ORACLE

December 3 - 13.45 SGT

Oracle Global Leaders Program

Oracle Global Leaders Meeting APAC 2020

Oracle Autonomous Database Panel





Pawarit Ruengsuksilp (Taa) Project Consultant Forth Smart – Thailand





Andrew Paynter Group CEO Impos - Australia









Wei Min ZengClark KhoHead of ITSenior Technology ArchitectCWT Globelink - SingaporeAccenture - Philippines

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impos



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accenture



Wei Min ZengClark KhoHead of ITSenior Technology ArchitectCWT Globelink - SingaporeAccenture - Philippines

HOW DATA WAREHOUSE AND DATA MINING MAKE FINTECH MARKETING MORE EFFECTIVE

Pawarit Ruengsuksilp Project Consultant FORTH CORPORATION PCL Dec 2020

Speaker Biography



Responsibility and Experience

- Building a control room to minimize the downtime of 120,000 online vending machines
- Using Machine Learning Algorithms to do market segmentation and targeted ads
- Made more than 50 working dashboards with Oracle Analytics Cloud
- Automating and improving the quality and integrity of Management Meeting's reports
- Co-ordinating with international vendors to bring about the Smart Grid solution to improve Bangkok's electricity infrastructure



Agenda

- Company Introduction
- Business Objectives
- Use Case 1: Agent Service Team
- Classification Models
- Data Warehouse Architecture
- Experience of using ADW/OAC/OML
- Q&A



Forth Smart Service Corporation

- Established in 2008
- Around 300 employees
- Head Office based in Bangkok, Thailand
- Operating more than 120,000 vending machines throughout Thailand
- Provides topping up prepaid mobile phones, bank transfers and utility bills payment services
- Expanded into snacks, drinks and coffee





Business Objectives



- Marketing team wants to increase the number of services that customers use
- Marketing team wants to get higher conversion for their advertising campaigns
- Agent Service team wants to minimize machine downtime
- Finance team wants to minimize the number of machines with full credits
- Business Development team wants to keep business partners engaged
- Sales team wants to automate optimization jobs done manually



We looked into Machine Learning as part of our answers to these problems

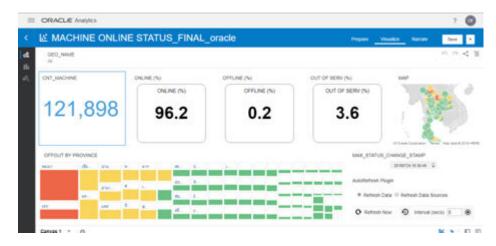


Agent Service

- First point of contact for agents
- Provide maintenance advice to agents
- Solve machine robbery issues
- Troubleshooting alarms
- Keep the system of machines disturbance free









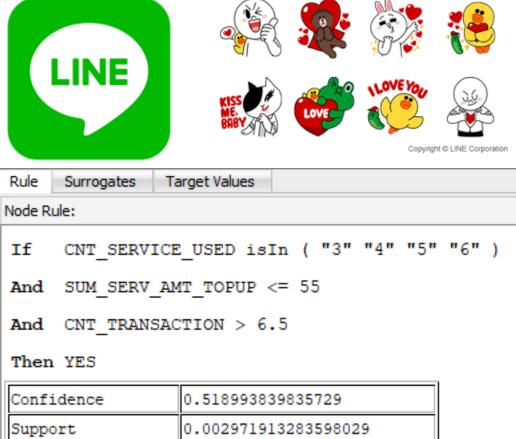
Classification Model I

Objective: Working out which customers are likely to be our Line Sticker customers

- 12 mn potential customers reached
- Query the customers with rules obtained
- Give the marketing team a set of cellphone numbers to do targeted advertising
- Facebook Audience used as a comparison channel to SMS

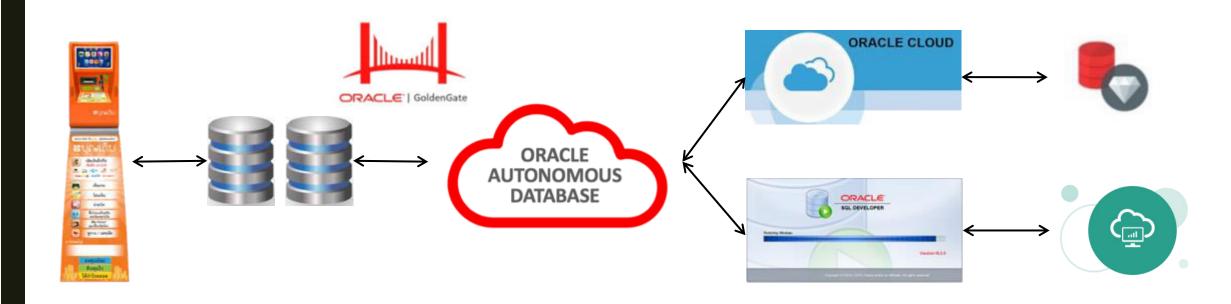
Results:

- 3x Conversion Rates due to Classification
- 6x Conversion Rates due to Facebook Audience





Database Architecture



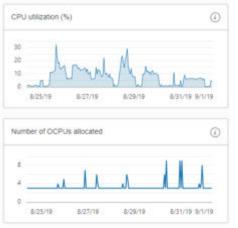


Experience of Using Autonomous Database

- 2 years into using ADW
- Auto-Scaling: Allocate more resources when needed
- Data Encryption: Less prone to cyber attacks
- Faster: More frequent refreshes makes data closer to real-time
- User-friendly GUI: Less downtime as there is no need to wait for the DBA to reset the database





