

Oracle Database Security Assessment



Why security is important for Oracle Database

Oracle Database store a lot of critical information – from financials to Payment Card Industry (PCI) data and more. When handling information of a critical or sensitive nature, your Database computing environments need to be as secure as possible. Since Oracle’s Database software is a packaged solution, the default Oracle Database installation is often left unchanged. Unfortunately, if left alone, some of the out-of-the-box configurations may leave your system vulnerable to security threats.

Assessment - The guidance you need

No single thing makes your environment secure, but a series of things all working in conjunction will. Apps Associates works to protect your Oracle Database environment by assessing a series of security components operating within your system – and offering solutions and suggestions to plug up any gaps in your arsenal.

Apps Associates provides a comprehensive and robust security assessment of your Oracle Database environment. We have a unique checklist of items at the Database tiers. We assess your system at each point, getting a detailed scorecard of your unique Database environment. How secure (or vulnerable) is your system on a scale of 0% - 100%? How severe are any existing security threats? Most importantly: How complex and time consuming will it be to remediate these issues? Regardless of the level of your current system, Apps Associates is here to help.

Here are some examples of Apps Associates' Oracle Database health checks and assessments:

EBS Environment Assessment with Oracle Database

Database Score 54%

DATABASE	Pass	Fail	Score	Max Score	Total %
1 Security Patches regarding vulnerabilities	0	1	-10	10	0%
2 User Accounts and Privileges	8	7	10	150	7%
3 Securing Roles	2	0	20	20	100%
4 Securing Passwords	1	8	-70	90	0%
5 Securing Data	5	0	50	50	100%
DATABASE Total	74	31	490	910	54%

Approach to Data Strategy

Apps Associates’ health check assesses your system with a multi-dimensional, three-prong process. First, after identifying potential and existing pain points, we assess risk. On a four-tiered scale ranging from high (likely, with a significant financial impact) to minimal (unlikely, with little financial impact), we determine how pressing a system vulnerability is. Then, we look at remediation time. Will a pressing issue take months to reconcile, or days? Can you

Assessment At-A-Glance

- ✓ Reduce and remediate threats to key data driving your business
- ✓ Propose strategies for improving end-to-end security
- ✓ Multi-stage plan of action designed to support and enhance your organization’s objectives in a secure, reliable manner
- ✓ Enhanced operational effectiveness of security policies and procedures

Why Apps Associates?

- ✓ Our DBA team – Oracle experts for over 20 years
- ✓ Our consultants are seasoned Oracle professionals with deep knowledge and expertise
- ✓ Collaborative assessment between your team and Apps Associates
- ✓ Prioritized, multi-stage plan of action tailored for maximum impact
- ✓ Our mission is to help you transform your business by recognizing the full potential of your Oracle software

put a minimally risky issue that will take weeks to fix on the back burner? This second prong helps us to further refine and prioritize our recommendations. Finally, we look at complexity – Is something an easy fix, or does it require outside assistance? By considering each vulnerability’s risk, remediation time, and complexity, Apps Associates will provide you with a multidimensional, multi-stage, time-sensitive plan of action that’s based on you organization’s specific needs.

What we will need from you, and what you will get from us

Our health checks are collaborative processes that triangulate our experts’ assessments with hard data from your system and real-life experiences from your team. In order to make sure your health check is as accurate as possible, your Apps Associates team will need access to all relevant documents and IT architectures. We will also need an opportunity to speak with relevant members of your team.

With these Apps Associates tools in play, we will deliver a summary report within ten days of completing your system’s assessment. Your tailored summary report will outline our findings and offer a series of carefully prioritized recommendations and action items. Because it’s often a lot of information to digest, our experts will present this report to your team – personally.

Hazardous Package Check

Configuration Category	Current Value	Recommended Value	Action Item	Risk Severity	
Hazardous Package Check	Table name	Owner	Privilege	<p>Some of the Oracle supplied packages have abilities that may potentially be misused. Restrict access to these packages to only those accounts that require them.</p> <p>Some of the potentially misused packages are: DBMS_BACKUP_RESTORE UTL_SMTP UTL_TCP UTL_HTTP UTL_FILE DBMS_LOB DBMS_RANDOM</p>	Medium
	DBMS_BACKUP_RESTORE	SYSBACKUP			
	DBMS_LOB	APPS	EXECUTE		
	DBMS_LOB	PUBLIC	EXECUTE		
	DBMS_RANDOM	APPS	EXECUTE		
	DBMS_RANDOM	PUBLIC	EXECUTE		
	UTL_FILE	ORACLE_OCM	EXECUTE		
	UTL_FILE	PUBLIC	EXECUTE		
	UTL_HTTP	PUBLIC	EXECUTE		
	UTL_SMTP	PUBLIC	EXECUTE		
	UTL_TCP	PUBLIC	EXECUTE		

- **Risk Severity:** Medium
- **Remediation Complexity:** Easy
- **Remediation Time:** Short
- **Impact:** User can potentially misuse certain packages
- **Remediation:** Revoke privileges from PUBLIC and any account that doesn't require the access to the package listed above.

Our Strategic Partners



About Apps Associates

Apps Associates is an enterprise application services leader with a customer-first focus. Apps Associates has more than two decades of experience helping organizations innovate through digital transformation initiatives. Customers such as Brooks Automation, Hologic Inc., Edwards Vacuum, and Take Two Interactive Software turn to Apps Associates for strategic counsel, system integration and the services required to solve their most complex business challenges - utilizing experience in analytics, application modernization, process automation, digital systems, technology and operations.

To learn more about how Apps Associates can help you align your business with the right technology, visit: www.appsassociates.com, or follow Apps Associates on social media on [Twitter](#) and [LinkedIn](#).

