

PeteFinnigan.com Limited

PFCLScan Database Security

Oracle's database products provide excellent facilities for companies to store and manipulate their valuable data. Many organisations spend many man years developing and installing Oracle based systems to manage their business so it is important that those systems and data are secure.

The rate at which security issues are being found in Oracle products is increasing and database security and data security are being written about in the press more and more regularly. There hardly seems a day go by without a new case of data loss or data theft being shown on main-stream news channels. As hackers and wrong doers become more aware of how easy a target the data can be in a database then it becomes more important for every organisation to make sure that **your data is secure**.

It is important to remember that your data is core to your businesses strategy. If that data were to be accessible to competitors, or could be altered or destroyed by malicious employees or hackers profitability and the ability of your organisation to operate successfully may cease.

Securing Your Data

Unfortunately Oracle is a huge product and specialist employees are needed to ensure it is administered and runs smoothly. Administrators, DBA's, application consultants and developers all know their areas well but few of them can spend the time necessary to become experts in securing Oracle as well.

It can be very easy to miss some vital default configuration setting that makes the database insecure or not be aware of the latest security vulnerability or even to configure the database as part of an application install but not be aware that it has been made insecure by using certain settings.

All companies care about the security of their customers data but sometimes cannot spend extensive time to learn about all of the issues to ensure their system is secure. **This is where we can help.**

Securing a database is something PeteFinnigan.com Limited have done for many years, developing along the way methodologies, tools and techniques to assess, develop policies and achieve compliance.

Because we only do Oracle security we are better placed to offer expert guidance in this area. Achieving a hand-over of this knowledge to a person who does not have extensive skills in the area of database security is a problem we have looked at tirelessly to solve.

The Methodology

PeteFinnigan.com Limited can now offer a very detailed audit of an Oracle database installation checking for hundreds of known security configuration issues and vulnerabilities using a software tool that we have developed. This is called *Database Security Scanner by PeteFinnigan.com Limited*

A security audit that follows a checklist methodology is flawed. The reasons why are easy to see. Checklists are compiled by experts and others in the industry as best practices to follow but they are just that "best practices" for hardening databases. To really secure **your data** you must first understand that data, how it "flows" into the database and how it "flows" from the database. You must also understand how the database is accessed and by who and when.

Only by starting with an understanding of the security of your data can you hope to secure that same data.

The Audit Process

To secure a database the following broad steps must be followed:

- Understand the architecture, the data, the data flow and all access rights to the data
- Deep analysis of users, data, configuration and system functionality must be made
- Statement of the security posture of the database and data must be made
- Assessment of the security state is used to define a correction strategy, to develop a baseline standard or to define settings for an audit solution or IDS/IPS solution
- Roll-out the fix to test
- Scan the whole estate to create an inventory of all databases that must be hardened and secured
- Scan all databases to assess their security posture
- Roll out fixes to all databases
- Scan all databases for compliance

Database Security Scanner by PeteFinnigan.com Limited provides detailed hand-holding and years of experience at all stages of the process. The tool useful for many groups of people including

