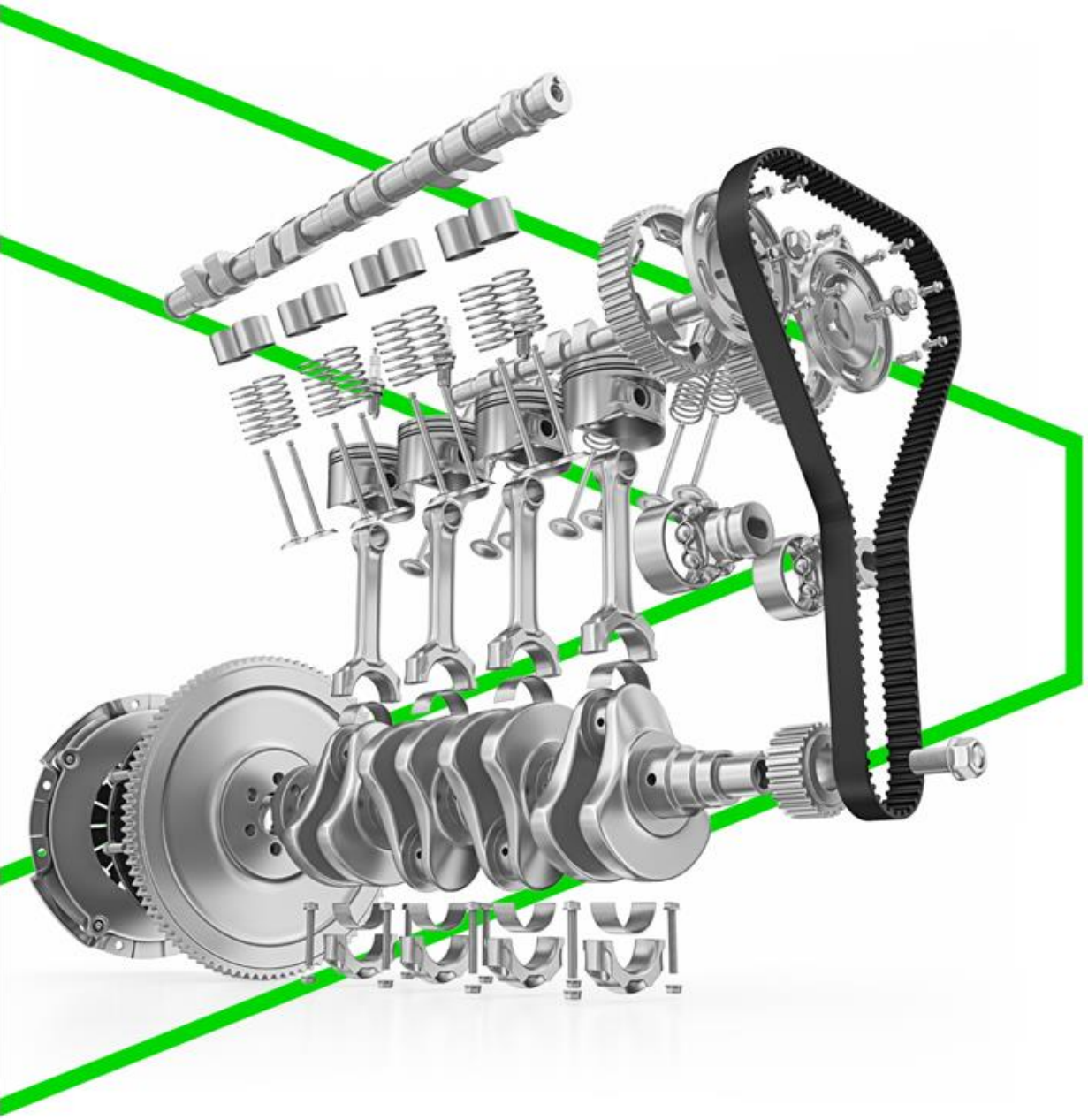
Oracle
Cloud Day

Highlights from San Francisco Oracle OpenWorld 2018

Julian Dontcheff, Master Technology Architect &
Managing Director, Accenture

ORACLE



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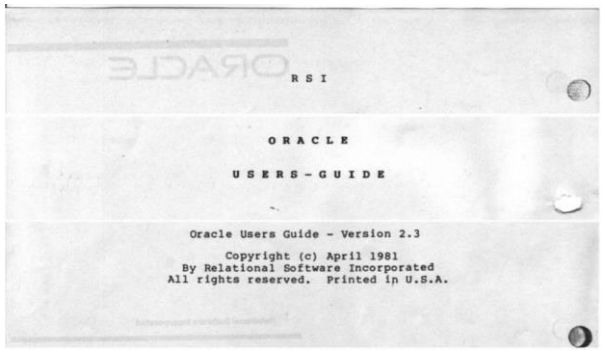
Accenture Oracle Business Group

