

ORACLE CONTENT DATABASE AND ORACLE DATABASE VAULT

Safeguard sensitive enterprise content from unauthorized access and misuse

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KEY BENEFITS

- Consolidate unmanaged content into Content DB
- Implement and enforce document policies in Content DB
- Protect sensitive content from misuse by system and database administrators

Businesses and organizations face increasing challenges regarding the administration of unstructured data. Oracle Content Database and Oracle Records Database leverage the Oracle architecture and Oracle Database 10g to deliver a consolidated set of content and records management services that provide an organization with a comprehensive, integrated solution for document and record lifecycle management. Oracle Database Vault provides a solution that prevents database administrators from accessing sensitive business information stored in Content Database, while allowing them to perform maintenance tasks within their authorized responsibilities.

Managing unstructured content

One of the most pressing challenges facing organizations today is that unstructured content is scattered across the network on file servers and individual computers. This content is unmanaged – it is uncertain who has access to the content or what actions they are performing.

Unmanaged content:

- Makes documenting and enforcing processes to comply with regulations expensive, as policies and procedures must be implemented and documented multiple times for different environments.
- Increases the risk that content will fall into the wrong hands - for example, proprietary information may be shared with a competitor or financial data may be leaked before the corporation's earnings are officially announced.
- Makes it difficult to respond to legal or regulatory requests in a legally defensible manner because it is unclear which users had access to the content in question.

Oracle Content Database (Content DB) enables organizations to leverage one highly scalable, manageable and robust environment to manage all of their unstructured information. Built on Oracle Database 10g, Oracle Application Server 10g and the Oracle Content Management SDK – Oracle Content Database provides a content management platform that exposes services to support business applications and processes, and end user functionality surfaced through familiar Windows and Web interfaces.

Protecting content with Oracle Content DB

Oracle Content DB supports fine-grained role-based access control that allows security to be specified at the folder or document level. Oracle Records Database (Records DB) adds the ability to specify file plan-based document retention and disposition policies and associate them with documents stored in Oracle Content DB – enforcing the appropriate retention period and record behavior. In addition Content DB provides a comprehensive auditing framework that enables an organization to audit any event in the system and generate audit trails and reports upon request.

At the database management and system administration level Oracle Database Vault further

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RELATED PRODUCTS

- Oracle Records Database
- Oracle Database 10g Release 2 – Oracle Advanced Security

FOR MORE INFORMATION

Oracle Content Database

www.oracle.com/database/contentdb

Oracle Database Vault

www.oracle.com/database/database-vault

protects content stored in Content DB, by:

- Restricting the DBA and other privileged users from accessing Content DB data
- Enforcing separation of duties between DBAs of different applications that share the same infrastructure
- Providing better controls and auditing for who accesses the Content DB schemas

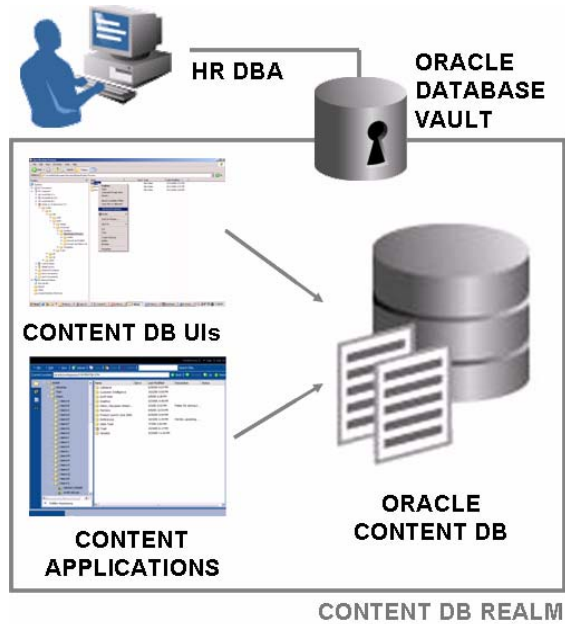


Figure 1. Protecting Oracle Content DB with Oracle Database Vault

Protecting Oracle Content DB with Oracle Database Vault

Oracle Content DB provisions a number of database objects when it is configured. Oracle Content DB creates the following schemas:

- content, content\$dr, content\$cm for managing content and related metadata, relationships, indexes etc
- content\$id for enabling user provisioning from Oracle Internet Directory
- owf_mgr for Oracle Workflow built-in workflows

And the following queues:

- ifs_bpel_in, ifs_bpel_out for communicating with Oracle BPEL Process Manager
- ifs_in, ifs_out for communicating with Oracle Workflow

During normal operations there is a well-defined set of processes that need to access these database objects. Oracle Database Vault enables an organization to configure a set of Realms and Command Rules, with supporting Rules and Rule Sets that restrict access to this minimum set of processes.

Oracle provides a set of PL/SQL scripts on Oracle Technology Network (OTN) that enable the appropriate Oracle Database Vault configuration to protect the Oracle Content DB and Oracle Records DB data in the database. This configuration consists of a set of Realms and Rules that restrict access to the Oracle Content DB objects and additionally restrict connections to known

machines – the Oracle Content DB middle tiers, Oracle BPEL Process Manager middle tiers and Oracle Internet Directory. It is expected that these rules will be used in conjunction with IT security best practices to secure and control access to the machines involved.

Each organization will need to adjust these rules to accommodate additional access that is needed to diagnose and maintain the application - for example DBAs may need direct access to the Content DB schemas to generate statspack snapshots or other reports to tune a query that is taking too long. It is recommended that such access be enabled through additional Realms that are only enabled when necessary and which audit all access.

Summary

Oracle Content DB and Oracle Database Vault provide the ideal foundation for organizations to consolidate and manage their unstructured content in the enterprise database, and offer the highest level of protection for sensitive content assets. Integral to the Oracle technology stack, these products uniquely enable organizations to leverage their Oracle investments and skills to maximum benefit.

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