
GLOC
Great Lakes Oracle Conference
Cloud Integration:
Finding Your Company's Center of Gravity
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Agenda

- Intro / Background
- Premise: Your Center of Gravity
- Key Integration Concepts
- Key Considerations
- Key Components
- Case Study
- Wrap-up

Intro / Background

Ross Emerton

- Certified Oracle Enterprise Architect, Oracle Cloud Architect, and an accredited Amazon Web Services Professional.
- Currently leads the Technology practice for Vigilant Technologies and consults with clients on Cloud Strategies, Integration Methods, and Applied Technology Usage on multiple platforms.
- Featured speaker at the Paperless Lab Academy 2017 on the Internet of Laboratory Things and at multiple Oracle events discussing integration and cloud strategy.

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Oracle

Microsoft

Guaranteed Services

NMSDC
National Minority Supplier Development Council

CAMSC

Founded in 1999

Our DNA

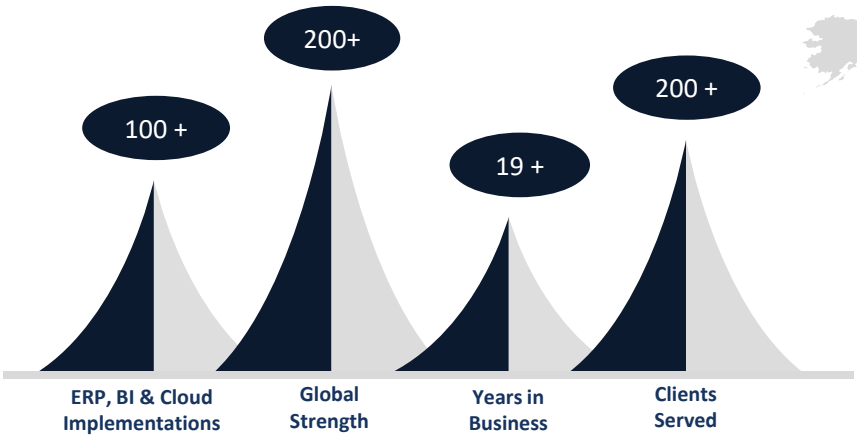
Customer Focus, Innovation, Trust & Teamwork

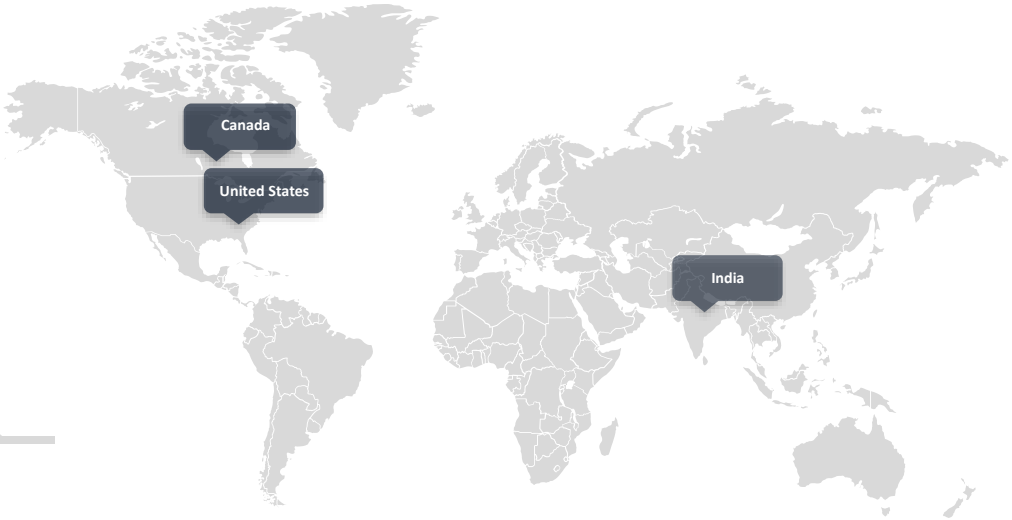
Minority Certified Supplier

USA & Canada

About Vigilant TECHNOLOGIES

Global Capabilities





Vigilant TECHNOLOGIES

Cloud Migration - Approach

As with a subway, there can be many routes to your cloud destination

Top-down Approach:

