ORACLE CloudWorld

Strengthening ERP Security Posture with Semantic AI

Fusion Risk Management Cloud

Speakers

Dave Claytor

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Meta

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Vice President
Audit
Republic Services

Joe DeGrave

Director
Corporate Platforms-EPM
Hertz

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Director
IT
Exelon

Agenda

Strengthening Cybersecurity – Sid

Meta Case Study - Dave

Republic Services Case Study - Tara

Hertz Case Study – Joe

Exelon Case Study – Kevin

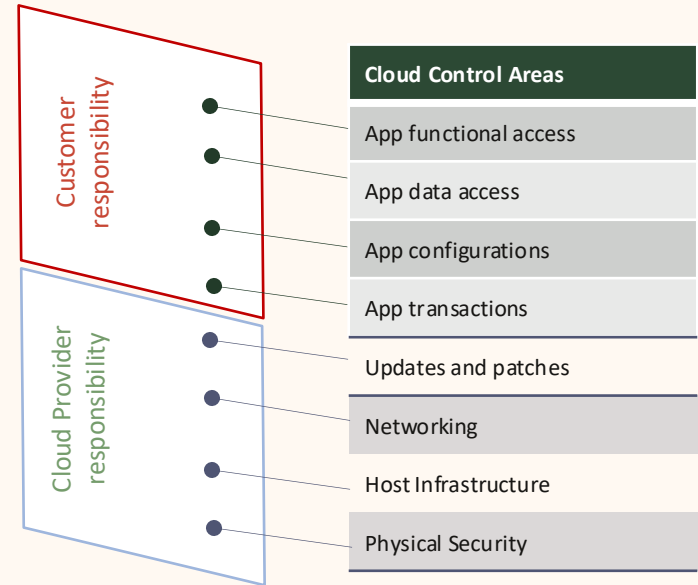Wrap-up

Shift to cloud is reshaping SaaS cybersecurity

Attack surface area focused on the application layer

On-prem ERP/SCM/HCM	→	Cloud ERP/SCM/HCM

- More users with a global footprint

- Increased integrations via web services

- Accelerated transaction cycle time

- More setups with frequent updates

Compared to on-prem, Business processes running on the cloud requires a different approach to managing cyber security

Customer responsibility

Cloud Provider responsibility

Cloud Control Areas

App functional access

App data access

App configurations

App transactions

Updates and patches

Networking

Host Infrastructure

Physical Security

Joe DeGrave

Hertz – Director Corporate Platforms - EPM

Hertz – Background

Operates the Hertz, Dollar and Thrifty vehicle rental brands throughout North America, Europe, the Caribbean, Latin America, Africa, the Middle East, Asia, Australia and New Zealand [1,2]
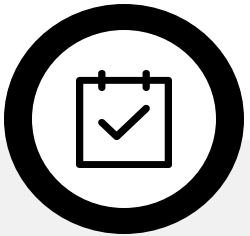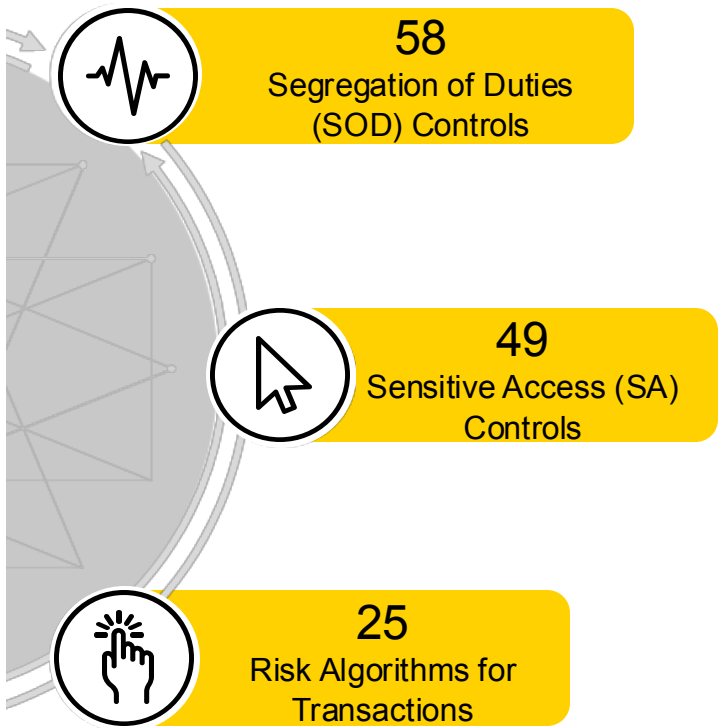
One of the largest worldwide vehicle rental companies, and the Hertz brand is one of the most recognized globally

