ANONYMIZING DATA FOR SECURITY AND COMPLIANCE

- Create tokens in numeric, text and date formats for single or multiple use applications
- Use LDAP user groups to decide what information is displayed to specific groups – For instance call center operators versus call center managers
- Deploy token server appliances in your virtual format of choice - OVF, ISO, Microsoft Azure Marketplace or Amazon AMI
- Non-disruptive – Restrict access to sensitive assets without changing database schemas

VORMETRIC VAULTLESS TOKENIZATION WITH DYNAMIC DATA MASKING

THE CHALLENGE:
For today’s security teams, it seems virtually everything is proliferating, including the volume and sophistication of threats, the amount of data and repositories that need to be secured, and the number of mandates and tools that have to be supported.

All this proliferation continues to place increasing demands on security teams—but these teams don’t see their time, staffing, or budgets undergoing any commensurate expansion. To contend with these realities, many security professionals have explored the use of tokenization, which has the potential to provide a convenient way to protect sensitive assets in databases and big data architectures, including those hosted on premises and in the cloud.

While tokenization offers the potential to address a wide range of security and compliance objectives, traditional tokenization tools have been far too complex and costly, and introduced too much of a performance hit on applications. More than ever, security teams need to be able to leverage the benefits of tokenization— and they need to do so in a consistent, efficient, high performance, and cost-effective manner.

1. Credit card data entered
2. Passed to Token Server
3. Changed to Token
4. Token returned to App Server
5. Token stored in Database

Typical Tokenization Workflow
THE SOLUTION: VAULTLESS TOKENIZATION
The Vormetric Data Security Platform features tokenization capabilities that can dramatically reduce the cost and effort associated with complying with security policies and regulatory mandates like the Payment Card Industry Data Security Standard (PCI DSS). With Vormetric Vaultless Tokenization with Dynamic Data Masking, your organization can efficiently address its objectives for securing and anonymizing sensitive assets and cardholder records—whether they reside in the data center, big data environments or the cloud.

DYNAMIC DATA MASKING
Administrators can establish policies to return an entire field tokenized or dynamically mask parts of a field. For example, a security team could establish policies so that a user with customer service representative credentials would only receive a credit card number with the last four digits visible, while a customer service supervisor could access the full credit card number in the clear. LDAP based groups, such as those available from Active Directory, and easily be used to establish and enforce the policy.

ESTABLISH TOKENIZATION WITH MINIMAL DISRUPTIONS AND EFFORT
Designed for performance at scale, the solution includes REST APIs for tokenization requests and an easy to use user interface for defining policy and usage of dynamic data masking that minimizes changes required to applications.

1. CSR requests credit card number
2. Token extracted from Database
3. Token and User passed to Token Server
4. LDAP inquiry shows CSR role, only last 4 digits may be viewed
5. Last 4 digits de-tokenized, the rest masked, and the number returned to the App Server
6. Masked number passed back to CSR

“Technologies like tokenization reduce compliance scope by replacing sensitive data with a non-sensitive token that looks and acts like the original. This means you get data protection without the need to change your databases. Once sensitive data is replaced with the token, these systems are no longer subject to compliance, meaning a lot less work for IT and compliance teams”
— Adrian Lane, Analyst and CTO, Securosis

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