- CxO directive to move to cloud
- Alignment of Business / Technology roadmaps
- Pain-point mitigation
- Aggressive timelines

Typical Solutions:

- SaaS Solutions
- Lift & Shift to cloud
- Hybrid Integrations using PaaS for SaaS

Bottom-up Approach:

- Technology exploration
- Solutions seeking business problems
- Pain-point mitigation
- Less aggressive timelines

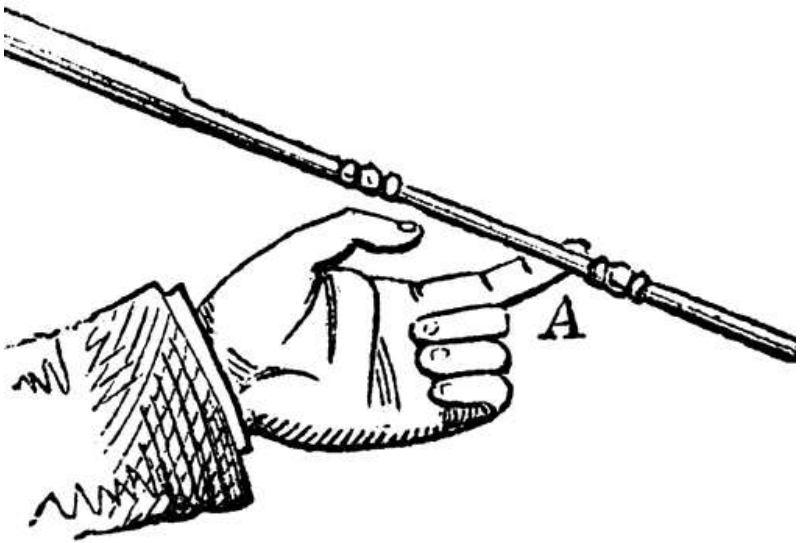
Typical Solutions:

- Backup to cloud
- Dev / Test in cloud

Premise: Your Center of Gravity

What is the Center of Gravity?

- All objects behave as though their mass (the stuff they're made from) is concentrated at a point called their center of gravity.
- A simple object like a ball has its center of gravity in a very obvious place: right at its center.
- In a more complex object, like your body, the center of gravity is slightly higher than your waist because there's more weight in the top half of your body than in the bottom half



Premise: Your Center of Gravity

If you want to fly an aircraft safely, having a balanced load is important.

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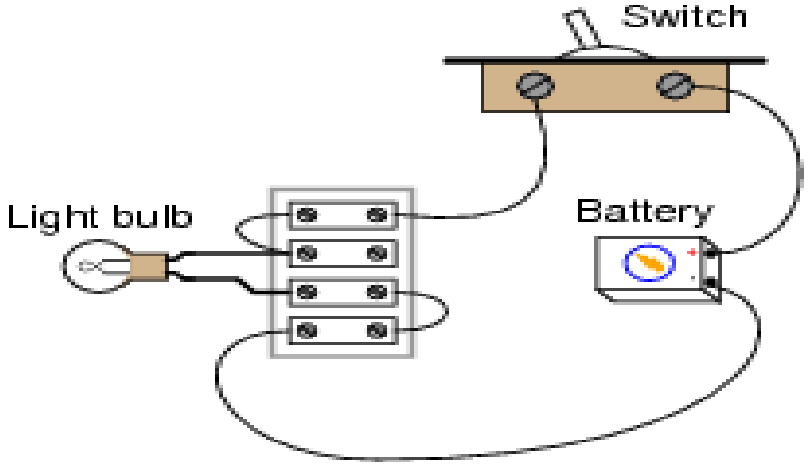
Premise: Your Center of Gravity



If you want your integrations to perform seamlessly, you need to place them appropriately.