Product and service initiatives such as Hertz Gold Plus Rewards, Ultimate Choice, Carfirmations, Mobile Wi-Fi and unique vehicles offered through its specialty collections set Hertz apart from the competition

Operates the Firefly vehicle rental brand and Hertz 24/7 car sharing business in international markets and sells vehicles through Hertz Car Sales
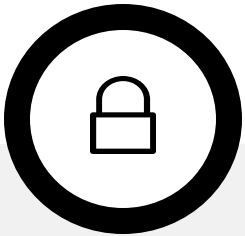
Hertz – Security Landscape

58 Segregation of Duties (SOD) Controls

49 Sensitive Access (SA) Controls

25 Risk Algorithms for Transactions

Implemented Oracle Cloud Financials, Supply Chain, and Human Capital Management in April 2023 with Deloitte as the System Implementer

Deployed for a user based of ~27,000 employees

Utilized Oracle Risk Management Cloud (RMC) since go live leveraging advanced security analysis controls and risk algorithms for transactions

Driving internal compliance across 150+ Oracle Cloud roles, 157 Oracle "personas" (role groupings), and 15K provisioning requests annually across the organization

Hertz   dollar. CAR RENTAL   Thrifty CAR RENTAL

Managing Security through RMC

1 **Preventative Role and Persona Reviews** | Advanced security analysis controls deployed for validation of security access components before migration to production

2 **Detective User Access Reviews** | Advanced security analysis controls utilized for periodic reviews of user access changes to confirm appropriateness

3 **Mitigating of Identified Risks** | Risk algorithms for transactions deployed to serve as mitigating controls for SOD and SA risk areas

4 **Rapid Deployment of Controls** | Best practice RMC controls designed to target risk areas (e.g. Procure to Pay Transactions, Access Rules)

RMC In Practice – Driving Leadership Objectives

Ensure sensitive access is restricted only to appropriate users in the system to mitigate data exposure risk

Review functional transactions to identify risk areas and ensure accuracy

Manage the Security posture of the organization as a whole

Flag users with access to perform BI Administration activities for additional review

Flag potential Duplicate AP Invoices based on Supplier Name, Invoice Amount, and Invoice Date

Flag users with access to perform both User Role assignments and Role Configurations for additional review

Flag users with access to make changes to Salaries for additional review

Flag frequent changes to Supplier Sites for additional review

Flag users with access to perform Audit Policy configurations for additional review

Key Takeaways
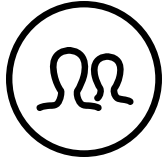
RMC Controls

utilized for validation of all security components prior to deployment in production to ensure roles and personas are SOD free
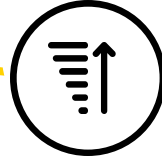
Periodic User Access Reviews

