NEXTLABS®

SkyDRM for VAST

Protect Data at Rest, Shared File, and Payload

OVERVIEW

VAST Data is a storage platform designed for high-performance, scalable data storage. It consolidates all data into a single, unified architecture, leveraging low-cost flash storage, data reduction techniques, and advanced software to deliver fast access, resilience, and efficiency. VAST aims to simplify data management while reducing costs and improving performance across workloads.

There are many data security risks inherent to data storage, including the following:

- **Data Breaches**: If security measures are inadequate, sensitive information can be exposed to unauthorized parties.
- **Intellectual Property Theft**: Proprietary data can be stolen or misused by individuals who have access to the data.
- **Compliance Violations**: Storing sensitive information without proper safeguards can lead to violations of data protection regulations, resulting in legal and financial penalties.
- **Data Storage Attacks**: Cyber attackers can target data storage systems to gain access to sensitive data, exploiting vulnerabilities in the systems.

Enterprise digital rights management (E-DRM) is a technology that protects sensitive enterprise information and data from unauthorized access and use. It allows for secure collaboration, sharing, viewing, editing, printing, making a copy, screen capture, extracting content, and expiration across internal and external stakeholders. E-DRM applies rules and policies to the information distributed in electronic documents and can update or revoke them even when the document has been shared. E-DRM protects information against theft, misuses, or inadvertent disclosure, and mitigates the business, legal, and regulatory risks of collaboration and information exchanges with partners, customers, and across the extended enterprise.

THE SOLUTION

NextLabs SkyDRM for VAST Data applies Enterprise Digital Rights Management (E-DRM) to extend security and usage control to files downloaded from VAST Data to achieve end-to-end protection for sensitive data at rest and on the move.

SkyDRM for VAST Data can automatically protect valuable files at rest inside of VAST Data with a security envelope using DRM based on predefined rules. The security envelope includes metadata from VAST Data. The combination of metadata, environment variables and user groups in Identity Providers (IDPs such as Microsoft Entra ID) are used to determine the rights of the users dynamically in real time while accessing the data. Permissions are granted by the policy engine and authorized users can open, view, and even modify the DRM protected files using native applications when users access the files in VAST Data. Files are protected persistently even after they are copied or moved from VAST Data to other locations. Data owners get full visibility into how their data is being shared, accessed, and used at rest and in transit.

SkyDRM for VAST Data provides the following key capabilities:

- Automated protection of files with DRM and tagging of valuable files managed in VAST Data with predefined rules. Protection stays with the files regardless of where those files are located and travel to - inside and outside of VAST Data. Metadata to classify the protected files can be from
  - S3
  - File Properties and NTFS ADS
  - File Path and File Name

- Dynamic access and usage controls over files, limiting access, editing, printing, copying, and screen capture with the ability to set expiration, dynamic watermark, and "# of uses" limit on protected files based on data classification and user attributes.
- Seamless integrations with Microsoft Office and other 3rd party applications, enabling users with the proper permissions to open, view, and edit protected files with native applications after users check protected files out of VAST Data.
- Secure viewing from any device with a HTML5-compatible browser. Supported file types include Microsoft Office documents, PDF, JPG, PNG, and 100s of other file formats including most popular CAD formats such as STP, JT, and DWG. The viewer provides a multitude of interactive visualization capabilities like Zoom In, Zoom Out, and Rotate.
- Monitoring and reporting of data use to get full visibility on usage and sharing of critical data.
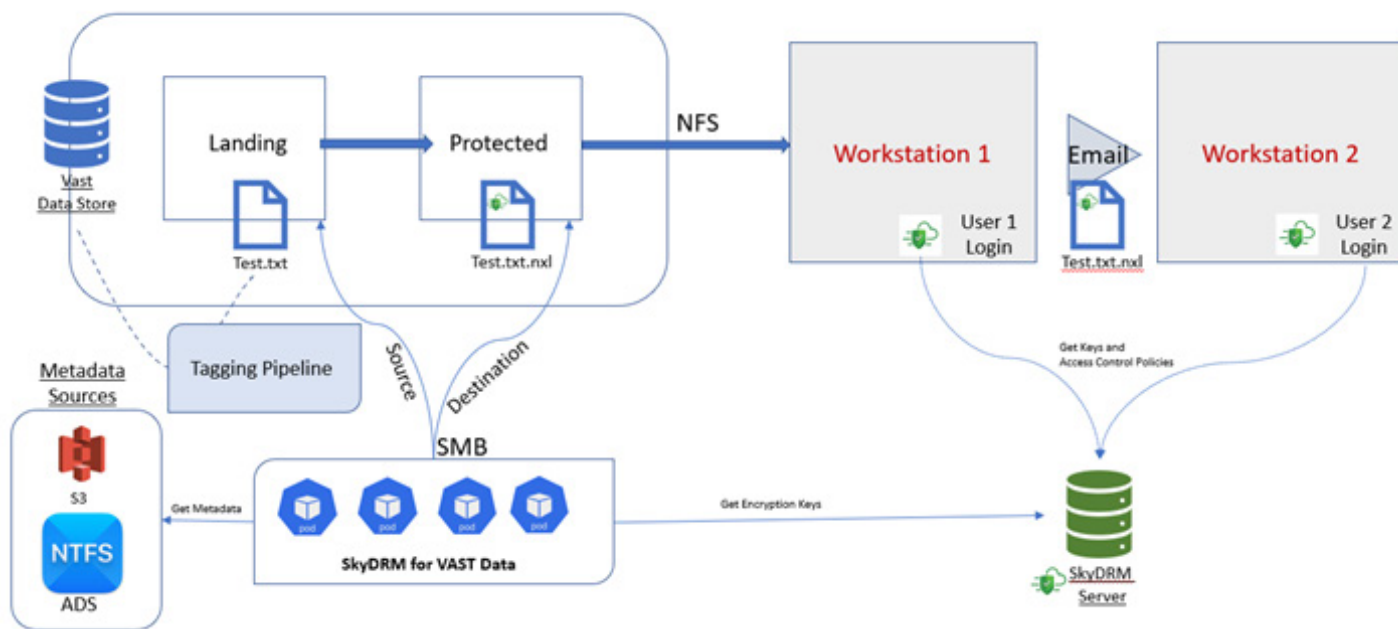
THE RESULT