ACCENTURE BETA TESTING OF ORACLE AUTONOMOUS DW CLOUD

November 2018

THE ORACLE AUTONOMOUS DATA WAREHOUSE CLOUD:



COMBINING CLOUD AND MACHINE LEARNING INTO THE WORLD'S FIRST SELF-DRIVING, AUTONOMOUS DATABASE

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CAN THE WORLD'S FIRST AUTONOMOUS DATABASE UNLEASH THE INTELLIGENT ENTERPRISE?

ACCENTURE TESTED THE AUTONOMOUS DATA WAREHOUSE CLOUD ON A REAL APPLICATION, RUNNING REAL-WORLD WORKLOADS

- Tests performed at multiple Accenture locations and innovation centers
- Conducted by a team of Accenture's Oracle data specialists
- Data replicated on both the Oracle Database Cloud Service and the Autonomous Data Warehouse Cloud

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EXTREMELY FAST

TESTING SHOWED SIGNIFICANT SPEED IMPROVEMENT

- Inserting 500 million rows of data took less than three minutes, on average
- 1.6x performance improvement compared to published findings
- 14x performance acceleration

FEATURE COMPARISON

DATABASE PROVISIONING

MANUAL INSTALL*

4 HOURS

DBCS

1 HOUR

ADWC

SECONDS

SCALE UP / DOWN HARDWARE

PHYSICAL HARDWARE

Not possible as the hardware is not elastic

DBCS

30 MINUTES

Database is down while scaling is happening

ADWC

SECONDS

Database remains active while scaling is happening

*assume hardware is already procured

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TESTING APPROACH

Utilizing an existing cloud based analytics application called PRETT [Platform Resource Enablement Tracking Tool] running on OACS [Oracle Analytics Cloud Service]. Data will be replicated in DBCS and ADWC to provide a real life application usage experience

The data will then be extrapolated and expand based on that existing application to simulate ADWC functionality.

SPRINT 1
BASELINE

- Compare like to like data volume in OACS[DBCS] to OACS[ADWC]
- 3 Month Data volume
- Run and compare performance in OACS[ADWC] and compare with baseline OACS[DBCS] information

SPRINT 2
EXTRAPOLATE

- Create 9 years of data on ADWC based on the 3 month live data to then compare performance on high volume data.

