



How secure is your data?

EC:Secure Oracle and EC:Develop: Developing and managing secure Oracle DB based products and services

Based on a variety of metrics, Oracle is the most popular and widely used database system available. EC Wise is an Oracle Platinum Partner specializing in Oracle database technology. Over the past few years, we have increasingly focused on Oracle Database 12c Security, which delivers a wealth of security enhancements and new features including conditional auditing, privilege analysis, data redaction, enhanced encryption key management, real application security, mandatory realms, and performance optimizations to name a few.

Key Oracle Security Features

Oracle sports a wide variety of features designed to reduce your vulnerability. Some of these features are specific to the Enterprise edition, and others are provided by add-on products like Oracle Key Vault and Oracle Audit Vault and Database Firewall; they include:

- Preventing Operating System level data access with Transparent Data Encryption (TDE), which prevents privileged and unauthorized operating system users from directly accessing sensitive information in database files.
- Managing keys, Oracle wallets, keystores and credential files with Oracle Key Vault.
- Restricting exposure of privileged data to only those who need to know, using on-the-fly, engine level redaction of sensitive data in query results requested by applications
- Enable sharing of data using Oracle Data Masking and Subsetting to obfuscate and extract entire usable copies or subsets of application data from the database.
- Eliminate non-privileged access and tampering by leveraging privileged user controls, configuration controls, and separation of duty controls in Oracle Database Vault.

Request an EC:Secure Oracle evaluation to help you harden your valuable Oracle databases

EC Wise will evaluate your user accounts and overall Oracle security posture. We will then provide a report with suggestions for resolving these issues and other areas to review—for a low price of \$500 per database. The EC:Secure Oracle evaluation will look at four key areas:

- Account control, which covers user account management, authentication and privilege assignment for both natural user and role based accounts
- Encrypting data at rest, i.e. data stored on disk.
- Encrypting data in transit, i.e. when the data is passed to and from applications and between Oracle masters and slaves
- Protecting application data from illegitimate, threatening SQL statements

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- Prevent adhoc access to application data by privileged accounts using Oracle Database Vault, which operates at the database kernel level to block and audit attempts to access realm protected data. Monitoring these Database Vault audit records can provide an important early indicator of potential malicious activity.
- Control operations inside the database and prevent unauthorized changes to production environments that may impact both the security posture and regulatory compliance with Oracle Database Vault SQL Command Controls.
- Conduct privilege analysis with Oracle Database Vault to identify the actual privileges used at run-time. Privileges identified as unused can be evaluated for potential revocation, helping reduce the attack surface and achieve a least privilege model.
- Selectively audit database operations with policy based conditional auditing for simplified configuration and management. Audit policies encapsulate audit settings and audit conditions apply rules to control what is audited.
- Monitor and block unauthorized SQL traffic using the Database Firewall component of Audit Vault and Database Firewall, which uses a highly accurate SQL grammar-based analysis engine to apply the trust but verify principle.
- Ability to develop applications using Oracle 12c Real Application Security (RAS), which provides a robust declarative model for defining an application level data security policy based on application users, roles and privileges within the Oracle Database.

EC Wise Oracle services

EC Wise has been building and managing marketing service platforms and social networks that use Oracle as a database platform since 2002. Our engineers have experience with implementing high availability, scalability and performance optimization with both on premise deployment and in the cloud. In addition to ensuring that your data is secure, we have built high volume java and Oracle based service platforms, and helped client teams optimize the performance and manageability of their existing Oracle databases.

About EC Wise

Founded in 1998, EC Wise, Inc. is an international secure platform and systems developer providing IT Security, Services and Analytics.

EC Wise is headquartered in the US with offices in China and Peru. We offer services that enable our clients to efficiently plan, design, and implement highly secure information platforms, products, networks and systems compliant with national and international standards. Additionally, EC Wise has partnered with military grade and best-in-class security partners.

From Secure Platforms to Secure Operations, EC Wise combines a unique set of capabilities and partners to provide unparalleled value to our clients by providing services and products involving the full Platform Development and Operations Lifecycle. EC Wise services include:

- Secure software development
- Product integration
- Analytics & Machine Learning
- Layered security strategies, products and services

In addition to full life cycle projects, we integrate specific products or services, automate processes to increase efficiency and consistency, develop decision hubs to automate decision making, and deliver a variety of security solutions.

Contact us to learn more about how we do it, and what we can do for you.

"EC Wise will first help you formulate the right business questions and then define an approach to satisfying the appropriate business needs; others tend to arrive with a solution and then attempt to fit your problems to their solutions."

Andreas Weigend
Former Chief Scientist
Amazon.com



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