Using SkyDRM for VAST Data, companies can:
- Automatically protect files in VAST Data with metadata from VAST Data and extend the protection to downloaded files.
- Control access and usage of files shared with internal and external users with Microsoft Office and 100s of native applications based on security labels from VAST Data and user attributes.
- Securely share files and collaborate with multiple parties across multiple organizations.
- Eliminate manual security procedures that impede collaboration.
- Have comprehensive visibility into access events and data for audit, oversight, and troubleshooting.

SOLUTION COMPONENTS

SkyDRM for VAST Data is comprised of multiple integrated components selected and deployed according to a company's use case. The complete solution allows companies to securely share product data both internally with global employees and externally with collaborative partners and suppliers.

Rights Protection Tool for VAST Data

The Rights Protection Tool for VAST Data automatically protects sensitive files according to VAST Data classification and access security. It integrates VAST Data and the SkyDRM Rights Management Server to protect (tag and DRM encrypt) files before data is shared.

Rights Management Server

The Rights Management Server provides two functions. First, applying rights protection to ensure only authorized individuals get access, and second, providing secure viewing of protected documents from any device via any HTML5 web browser. Available either on- premises or in the cloud, Secure Viewing is well-suited for use cases where business and legal documents need to be shared with external users who are unable to install client-side software or where users prefer to view the shared documents from mobile devices.

Rights Management Client

The Rights Management Client provides secure access, viewing, and editing of protected files using native applications. Unlike other rights management products, which only support a handful of file formats and applications, the NextLabs SkyDRM product is built to support any file format and application, allowing customers to protect critical legal and business data in Office, PDF, and email files. The Rights Management Client also works completely offline, making it well-suited for mobile users in the field that needs offline access to critical documents.

Centralized Management and Reporting

SkyDRM for VAST Data is built on the NextLabs CloudAz Zero Trust Policy Platform, the industry leading information control policy platform for central management, control, and activity analytics. Companies now can have one set of policies for all critical legal and business documents across VAST Data and various document management systems with centralized visibility to quickly highlight unusual access patterns or behavior - preventing breaches, misuse, and violations.

Feature	Support
Supported File Formats in Viewer	Microsoft Word, Microsoft PowerPoint, Microsoft Excel, Microsoft Visio, Adobe PDF, Source code (java, cpp, xml, html, etc.), Picture file (jpg, png, tif, bmp, etc.), CAD (MicroStation, AutoCAD, SolidWorks, Creo, CATIA, Parasolid, NX, Solid Edge, Siemens JT), SAP Visual Enterprise (Web Viewer only), Common CAD formats (dgn, dwg, igs, iges, stp, stl, step, etc.), and many more
Supported Controls	View (Access Control), Edit, Print, Re-Share, Save As (Make a Local Copy), Screen Capture, Extract (Make a Decrypted Copy), Watermark, Expiration
Container Platform	Kubernetes, Docker
Server Platforms	Docker CE, RHEL, Ubuntu, Windows
Supported Clients	HTML 5 Browsers (Edge, Chrome, Safari, Firefox), Windows, iOS
Supported Identity Providers	Azure AD, Active Directory (AD), Okta, Active Directory Federation Services (ADFS), OneLogin, PingOne, SAML IdP, OAuth IdP, etc.
Supported Cloud and SaaS Apps	Google Drive, OneDrive, SharePoint Online, SharePoint On-Premises, Dropbox
RMX for Enterprise Applications	Microsoft Office, SharePoint, SharePoint Online, Siemens Teamcenter, Bentley ProjectWise, SAP ERP

ABOUT NEXTLABS

NextLabs®, Inc. provides zero trust data-centric security software to protect business critical data and applications. Our patented dynamic authorization technology and industry leading attribute-based zero trust policy platform helps enterprises identify and protect sensitive data, monitor and control access to the data, and prevent regulatory violations – whether in the cloud or on premises. The software automates enforcement of security controls and compliance policies to enable secure information sharing across the extended enterprise. NextLabs has some of the largest global enterprises as customers and has strategic relationships with industry leaders such as SAP, Siemens, Microsoft, AWS, Accenture, Deloitte, Infosys, and IBM. For more information on NextLabs, please visit http://www.nextlabs.com.

NEXTLABS®