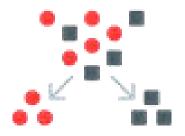






Facts and Benefits of ML in the Cloud

- Seamless integration with ADW
- Adding value to your data
- Variety of powerful graphing techniques
- Keep improving all the time
- Drag and Drop Experience
- Perform Market Basket Analysis and Classifications Models
- Providing numerical conclusions, not graphs





Questions & Answers

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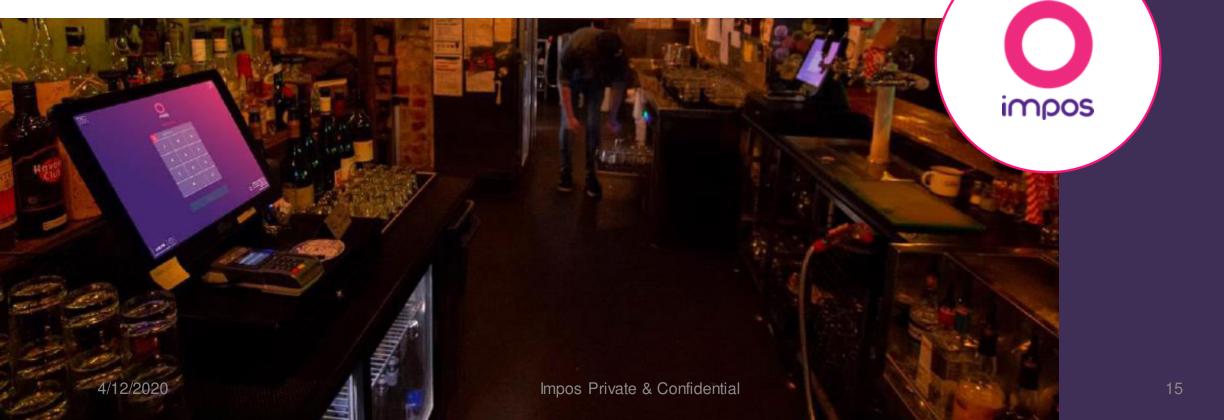


Wei Min ZengClark KhoHead of ITSenior Technology ArchitectCWT Globelink - SingaporeAccenture - Philippines



Impos + Oracle = Better Together

December 2020



Impos Snapshot

Leading provider of point of sale software, hardware and Software as a Service ("SaaS") to the Australian Hospitality Industry



Offices in Melbourne and Sydney as well as an offshore office in Manila, Philippines



~8,500 POS terminals



Customer base of 2,700 venues



~40 employees Australia wide + offshore support



24/7/365 POS system support



Real-time, cloud-based analytics for single and multi-store venues



Technology and POS solutions are developed in-house and owned by Impos



Integrated with doshii.io enabling any 3rd party app to connect with multiple POS providers



SaaS recurring revenue business model supports ongoing financial growth



Fully-featured POS system with a range of hardware options to suit the different needs of hospitality venues



Offshore Manila office enhances the ability to provide ongoing after hour service to a growing customer base



The Impos Solution



Impos Plus

- Offers a complete premium POS feature to suit all business needs as well as Impos Analytics
- Has a complete range of quality POS equipment to help venues run smoothly

impos Impos Enterprise

- Offers larger customers the option of custom development
- Streamline business reporting with Impos' powerful multi-site business intelligence tool
- Deep integration with market leading applications such as Xero, MYOB, Deputy and more



Impos Analytics

- Transactions are synchronised as they happen from the local server database to the cloud
- Allows users to monitor their business effectively in one personalised real-time dashboard as well as highquality animated graphs and charts
- Customizable reports to match different businesses' needs, available on any desktop, tablet or mobile



- POS technicians with an average of more than 9 years' hospitality experience
- Online support portal access to product information, training manuals, integration details, video tutorials and step-by-step guides