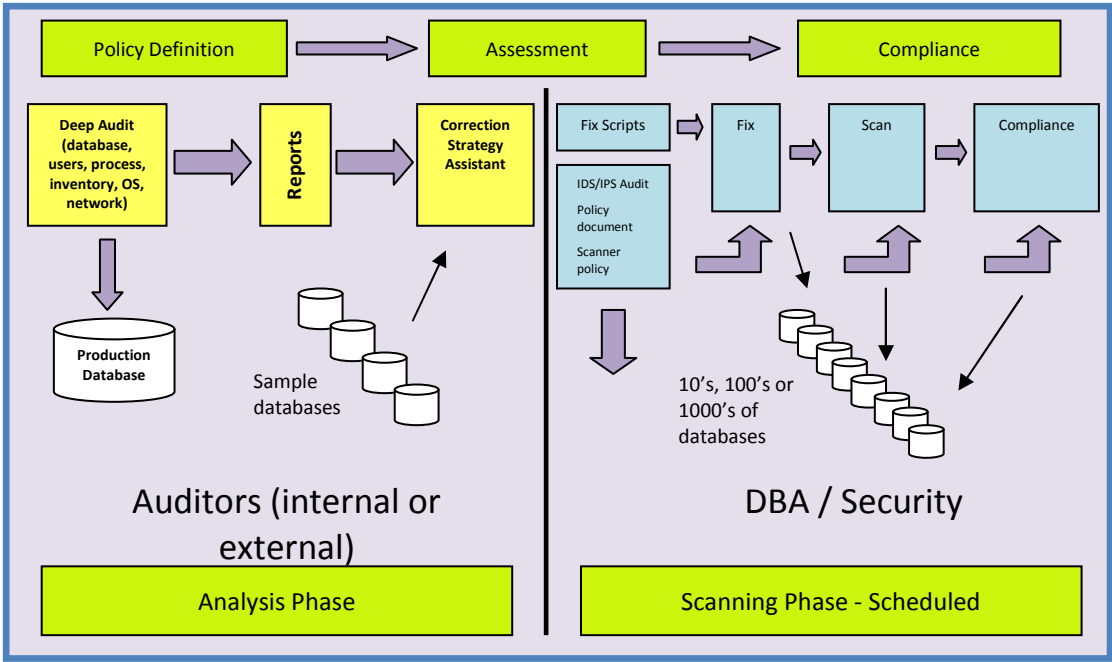
- security auditors who want to profit for years of real world experience
- Internal security and DBA staff who would like to prepare fully for an external audit
- Security staff, DBA's, auditors who would like to benefit from detailed guidance in developing database security policies and correction strategies
- Developers and security staff who need to push out fixes to many databases in the estate and to scan for compliance

This software is unique in its aims to transfer real world knowledge and also to provide detailed help in all stages of securing a database.

About PeteFinnigan.com

PeteFinnigan.com Limited is a company founded by Pete Finnigan and specialises in providing auditing services, training and products to secure data held in Oracle databases. We are based in the North of England but support a world wide client base. Pete Finnigan is a world renowned expert much sought after in the area of database security. He speaks regularly on the world stage and is published in many media formats.

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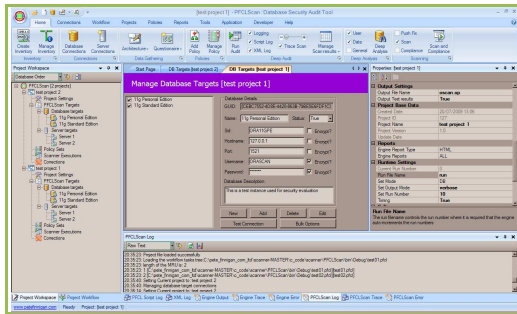


System Requirements

- Operating system (Console):** Microsoft Windows, XP Professional SP1 or later, Windows Server 2003 Standard or Enterprise
- Operating system (Engine):** As per console, Linux, Solaris
- Processor:** Pentium P4 1.5 Ghz or greater
- Memory:** 512 MB Ram (1Gig recommended)
- Storage space:** 1Gig, storage for scans depends on the number of databases scanned
- Repository:** XML format
- Network:** 1 Network card, 10 Mbps or greater
- Oracle Client:** Available from <http://www.oracle.com>
- Databases Supported (for scanning):** Oracle 8iR3, Oracle 9i, Oracle 10g and Oracle 11g

Key Features

- Deep Audit Analysis of the database using techniques derived from real world experience
- Policy driven; wide range of policies available for compliance
- Unique hierarchical and complex policies
- Wide range of reports, xml, text, MS Word, PDF, HTML
- Simple output XML files for easy integration with other security software
- Audit settings generated; fix scripts generated; IDS/IPS rules generated
- Unique deep analysis of audit results to generate a correction strategy
- Scanner policies generated from correction strategy
- Ability to generate a database security policy document for your organisation
- The whole data security process from start to finish is covered by one tool
- Project driven tasks



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