SECURITY Insidiate States and the second sec

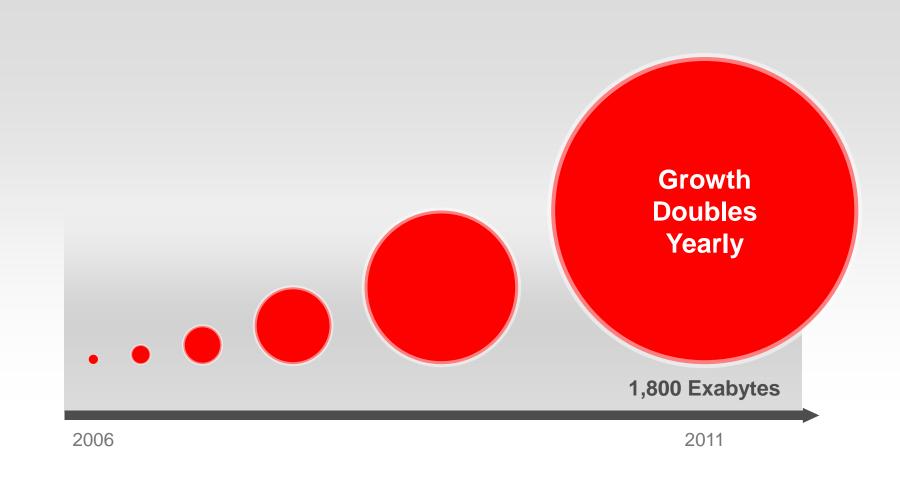
Complete Protection for Your Database, Middleware, and Applications

ORACLE®

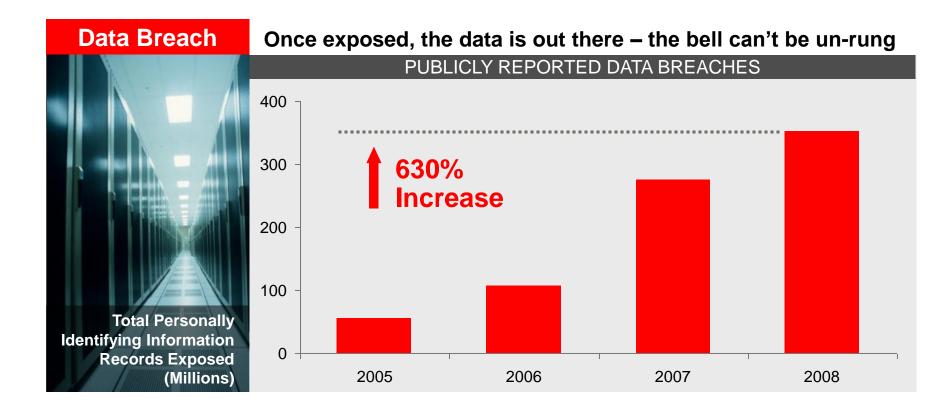
Cost-Effective Enterprise Data Security

Paul Needham, Director, Product Management, Database Security

More data than ever...



More breaches then ever...



More threats than ever...

CyberInsecure.com

Daily Cyber Threats And Internet Security News Alerts

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August 5th, 2008

Countrywide Financial Insider Steals And Sells Thousands Of Private Customer Records

The FBI on Friday arrested a former Countrywide Financial Corp. employee and another man in an alleged scheme to steal and sell sensitive personal information, including Social Security numbers, of as many as 2 million mortgage applicants. The breach in security, which occurred over a two-year



More Regulations Than Ever...



Source: IT Policy Compliance Group, 2007.