C

impos





4/12/2020

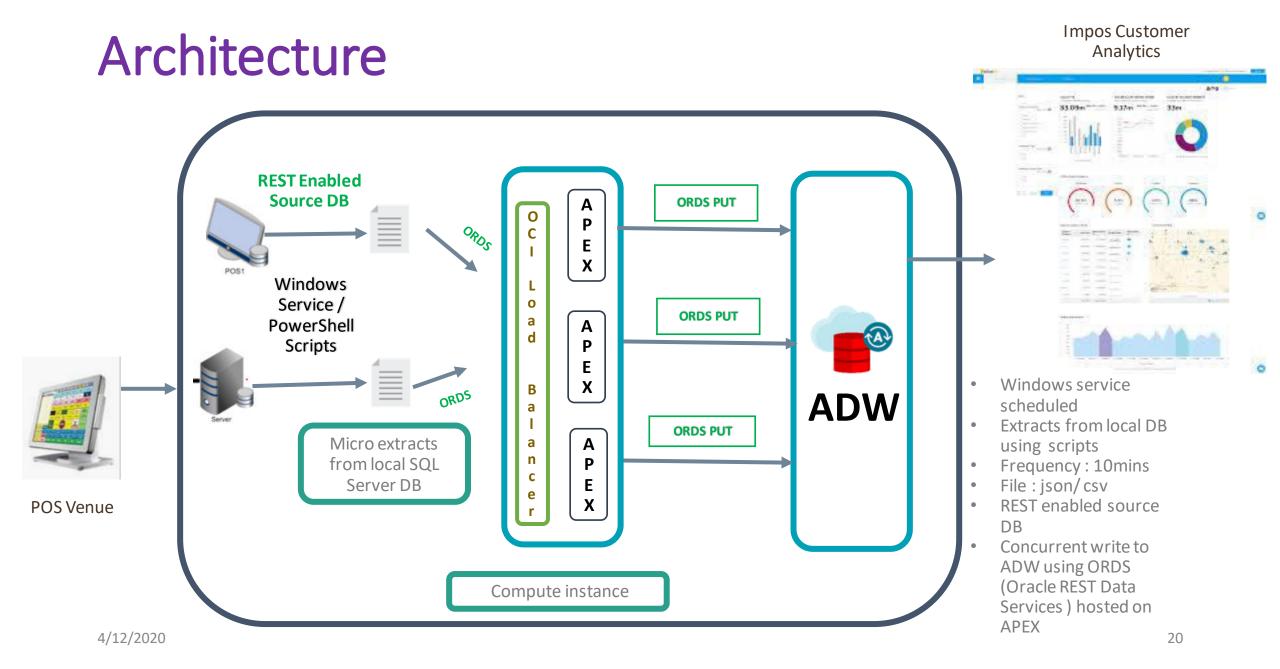
Challenges

- High and escalating cloud costs private & AWS
- Movement of data
- Multiple solutions for data movement
- Analytics performance

How Oracle helped

- laaS
- Autonomous Data Warehouse





Outcomes

- Reduced cloud costs by 80%
- Automated movement of data
- Provided a single solution
- Self-healing, self-managing, and self-patching
- Improved Analytics performance by 90%
- The ability to scale, with speed
- Delivering us the capability to provide new products for our market:
 - Analytics
 - Back-up as a Service
 - IaaS



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CWT Globelink



- Formed in 1988 to provide international freight forwarding services.
- A leading Non-Vessel Operating Common Carrier (NVOCC) operator in Asia.
- Headquarters in Singapore
- Network of more than 100 offices in 31 countries covering all major ports of the world.

Zeng Weimin

- Join CWT in 1993
- OCP on 2001.
- Has more than 20 years working experience on Oracle Database and development tools
- Transfer to CWT Globelink as project manager on 2004, building FMS (Freight Management System)
- Head of IT in CWT Globelink

FMS

Freight Management System

- A common platform used by all offices in GL group
- Covered Operation, CFS & Finance
- Developer 2000 (Client/Service model)
- Designed in 2003
- Developed in 2004
- First Implemented in Singapore in 2005

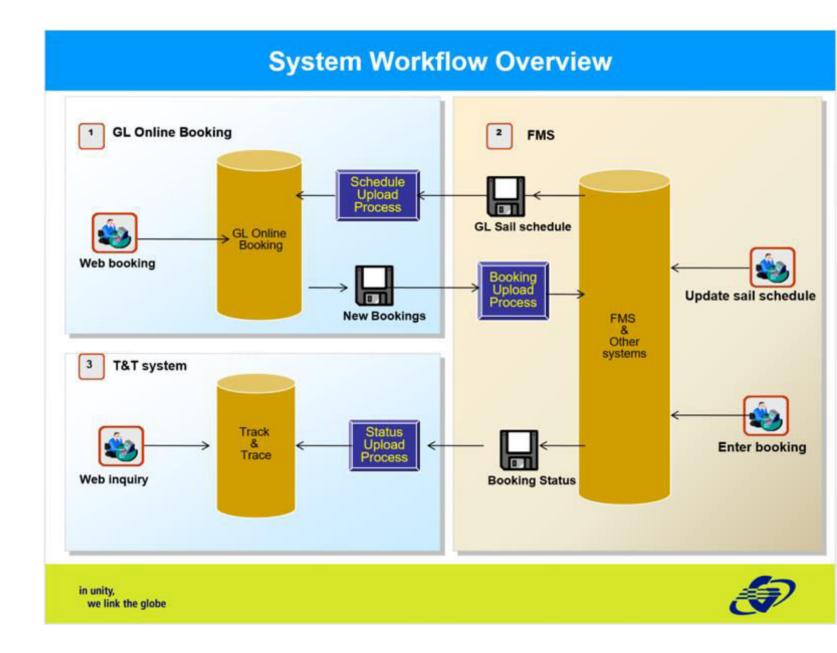


In Unity, We Link The Globe

Online FMS

Built for customer (2010)

- Sailing Schedule
- Online Booking
- Track & Trace

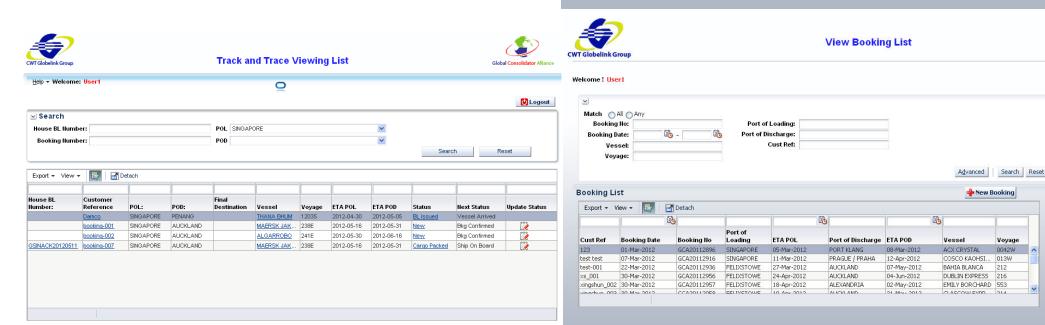


JDeveloper

- Easy to build with help of wizard
- Difficult to customize on look and feel
- Dealing with difficult parts is easy, easy parts is difficult
- Learning curve on this tool and Java