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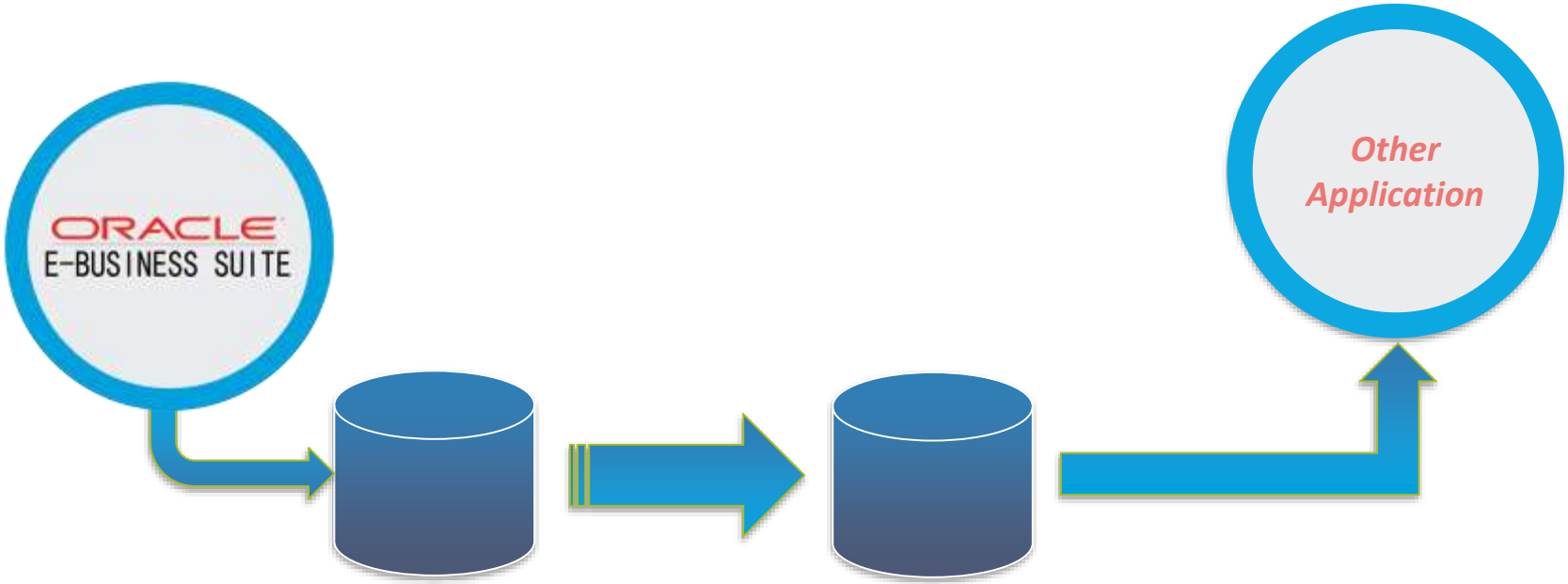
Key Integration Concepts

Primary Methods of Integration



Primary Methods of Integration

Key Considerations

On-Prem Considerations

- Flexibility
- Security
- Connectivity
- Reuse
- Governance of Processes
- Management

Cloud Considerations

- Security!
- Performance!
- Connectivity
- Flexibility
- Reuse
- Governance of Processes
- Management

Hybrid Considerations

- ***Security!***
- ***Connectivity – BANDWIDTH!***
- Flexibility
- Reuse
- Governance of Processes
- Management
- ***Where do you place your integration tier?***

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Hybrid Considerations

Where do you place your integration tier?

Your Center of Gravity determines placement:

- Majority is Cloud → *Integration in Cloud*
- Majority is On-Prem → Integration On-Prem

Hybrid Considerations

Why?

