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Global Business Consulting

Application Security & Controls

Securing Oracle Cloud Applications: ERP, SCM, HCM and CX

Application security frameworks, along with mitigating controls, are intended to empower users so that they can seamlessly perform their jobs, while managing key risks. All too often, the actual security design falls into two undesirable camps: being too generous and therefore exposing the enterprise to unwarranted risks or being too restrictive leading to stifling roadblocks that unintentionally encourage costly workarounds. A middle ground is attainable via the "least privilege" principle, wherein sufficient – not excessive – access is tailored per an organization's documented business process needs and a user's job responsibilities. This principle is a cornerstone of Protiviti's Application Security Design Methodology, and enhances overall risk maturity while decreasing the likelihood for undesirable, costly and disruptive events such as fraud or non-compliance.

Application security can empower or disable business process execution

Protiviti's Application Security Design Methodology

Phase and Objectives

Establish Segregation of Duties (SoD) & Sensitive Access (SA) Rules
- Identify organizational relevant rules via stakeholder input
- Prime selected tool to enable automated, privilege-level analysis

Gather Business Requirements & Produce Design Documents
- Facilitate business-driven discussions to glean what end-users truly need access to
- Translate functional needs into technical blueprints enabling configuration activities

Configure and Unit Test Baselined Security
- Configure requested security – duty & job roles and DSPs – in a lower-level instance
- Perform positive & negative validation, and systematically scrutinize with SoD/SA tool

Conduct User Acceptance Testing (UAT) and Fine-Tune
- Assign roles or "personas" to representative testers and verify ability to perform tasks
- Adjust roles as deemed necessary per testing feedback; confirm roles are SoD "clean"

Prepare Migration Package and Go-Live / Cutover
- Compile final security elements (roles and DSPs) and role assignments (FBDI, HDL, etc.)
- Validate successful migration into production and perform baseline SoD/SA analysis

Provide Hyper-Care and "Day 2" / Sustaining Support
- Triage application security related defects; adjust related documentation if necessary
- Deliver managed services as desired: provision access, perform SoD/SA analysis, etc.

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Guiding Principles and Key Outcomes

Comprehensive and Relevant Segregation of Duties / Sensitive Access Ruleset

- Ruleset that aligns with the organization's risk profile – absent of unrealistic hypotheticals
- Reasonable control mitigations where SoD cannot be fully realized, such as departments with small teams, allowing for opportunities to manage the risk using application features and capabilities
- User Access Reviews (UAR) and provisioning processes guided by SoD concepts and principles

Sufficiently Enabled, Yet "Least Privileged" Aligned

- Minimized deviation from defined processes, given the systematic inability to "explore"
- Mitigated license "unexpected usage" surprises, more closely aligning to planned consumption
- More effective end-user issue troubleshooting due to leaner job roles without unnecessary access

Intentionally "Clean" Role Design

- Avoidance of SoD conflicts within individual job roles, therefore decreasing fraudulent possibilities
- Decreased likelihood for compliance related observations (deficiency, weakness, etc.)
- Improved administration and governance mechanisms as a result of being built for purpose

Scalable Security Allowing For Global Adoption

- Long-term ROI as subsequent waves leverage a proven security model
- Accelerated incorporation of new entities stemming from M&A activities
- Less maintenance overhead given departure from business unit specific security variants

Want to discuss Oracle ERP Cloud Application Security at your organization?
Contact us at **technologyconsulting@protiviti.com.**

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