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MAERSK JAKOBSTAD	238E	SINGAPORE	16-May-2012	16-May-2012	AUCKLAND	31-May-2012	Book Now			
ACX CRYSTAL	0045W	SINGAPORE	29-May-2012	29-May-2012	PORT KLANG	31-May-2012	Book Now			
ACX PEARL	0044W	SINGAPORE	22-May-2012	22-May-2012	PORT KLANG	24-May-2012	Book Now			
AKINADA BRIDGE	060A	SINGAPORE	28-Jun-2012	28-Jun-2012	NEW YORK	19-Jul-2012	Book Now			
ALGARROBO	241E	SINGAPORE	30-May-2012	30-May-2012	AUCKLAND	16-Jun-2012	Book Now			
	1347-049N	SINGAPORE	26-May-2012	26-May-2012	KEELUNG	06-Jun-2012	Book Now			
ALTAVIA	0011E	SINGAPORE	11-May-2012	11-May-2012	QINGDAO	23-May-2012	Book Now			
ALTAVIA ANNINA SCHULTE			23-May-2012	23-May-2012	COLOMBO	28-May-2012	Book Now			
ANNINA SCHULTE	167W	SINGAPORE	201103-2012							
ANNINA SCHULTE APL AGATE	167W 078W	SINGAPORE	17-May-2012	17-May-2012	NHAVA SHEVA	27-May-2012	Book Now			
				17-May-2012 17-May-2012	NHAVA SHEVA	27-May-2012 01-Jun-2012	Book Now			

Schedule List



Booking Detail Booking Date: 01-Mar-2012 Booking Ite: GCA20112896 Port of Loading: SINGAPORE ETA POL: 05-Mar-2012 Port of Discharge: PORT KLANG ETA POD: 08-Mar-2012 Vesse: ACX CRYSTAL Voyage: 0042W Shipper: User1 Remarks: 123

😃 Log Out

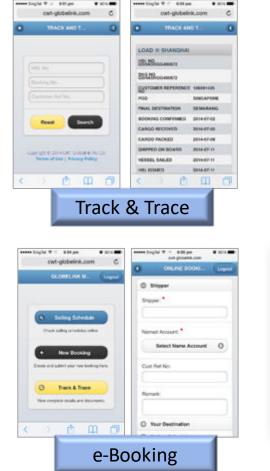
	Quantity	Package			DG
NO		Туре	Weight (KG)	Volume (M3)	
1	12	BAG	800.00	100.000	



Open Source Solution

HTML5, CSS, JQuery, JavaScript, AJAX & PHP ...





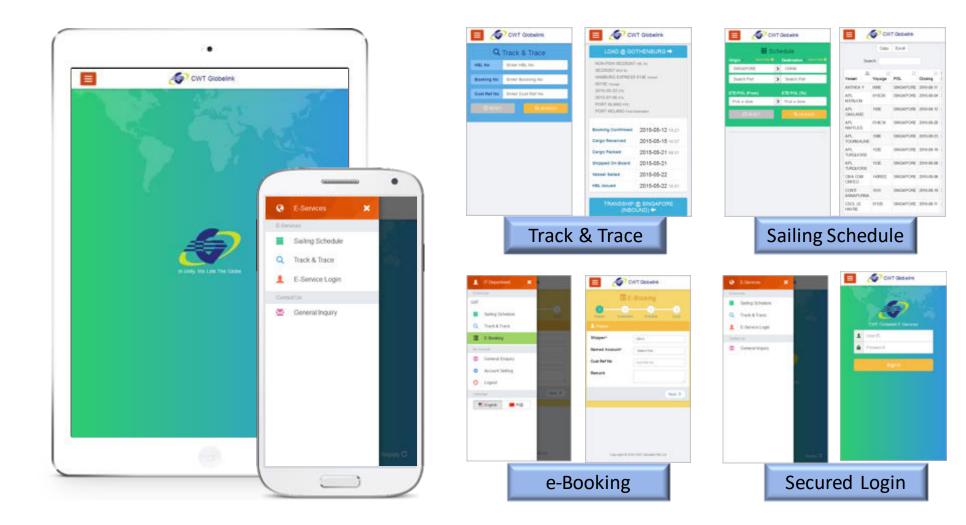


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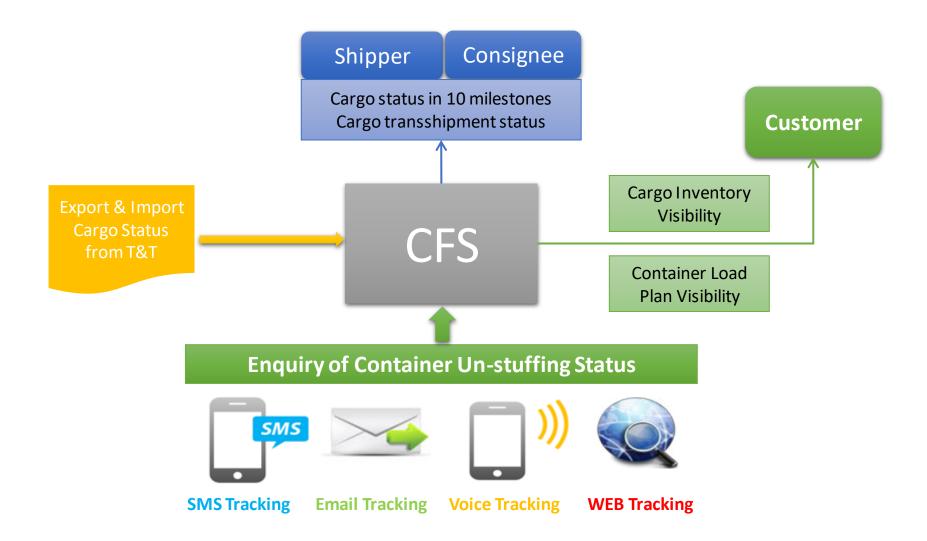
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Different Version with the same data source