conducted using Oracle RMC to ensure appropriate access levels are maintained

Definition of Risk Algorithms for Transactions

to address identified risk areas and maintain adherence to compliance policies

Solutions and Use Cases
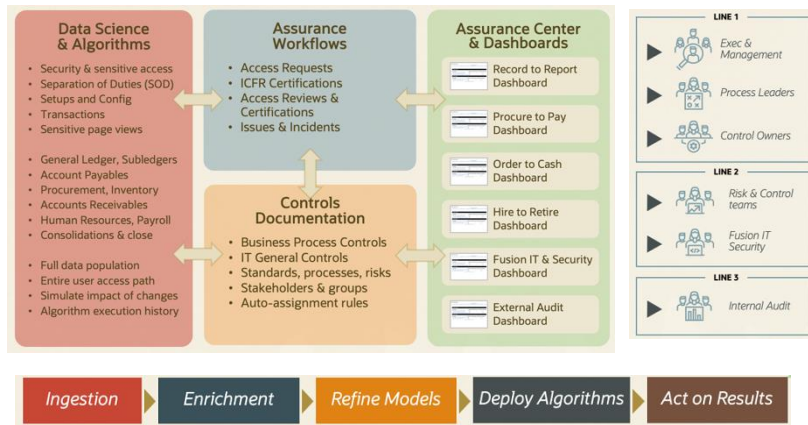
Enterprise-wide Assurance

Engage process owners (Line 1) with daily & continuous assurance

One unified system for documentation & data analysis across stakeholders

Automate ICFR including Cybersecurity and SOD with 100% transaction monitoring

Solution Areas

Prevent SOD violations

Monitor User Access

Monitor User Activity

Manage Internal Controls

Key Use Cases

1. Design Custom Roles without SOD violations
2. Check Access Requests for SOD violations `video`

3. Monitor & Report Sensitive (Restricted) Access `video`
4. Monitor & Report Separation of Duties (SOD) `video`
5. Automate User Access Reviews & Certifications `video`
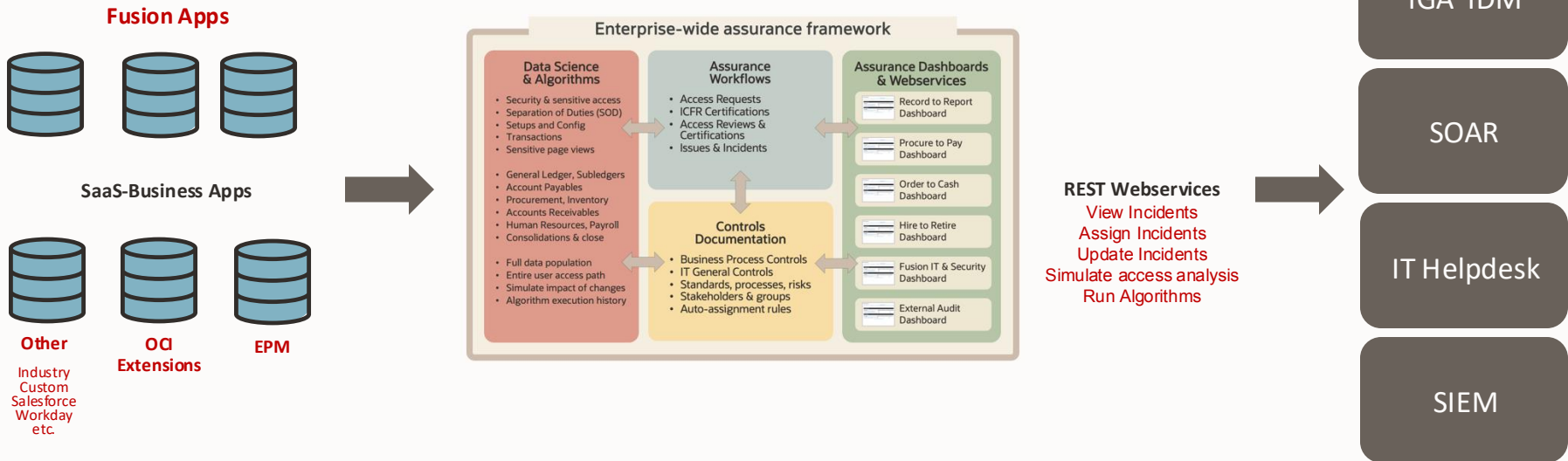
Monitor Critical Configurations & Transactions:

6. IT Superuser Assurance `video`
7. Procure to Pay Assurance `video`
8. Record to Report Assurance
9. Order to Cash Assurance
10. Hire to Retire Assurance

11. Document (RCM), Test & Certify Controls

Videos: www.riskcloud.wiki

Single surface for SaaS posture management (Fusion & non-Fusion)

- Integrated access governance for Fusion and non-Fusion Apps
- Activate one set of access controls, SoD rules and toxic combination policies
- Manage access issues in one place for audit reporting
- Webservices for integration with IGA, SOAR, IT Helpdesk etc.