Market Overview: IT Security In 2009



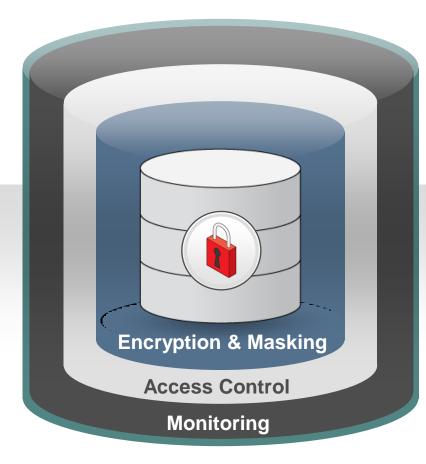
There has been a clear and significant shift from what was the widely recognized state of security just a few years ago. Protecting the organization's information assets is the top issue facing security programs: data security (90%) is most often cited as an important or very important issue for IT security organizations, followed by application security (86%).

Securing Data in Your Database

- Encryption
- Masking
- Classification
- Access Control



- Activity Monitoring
- Change Tracking
- Discovery and Assessment
- Secure Configuration



Monitoring

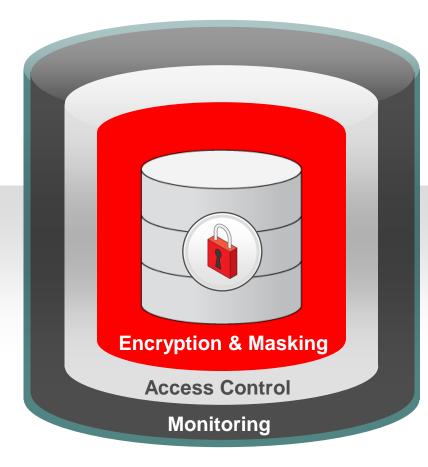
- Configuration Management
- Audit Vault
- Total Recall

Access Control

- Database Vault
- Label Security

Encryption & Masking

- Advanced Security
- Secure Backup
- Data Masking



Monitoring

- Configuration Management
- Audit Vault
- Total Recall

Access Control

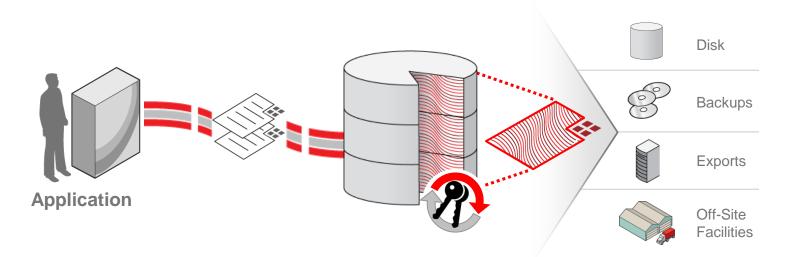
- Database Vault
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Encryption & Masking

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Oracle Advanced Security

Transparent Data Encryption

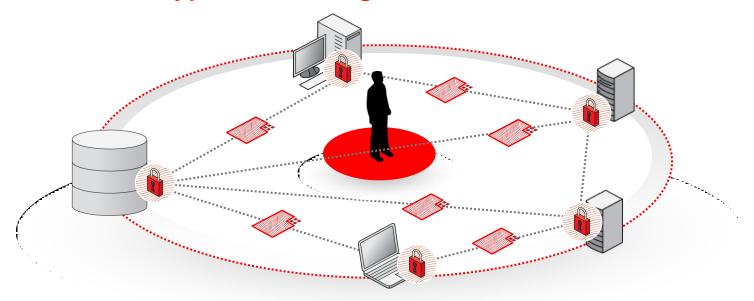


- Complete encryption for data at rest
- No application changes required
- Efficient encryption of all application data
- Built-in key lifecycle management



Oracle Advanced Security

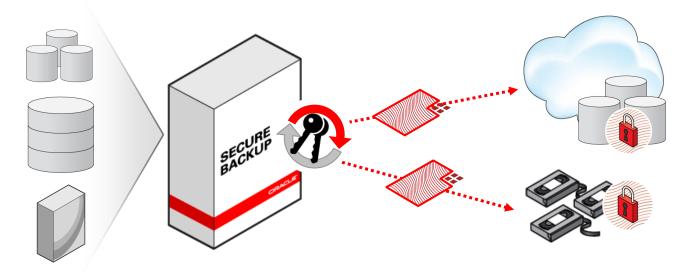
Network Encryption & Strong Authentication