Extend to Warehouse Services



Was stuck in 2016

Very hard to handle data centric project

- Planning 3 months to complete and UAT
- Changing go-live deadline each time after user test
- Estimated completion time extended to 3 years later

No framework to help on

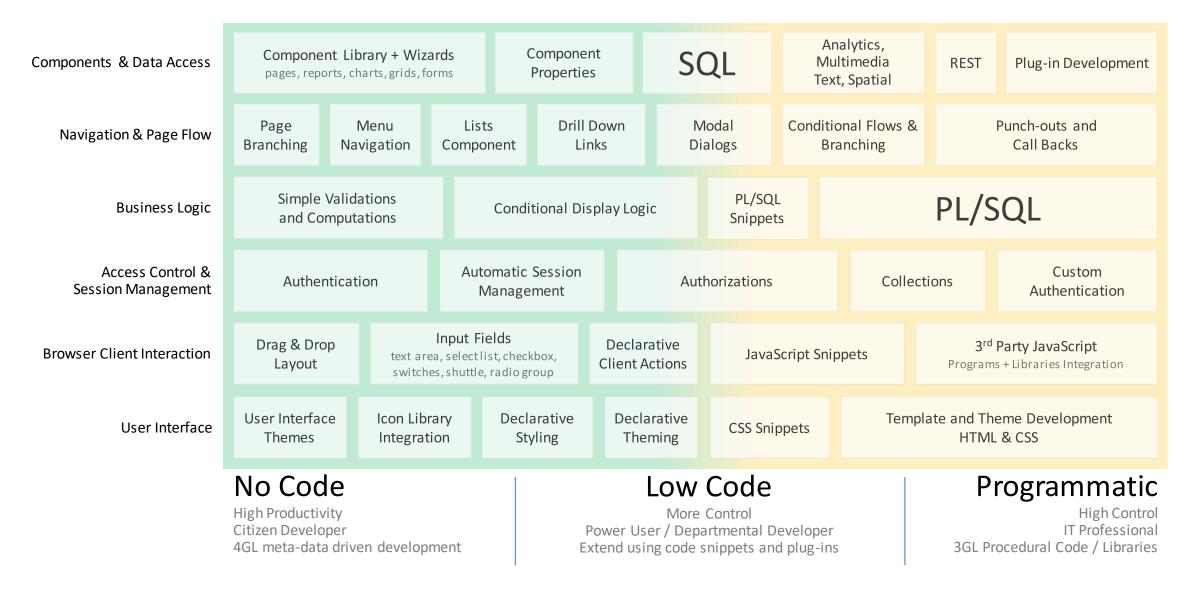
- Data manipulate (DML)
- Validation & controlling
- When business logic become more flexible and complicated
- Reuse existing program units

Do we want to build our own framework? Or Time to look around again?

APEX - Oracle Application Express

- Aligned with industry trends: Strong support for HTML5 development frameworks, Modern & responsive CSS3 UI, integrated JavaScript libraries, Browser-based, self-service provisioning, flexible development and deployment including cloud services.
- Consistent with Oracle developers skill set: SQL, PL/SQL, Oracle Database. Proficiency in the Oracle database easily translates into an ability to develop web applications.
- A perfect match with our skillsets!!

APEX Framework



Our way to Apex

- Started from small projects
- Covert existing projects
- Rebuild FMS the enterprise grade application in APEX
- All applications are under on roof

Advantages for us

- All the existing logic stored in DB as stored procedure can be reused
- Built-in data manipulate functions handle all types of transactions
- Very open to web application standard JQuery, HTML, CSS & JavaScript
- Out of box features which save lots of development time
 - Upload wizard
 - Download function
 - Support customize views for different users
- Ready to use Plugin
 - Dropbox
 - LOV
- RESTFUL service convert EDI to API
- Many other APIs

IT Strategy - 2013

To integrate Globelink IT applications to a single platform by innovations leveraging on the power of cloud computing

Benefits of Cloud Computing:

- High performance
- Reliable & scalable
- Pay as you use as utilities
- Easy and Agile deployment
- Device & location independent
- Unlimited storage space
- Low total cost ownership
- Free up internal resources
- Highly automated



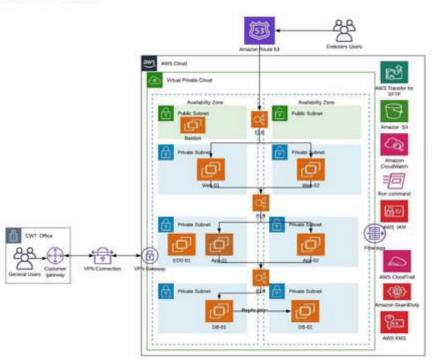
Cloud Finally

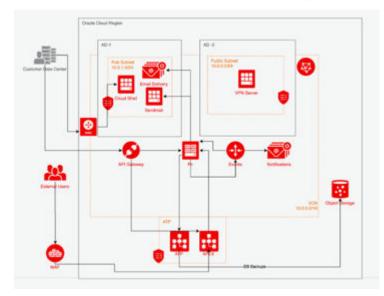
- Designed for Centralized Application but fail to implement due to poor internet performance and high cost of dedicated connections to support client-server model application
- Citrix, VMWare & Remote Desktop Connection also not work for us due to high infrastructure cost: application servers, huge memory, software licenses and Oracle Database to support many concurrent user connections
- Apex is cloud base by default together with Database

