the corporate environment. Businesses struggle to properly inventory, classify, control, and protect their critical data assets, while at the same time securing this data from attacks, insider threats, third-party supply chain attacks, vendor threats, and data breaches. Government regulations and industry mandates further complicate the data security process.

Key Benefits

- Assists businesses in understanding where **sensitive data** is located.
- Reduces **data sprawl.**
- Informs and controls least privilege **IAM** permissions.
- Helps organizations prioritize their **data security risks.**
- Reduces **data blast radius.**
- Aids security teams in remediating **data breach** and **attack impact.**
- Addresses **insider threats** and vendor, supplier, and third-party risk by providing insight into which identities have access to which data.
- Facilitates **audit** and **compliance** capabilities.

Solution Overview

Data security posture management (DSPM) addresses the key issues facing every business when it comes to protecting mission-critical data. It answers the questions:

What data do we have?

Where can the data be found?

Who has access?

Most businesses protect their sensitive data by focusing first on the identities and looking at what those identities have access to from the "outside in." The problem with this approach is that data stores and who has access to them have become too complex for any company to manage. DPSM extends the Zero Trust philosophy to hybrid cloud data stores by securing organizations from the data or "inside out." Symmetry Systems' DataGuard is a data security posture management (DSPM) solution designed to support a complete, data object-level understanding of:

- **The data (from sensitivity to location).**
- **The identities that have access (permissions).**
- **Operations performed on the data by those identities (flows).**

For each data object, DataGuard uses machine learning to combine knowledge of the data, the identities, and the operations to provide unique insights, help prioritize an organizations' data security risks, and support any impact remediation.

About Symmetry Systems DataGuard

DataGuard arms security operations teams with a single source of truth about their data security posture and associated data risks across AWS, GCP, Azure, and on-premise environments–without having data ever leave their environment.

DataGuard allows security operations teams to build security from the data out by directly addressing data objects and examining the cross section of identity, data stores, and data flows to answer important questions like:

- **Where is sensitive data?**
- **Who has access to it?**
- **What operations have they performed against it?**

With DataGuard, security operations teams can improve their data security posture and outpace ever-growing data security risks and threats.

DataGuard Outcomes

- Reduce mean time to detect (MTTD) and mean time to respond (MTTR) to data security issues and breaches to minimize data breach cost.
- Identify and lock down excessive data access permissions and privileges, to reduce threat actor ability to move laterally through your network.
- Understand the data blast radius of compromised identities and other insider threats quickly to take corrective or preemptive action.
- Provide executive visibility to cloud data sprawl, identity life cycle, Zero Trust violations, and sensitive data access to build security programs from the data-out.
- Minimize the cost and risk of data exposure associated with cloud data stores.
- Improve the security posture of your sensitive data and cloud data stores.

Identify Your Data

DataGuard enables compliance and cloud migration teams to identify where sensitive data resides without having the data leave their cloud environment.

Gain Full Visibility

DataGuard surfaces inactive accounts, dormant data stores, anomalous data flows, and cross-account permissions.

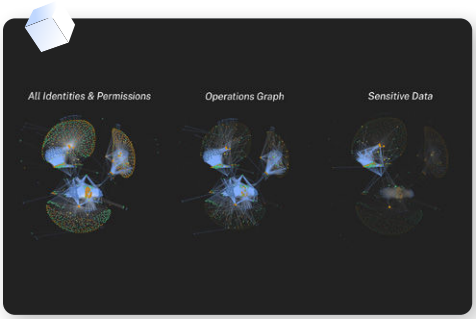
Detect and Respond

Uncover unsafe data access practices and risky operations detected by DataGuard's built in data firewalls.

Protect Your Data

DataGuard makes it easy to deploy least privilege permissions on IAM, cloud accounts, and data store access.

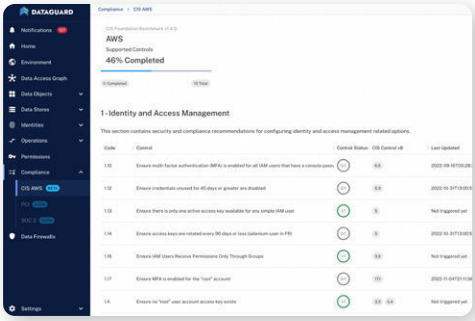
DataGuard DSPM Capabilities



Visualizing and Securing Data and Data Flow Across Environments

DataGuard is a DSPM solution that arms security operations teams with a complete understanding of their data, the identities that have access, and the operations performed against that data.