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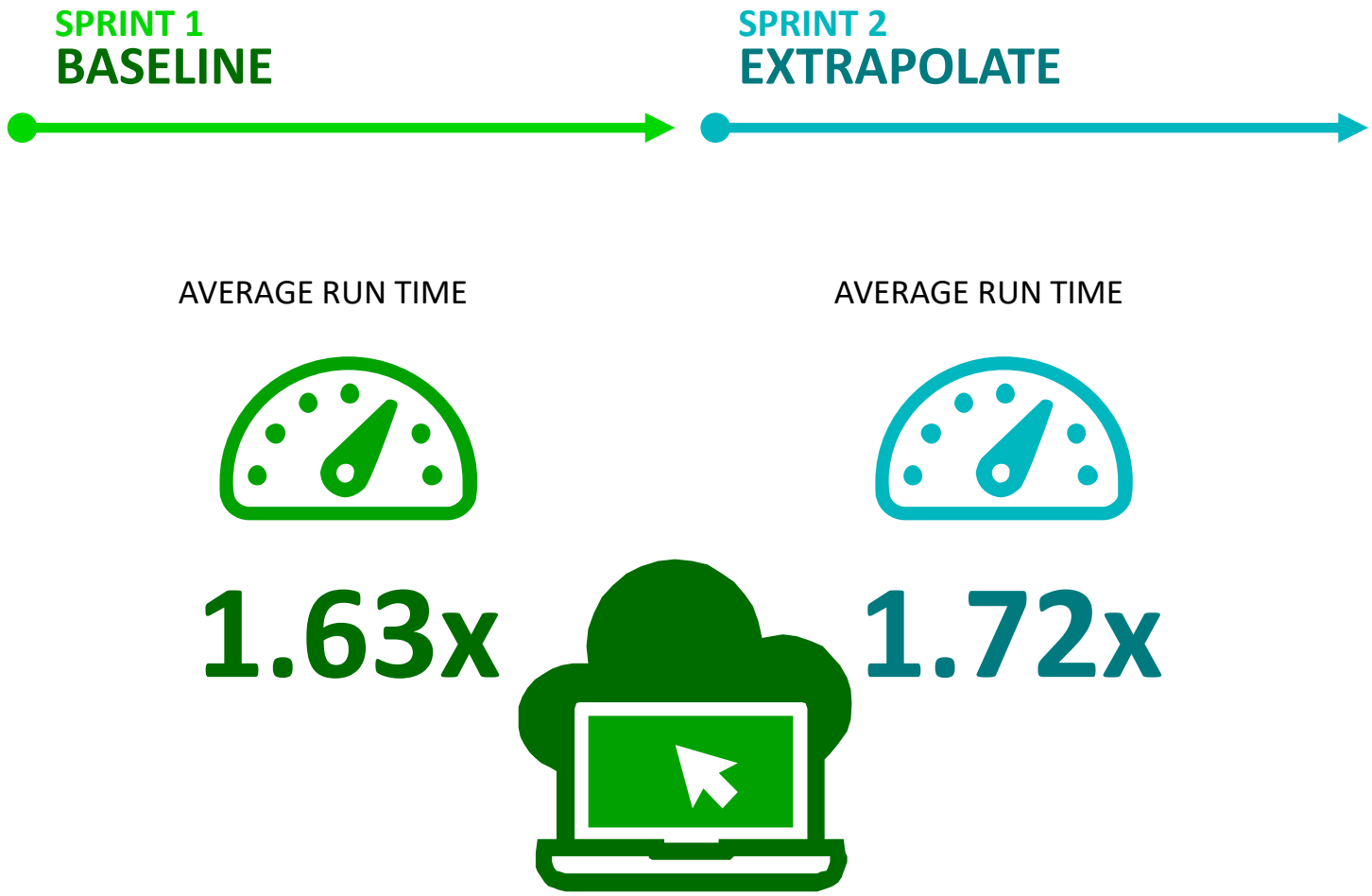
TESTING RESULTS

ADWC IS CONSISTENTLY PERFORMING FASTER



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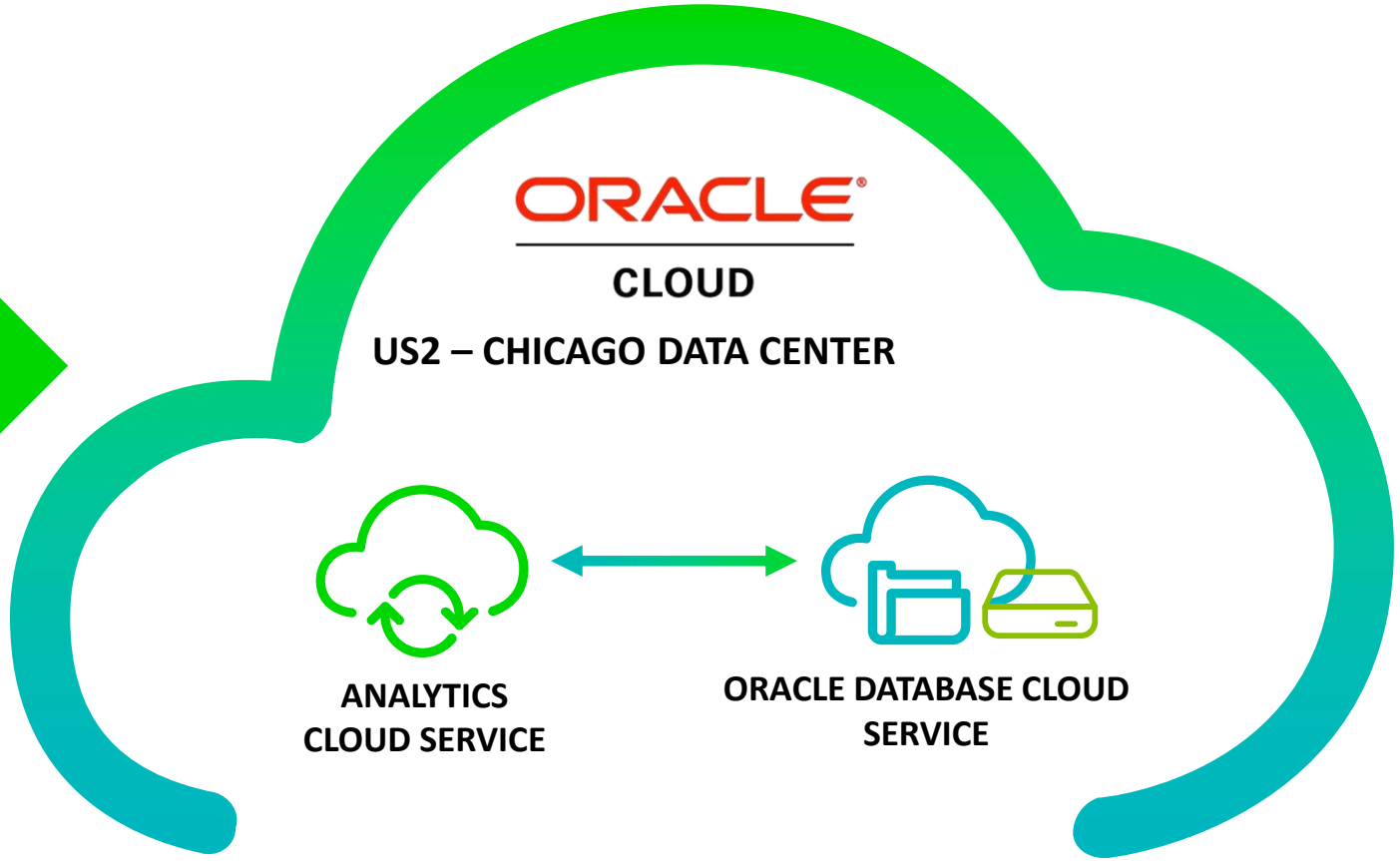
ORIGINAL ARCHITECTURE