Why ATP

- What we need are all built-in: Database, APEX & Email Services
- Always the latest version and maintained by Oracle
- Auto Scalable
- Availability & Failover
- Performance 5 times faster running on huge data

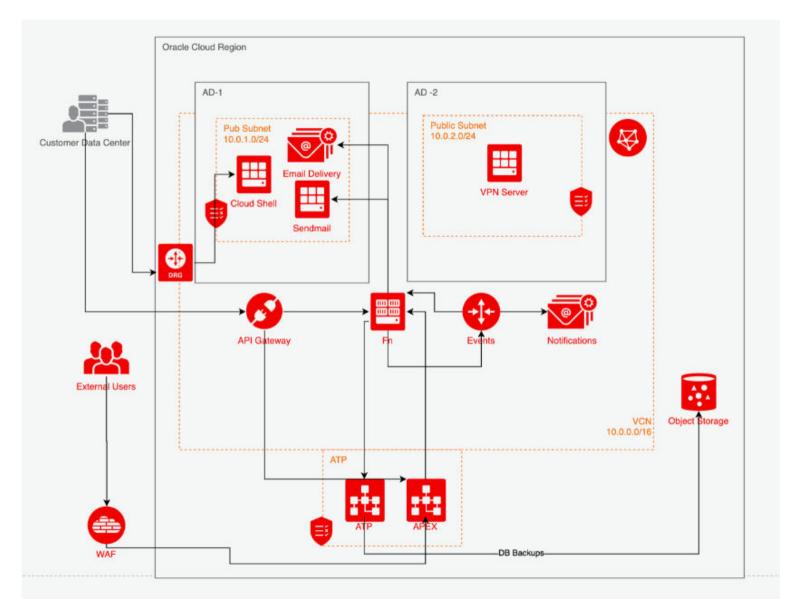
Test Script	No. of records	AWS (4 cores)	GL On-Premise (4 cores)	ATP (1 ocpu)	ADW (1 ocpu)
SELECT pol_id, pod_id, COUNT (bkg_no) FROM booking_hist WHERE com_id = '010' GROUP BY pol_id, pod_id	1,515,140	42.8 seconds	38.5 seconds	8.6 seconds	0.44 seconds





Architecture Diagram

Oracle Cloud Application Architecture



Saving

- High Performance
- Lower cost by ATP integrated solution for APEX
- Turn our time from maintenance & recovery to innovation via developing our application

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Andrew Paynter Group CEO Impos - Australia









Clark Kho Wei Min Zeng Head of IT Senior Technology Architect CWT Globelink - Singapore Accenture - Philippines



DESTINATION: AUTONOMOUS INNOVATIONS

INNOVATION@SCALE WITH THE ORACLE CLOUD

3 DECEMBER 2020

Material, Non-Public—Not To Be Distributed Further



INTRODUCTION







CLARK KHO DIRECTOR AND SENIOR TECHNOLOGY ARCHITECT

ORACLE GLOBAL TECHNOLOGY LEAD

- More than 25 years of Database Experience
- Accenture Global Database Lead
- Accenture Global Oracle Technology Lead
- Oracle Certified Professional 8i-12c
- First Oracle Certified Master in Europe: 2002
- Oracle ACE Director
- More than 10.000 hours of on-call DBA duty
- Blog at juliandontcheff.wordpress.com

ORACLE CLOUD TECHNOLOGY LEAD

More than 25 years technology experience. Provides expert support for Oracle Cloud (SaaS, PaaS, IaaS), Oracle Technology Architecture, and other Oracle Applications. Leads Accenture Advanced Technology Center for

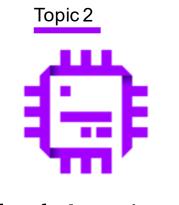
Philippines

INNOVATING WITH ORACLE CLOUD TOPICS FOR TODAY





Innovation landscape



Platform for Innovation

Topic 3



Demonstrating Live Innovation



Future thinking

MOST ORGANIZATIONS ARE FACING AN INNOVATION ACHIEVEMENT GAP

AT THE SPEED // OFSNAR

To scale innovation, companies need systems that seamlessly adapt to business and technology change.

Advances in trusted data and intelligent technologies power systems that learn and improve by themselves, and help people take confident action.

LET'S CREATE THE PLATFORM

LIVE!

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Go to **CLOUD.ORACLE.COM**

Q Ask "HCM"

② View Accounts

Try Oracle Cloud Free Tier

Gen 2 Cloud Infrastructure

Elastic, highly available, and secure

Oracle Cloud Infrastructure delivers the elasticity and efficiencies of public cloud with the granular control, security, and predictability of on-premises infrastructure.

Cloud Applications

Complete suite of integrated apps

Streamline your business processes. With ERP Financials, Procurement, and more, you can increase productivity, lower costs, and improve controls.