- Standard-based encryption for data in transit
- Strong authentication of users and servers
- No infrastructure changes required
- Easy to implement

Oracle Secure Backup

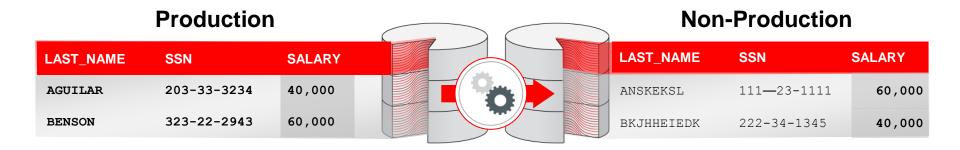
Integrated Tape or Cloud Backup Management



- Secure data archival to tape or cloud
- Easy to administer key management
- Fastest Oracle Database tape backups
- Leverage low-cost cloud storage

Oracle Data Masking

Irreversible De-Identification



- Remove sensitive data from non-production databases
- Referential integrity preserved so applications continue to work
- Sensitive data never leaves the database
- Extensible template library and policies for automation



Monitoring

- Configuration Management
- Audit Vault
- Total Recall

Access Control

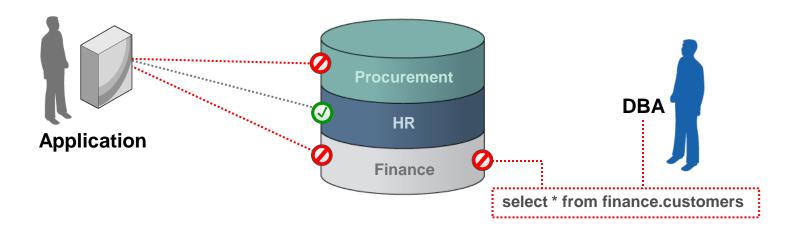
- Database Vault
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Encryption & Masking

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Oracle Database Vault

Separation of Duties & Privileged User Controls

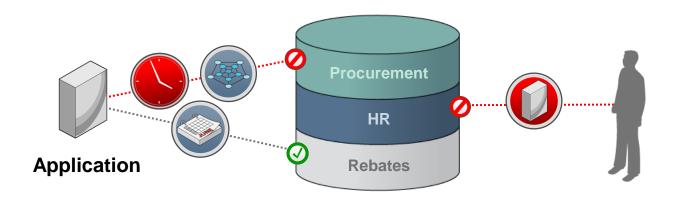


- DBA separation of duties
- Limit powers of privileged users
- Securely consolidate application data
- No application changes required



Oracle Database Vault

Multi-Factor Access Control Policy Enforcement



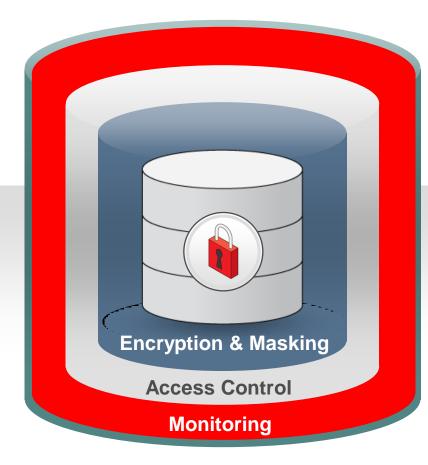
- Protect application data and prevent application by-pass
- Enforce who, where, when, and how using rules and factors
- Out-of-the box policies for Oracle applications, customizable

Oracle Label Security

Data Classification for Access Control



- Classify users and data based on business drivers
- Database enforced row level access control
- Users classification through Oracle Identity Management Suite
- Classification labels can be factors in other policies