1) Network traffic – ***Bandwidth!***
2) Security of Transactions

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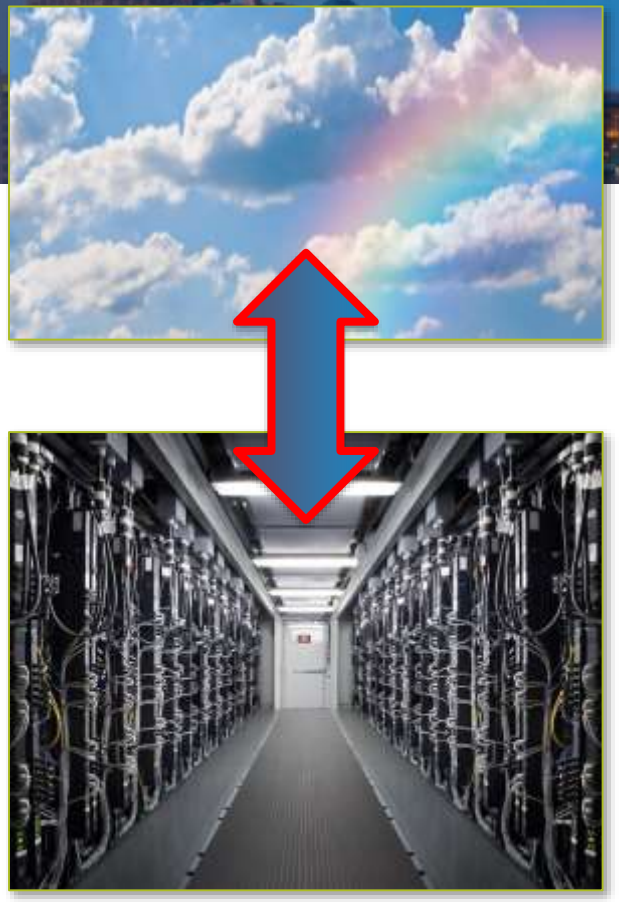
Key Components

Componentry / Tools

Cloud Exchanges:

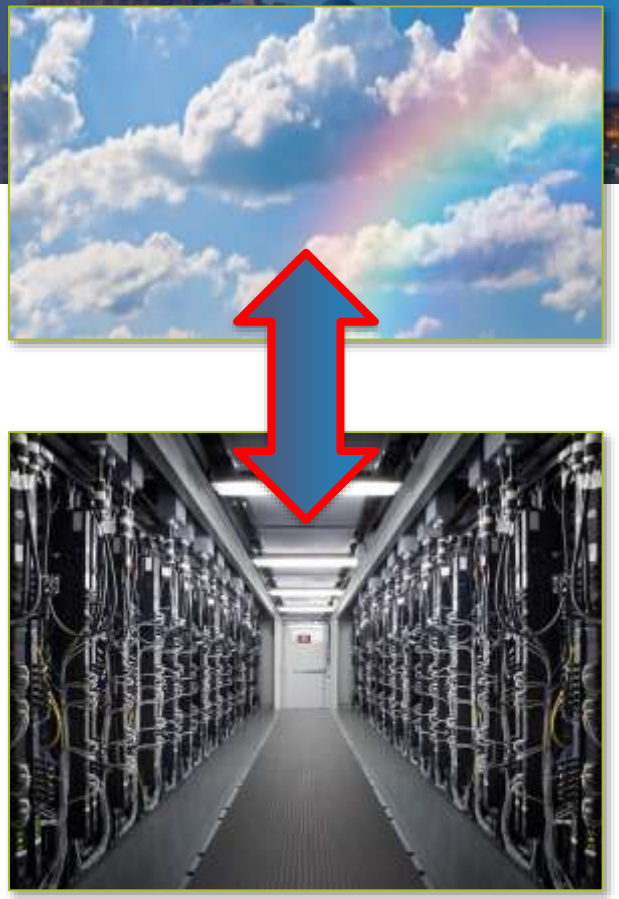
- High-velocity Network
- Pre-defined Cloud Provider connections
- Better performance
- Allow easier multi-cloud integrations



Componentry / Tools

Integration Tools (On-Prem):