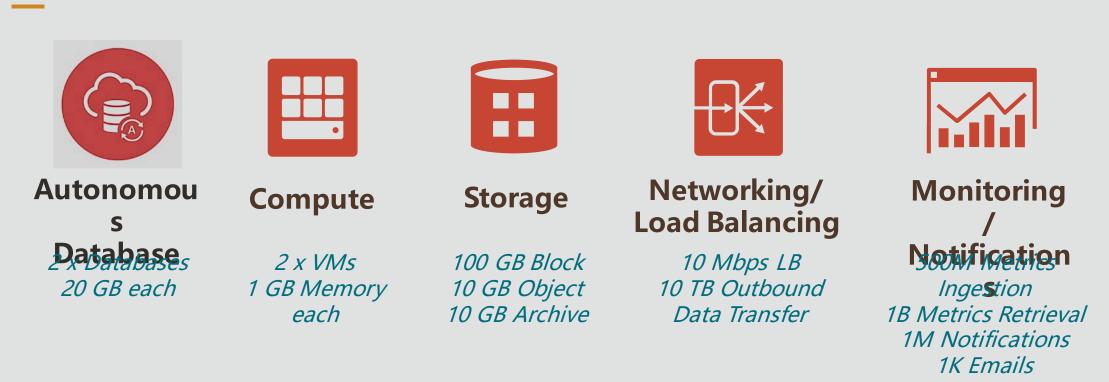
Oracle Cloud Day Online

Explore and discover cloud technologies through customer success stories, a must-see keynote, live Q&A, and a virtual partner expo. May 5, 9:00 a.m. PT.

Register for free

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Always Free – What's Included



Available to All New and Existing Cloud Accounts

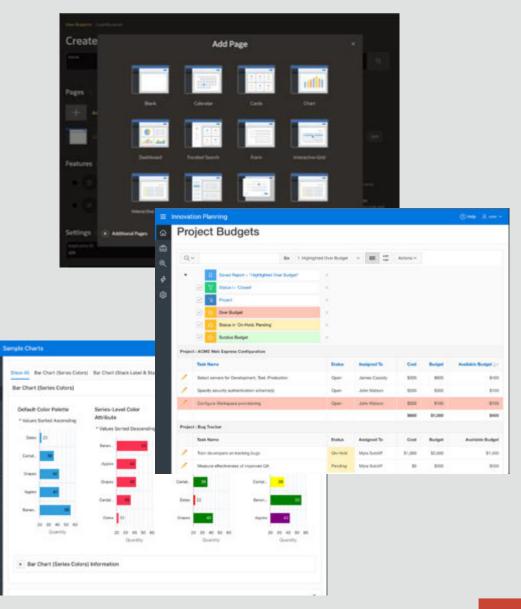
LET'S BUILD OUR APP IN MINUTES

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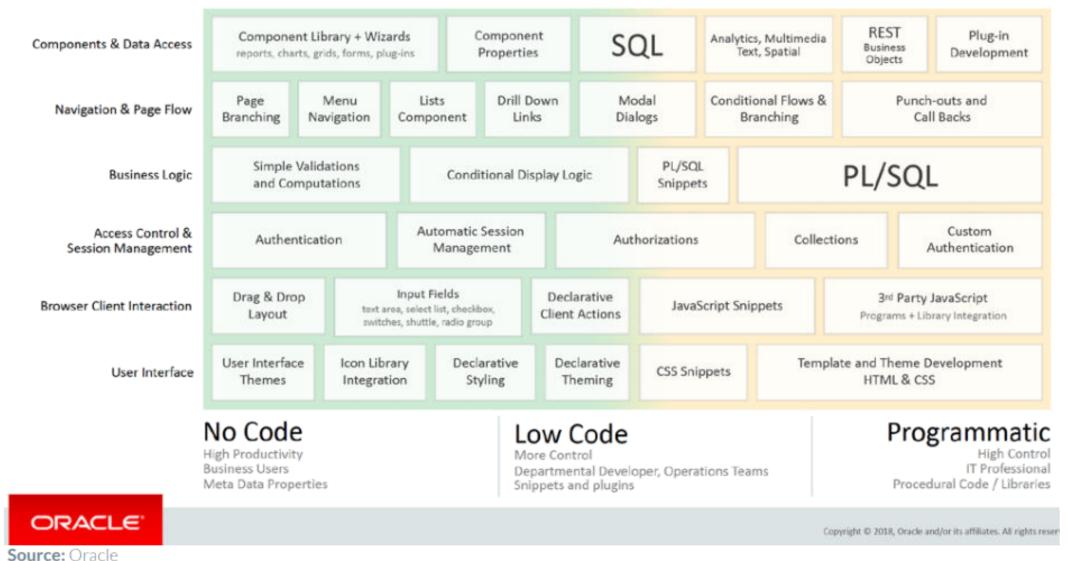
What is Oracle APEX?

Oracle Application Express (APEX) is a low-code development platform that enables you to build scalable, secure enterprise apps, with world-class features, that can be deployed anywhere.

- ✓ Simple
- Powerful and Proven
- ✓ Secure
- ✓ Portable



APEX PROGRAMMATIC SPECTRUM 3 Developer Persona



AUTONOMOUS STANDBY

ACCUMULATING AND PREPARING INFORMATION FOR USE IS ONE OF THE BIGGEST CHALLENGES FOR ORGANIZATIONS THAT DEPLOY SYSTEMS.