Monitoring

- Configuration Management
- Audit Vault
- Total Recall

Access Control

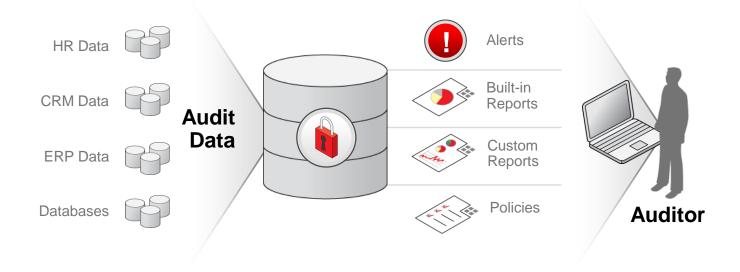
- Database Vault
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Encryption & Masking

- Advanced Security
- Secure Backup
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Oracle Audit Vault

Automated Activity Monitoring & Audit Reporting



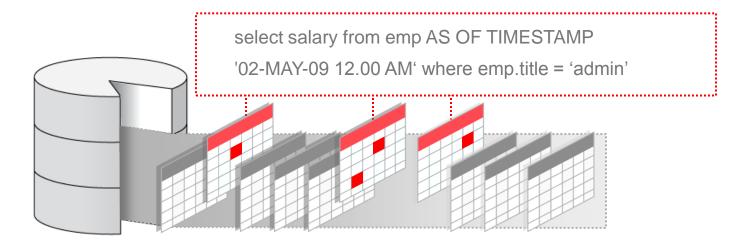
- Consolidate audit data into secure repository
- Detect and alert on suspicious activities
- Out-of-the box compliance reporting
- Centralized audit policy management





Oracle Total Recall

Secure Change Tracking



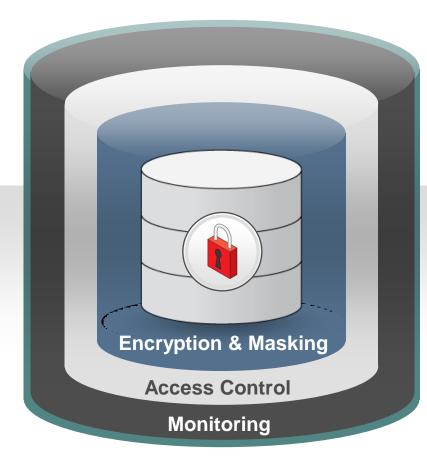
- Transparently track data changes
- Efficient, tamper-resistant storage of archives
- Real-time access to historical data
- Simplified forensics and error correction

Oracle Configuration Management

Vulnerability Assessment & Secure Configuration

Evaluation Result	ation Results s Library En	ors			
Evaluation Result		015			
his table summarizes th nformation.	e policy group evalu:	ations. Click the name of t	he policy:	group for d	etailed Page Refreshed Sep 17, 2008 4:48:43
Policy Group △	Version Keywords	Average Compliance Score (%)		Target Type	Description
<u>Secure Configuration for</u> <u>Oracle Database</u>	1 Security	58)atabase nstance	Ensures adherence with best-practice security configuration settings that help protect against database-related threats and attacks, providing a more secure operating environment for the Oracle database.
<u>Secure Configuration for</u> <u>Oracle Listener</u>	1 Security	90	31		Ensures adherence with best-practice security configuration settings that help protect against datchase-related threats and attacks,
Evaluation Result	s <u>Library Err</u>	<u>stor</u>		>Disco Asset anagen	Policy Vulnerability Configuration Analysis &

- Database discovery
- Continuous scanning against 375+ best practices and industry standards, extensible
- Detect and prevent unauthorized configuration changes
- Change management compliance reports



Monitoring

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- Audit Vault
- Total Recall

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Summary



- Transparent
- Integrated
- Comprehensive
- Cost-Effective



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or

oracle.com/database/security