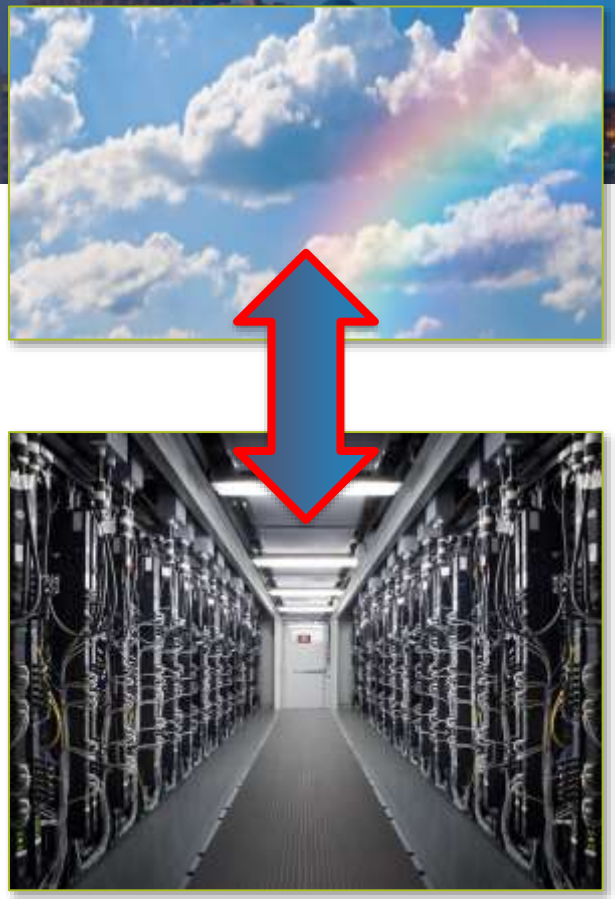
- Oracle SOA Suite
  - Ultimate flexibility
  - 300+ adapters
  - Built on industry standards
- Mulesoft
  - Less expensive
  - Less functionality
  - Good second choice



Componentry / Tools

Integration Tools (Cloud):

- Oracle Integration Cloud Service
  - Multiple options
    - » “Codeless” OICS
    - » SOA Cloud
  - Utilization Cost Model