Fusion Apps

SaaS-Business Apps

Other
Industry
Custom
Salesforce
Workday
etc.

**OCI
Extensions**

EPM

Enterprise-wide assurance framework

Data Science & Algorithms
- Security & sensitive access
- Separation of Duties (SOD)
- Setups and Config
- Transactions
- Sensitive page views

- General Ledger, Subledgers
- Account Payables
- Procurement, Inventory
- Accounts Receivables
- Human Resources, Payroll
- Consolidations & close

- Full data population
- Entire user access path
- Simulate impact of changes
- Algorithm execution history

Assurance Workflows
- Access Requests
- ICFR Certifications
- Access Reviews & Certifications
- Issues & Incidents

Controls Documentation
- Business Process Controls
- IT General Controls
- Standards, processes, risks
- Stakeholders & groups
- Auto-assignment rules

Assurance Dashboards & Webservices
- Record to Report Dashboard
- Procure to Pay Dashboard
- Order to Cash Dashboard
- Hire to Retire Dashboard
- Fusion IT & Security Dashboard
- External Audit Dashboard

REST Webservices
View Incidents
Assign Incidents
Update Incidents
Simulate access analysis
Run Algorithms

IGA IDM

SOAR

IT Helpdesk

SIEM

Summary

Deployment Planning	→	**Continuous Validation**

Deployment Planning

- ❑ Activate access controls

- ❑ Define roles free of access & SOD violations

- ❑ Assign business owners for roles

- ❑ Test workflows and simulate potential violations

Continuous Validation

- ❑ Periodic user review & certifications

- ❑ Compliant provisioning

- ❑ Daily monitoring for IT & Admin access

- ❑ Daily monitoring for users with SOD risk

- ❑ Daily monitoring for transactions with Access and SOD violations

- ❑ Daily monitoring for unusual viewing sensitive employee data

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Thank You

Subtitle goes here

Click to add text

riskcloud.wiki

Risk Cloud | Introduction | Case Studies

Intro & Demo (19 min)

Watch 1 long intro video (above) ↑
OR
Watch intro in short segments (below): ↓

1. Product Concepts (3:43)

2. Access Requests w/SoD (2:48)

3. Access Certifications (2:28)

4. Sensitive Access (2:28)

5. Separation of Duties - SoD (3:19)

6. Procure to Pay Assurance (2:45)

7. Hire to Retire Assurance (4:30)

8. IT Superuser Activity Monitoring …

9. Conclusion (2:02)

More Info

Intro to Fusion Risk Management Cloud

Watch later | Share

Introduction with Product Demos

Fusion
Risk Management
Cloud

Oct 2023

Watch on ▶ YouTube

Introduction with Product Demos (19 min)

Intro to product videos

Fusion Risk Management Concepts

Watch later | Share

Connected system of data-driven internal controls

Enterprise-wide Assurance Framework

https://www.riskcloud.wiki

Risk Management Resource Center

News, Events, and Training

☐ **Get acquainted with Risk Management** ⬅

1. Learn what it does: Overview | Use cases 2. See it in action: Introductory videos & case studies Customers' deployments and everyday experiences 3. Learn how it fits …

https://community.oracle.com/customerconnect/categories/erp-rc-risk-management

Get acquainted with Risk Management

1. Learn what it does:

- Overview | Use cases

2. See it in action:

- Introductory videos & case studies
- Customers' deployments and everyday experiences

3. Learn how it fits into the bigger picture:

- Principles of Oracle Fusion Cloud Applications Security
- Fusion Cloud Applications Security, Setups and Transactions: Key Considerations

4. Get started:

- Choose the blueprint that's right for you
- Follow our path to success