For each data object, DataGuard combines each of these elements to provide unique insights to help prioritize data security risks and aid security teams in remediating their impact.

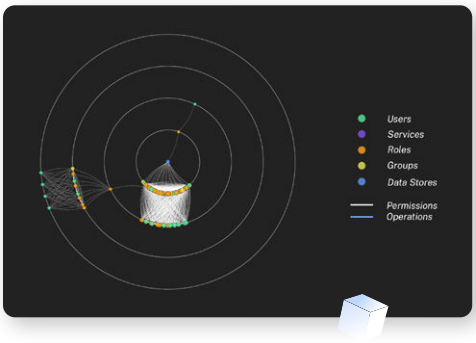


Manage Compliance and Privacy at the Data Object Level

DataGuard provides you with an end-to-end overview of your data security posture against industry standards and regulations. DataGuard provides:

- **Compliance audit capabilities.**
- **Evidence to allow your security teams to demonstrate compliance with regulations and mandates.**
- **Recommendations to proactively address gaps in compliance at the data object level.**

With DataGuard in place, your teams can more easily comply with industry specific regulations at scale.

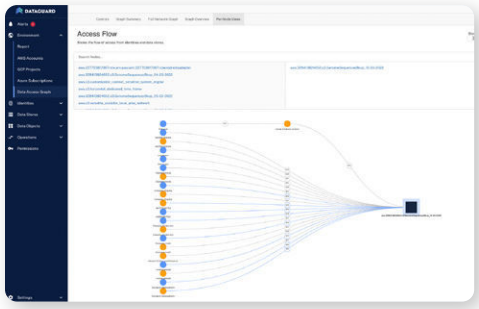


Reducing the Data Blast Radius from Insider Threats, Vendors, and Third Parties

DataGuard is able to enumerate all users and technologies who are able to access each data object, how they may use it, and have used it. Using machine learning DataGuard:

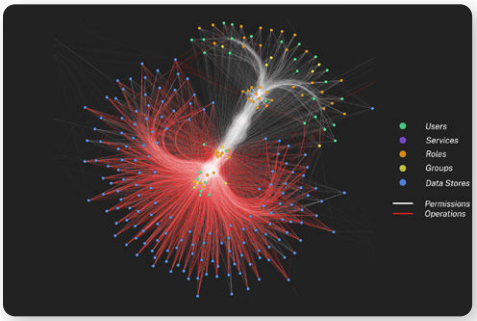
- **Identifies excessive, unused, or anomalous data.**
- **Enumerates paths to sensitive data.**
- **Determines data access and usage.**
- **Quantifies the potential data blast radius of accounts.**

Security teams use DataGuard to inform and control least privilege IAM permissions, reduce data sprawl, and proactively get alerted to anomalous data behaviors. With DataGuard, security teams can stay ahead of threats and reduce the data blast radius.



Anomalous Data Behavior Monitoring and Alerting

DataGuard detects current and historic anomalous data access and usage, alerting security teams in a timely manner with precision. Security teams can use DataGuard to investigate potential data breaches, ransomware attacks, and other cyber threats as quickly as possible.



Leading with Effective Data Breach Investigation and Response

DataGuard helps security teams quickly understand the blast radius and potential root causes during investigations of data security events. With DataGuard, security teams can prioritize steps to contain and to reduce the blast radius of the data security incident. Security teams can quickly:

- **Uncover potential malicious data access within hybridcloud environments and steps to take to quickly contain the attack.**
- **Collect information on what data threat actors have accessed and obtained, and what can be done to lock down further access.**
- **Review data flow maps on how far threat actors were able to move laterally throughout the environment to cut down forensic time and ability to spread.**

Ready to secure your mission-critical data with precision and scale?

Stop chasing threats at your perimeter. Know your data security posture and protect your sensitive data.

For more information, visit us at **www.symmetry-systems.com**