Case Study

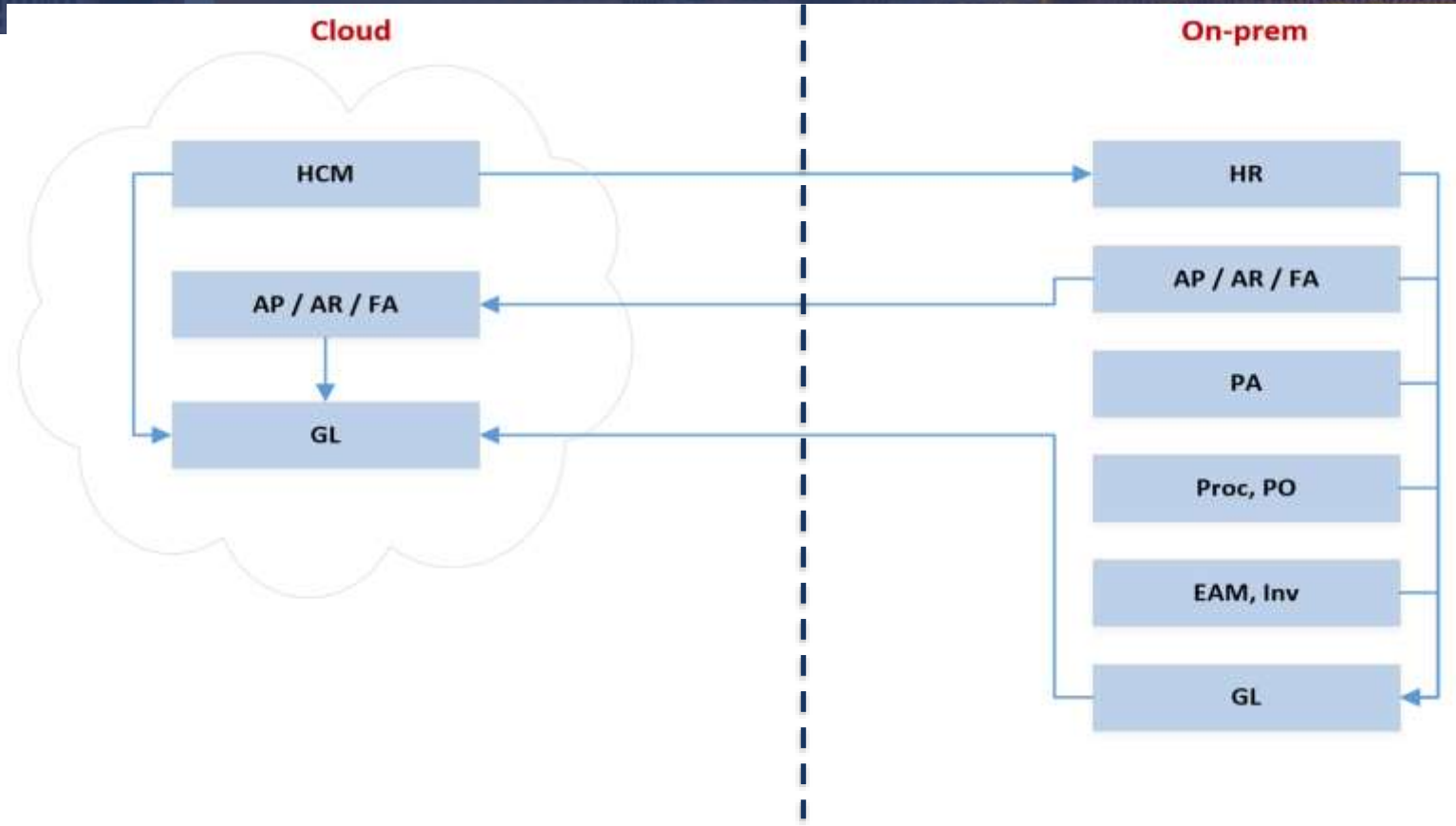
Case Study – Customer Scenario

- Large Global Mining Operation
- Migrating from EBS to Oracle ERP Cloud
- Required Enterprise Asset Management
  - Not yet available in the cloud
- Needed POC to show integration

Case Study – Solution Set

- Oracle ERP Cloud
- Oracle EBS (On-Prem)
- Oracle Integration Cloud Service
  - Connection to ERP Cloud
  - Connection to EAM Module On-Prem

Case Study – Data Flow



Case Study – Data Flow

Interface	Direction	Frequency
Employees	Cloud – On-prem	Immediate
Suppliers	On-prem - Cloud	Immediate
Payables Invoices (w/o PO and Project info), Payments	On-prem - Cloud	Periodic
Customers	On-prem - Cloud	Immediate
Receivables Transactions, Receipts	On-prem – Cloud	Periodic
Assets	On-prem - Cloud	Immediate
Assets, Transfer, Depreciation, Retirements	On-prem – Cloud	Periodic
GL Journals (Except HR, AP, AR, FA sources)	On-prem - Cloud	Periodic

Case Study – Lessons Learned

Some areas were easier than others!

- There were no pre-defined workflows for Oracle products
- Connectors were simple to use

Network bandwidth was a HUGE issue!

- Address this early / Consider a Cloud Exchange

Case Study – Lessons Learned

Typical SOA Integration issues still apply:

- Triggering events are still required!
  - There is no triggering event available for Supplier creation in EBS
  - Some logic in Cloud ERP lacks native ability to trigger
- Some work is required to enable product features!
  - Patches are required to enable Web Services in EBS / Make visible to OICS

Case Study – Lessons Learned

- Not all services are available at a granular level
  - Had to enable the Events Catalog in Cloud ERP (via OAM Console)
  - Limitations on granular details provided through EBS APIs required creating custom APIs

Plan & Allow Time for the Unexpected

Wrap-Up

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