Fusion Analytics Warehouse

How CFOs/CHROs gain a Holistic View and become Data-driven



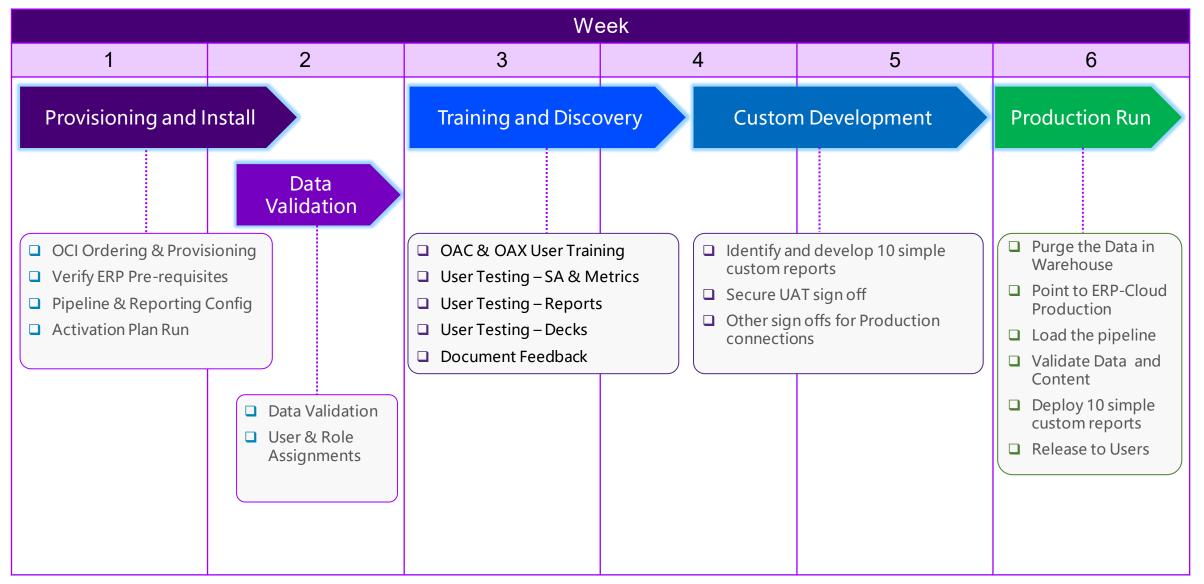
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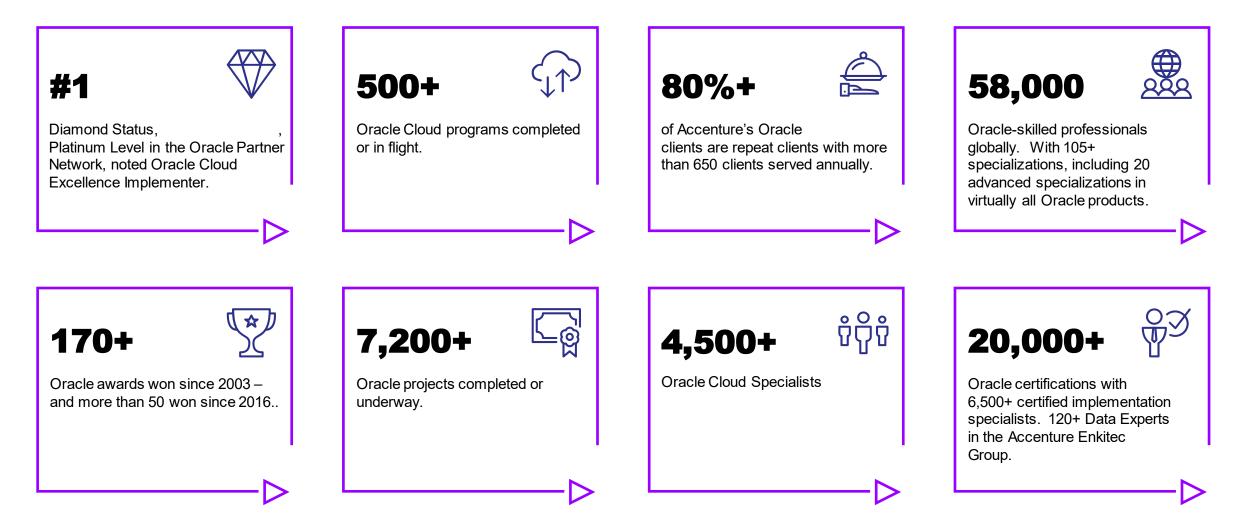
\$537,94M

Weekly Plan for FAW Rapid Implementation



ORACLE PRACTICE FACTS

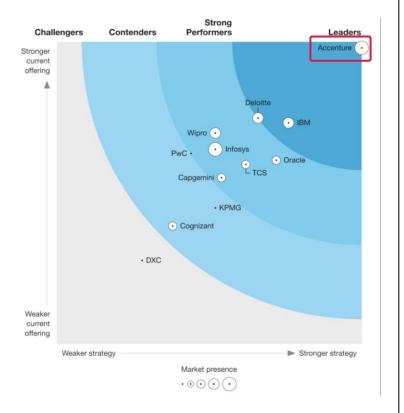
Through the Oracle Business Group, Accenture helps its clients win today and own tomorrow—synchronizing innovation and growth to unleash the power of the intelligent enterprise.





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FORRESTER WAVE™: SERVICE PROVIDERS FOR NEXT GENERATION ORACLE APPLICATIONS



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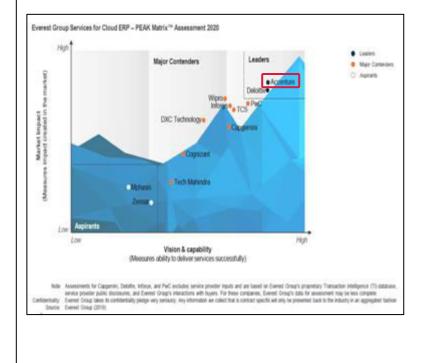
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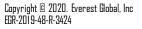
IDC MARKET SCAPE POSITION™: WORLDWIDE LEADER IN ORACLE IMPLEMENTATION SERVICES



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EVEREST GROUP: LEADER IN SERVICES FOR CLOUD ERP





REASONS TO USE ORACLE CLOUD FOR INNOVATIO

- Focus on application development and productivity, and not get bogged down by maintenance activities
- Rapid deployment
- Powerful free offering that beats the competition

QUESTIONS