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ARCHITECTURE USING ADWC

ORACLE CLOUD

US2 – CHICAGO DATA CENTER

METADATA ONLY

ANALYTICS CLOUD SERVICE

ORACLE DATABASE CLOUD SERVICE

ORACLE CLOUD

ASHBURN DATA CENTER

AUTONOMOUS DATA WAREHOUSE CLOUD

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Super Fast System with Reduced DBA Dependency

Company Overview

Accenture is a leading global professional services company, providing a broad range of services and solutions in strategy, consulting, digital, technology and operations. Combining unmatched experience and specialized skills across more than 40 industries and all business functions—underpinned by the world's largest delivery network—Accenture works at the intersection of business and technology to help clients improve their performance and create sustainable value for their stakeholders.

Solution Overview

Developing an analytics application running on OACS and ADWC

- To assure end user adoption of the application, architecting for maximum performance and efficiency with autonomous database technologies
- The application determines how efficient our people enablement programs in getting our employees job-ready to be effective in their assignments.
- This system will eventually be used as insights to improve the process and eventually predict future enablement needs for various skills needed for future assignments.
- Data comes from various sources like bench data, training data, skills data, project assignment data.

Benefits

- Reduce reliance on DBAs for operational areas
- Having limited budget to build/support application, reducing the need for a dedicated DBA is a benefit
- Minimize the need to remember to apply patches ensuring database is secured
- Better performance for the application

Quote

"We are at the dawn of the intelligent, autonomous age and having a **self-driving database** is a natural progression. Freeing DBAs from the basic operational nuances of running a database is of tremendous value. I feel that **autonomous databases** will become ubiquitous in the future"

Clark A. Kho , Senior Technology Architect, Accenture

"ADWC is super fast compared to other similar systems!"

Julian Dontcheff, Managing Director – Accenture Technology, Oracle Global Technology Lead

ORACLE®

Highlights from San Francisco Oracle OpenWorld 2018

James Ek, CX Sales Director, Oracle
Jonas Qvarfordt, Sales Director, Oracle

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THE EXCHANGE

48	253	18	219	148
SPONSORS	EXHIBITORS	SHOWCASES	DEMOS	THEATER SESSIONS

SPEAKERS FROM MORE THAN **93** COUNTRIES

67,721 YEARS OF INDUSTRY EXPERIENCE

2,371 UNIQUE SESSIONS

85% found learning at OpenWorld more memorable than traditional conference sessions

HOT TOPICS

CLOUD

UPGRADE

AI

ORACLE AUTONOMOUS DATABASE

CLOUD APPLICATIONS

SECURITY

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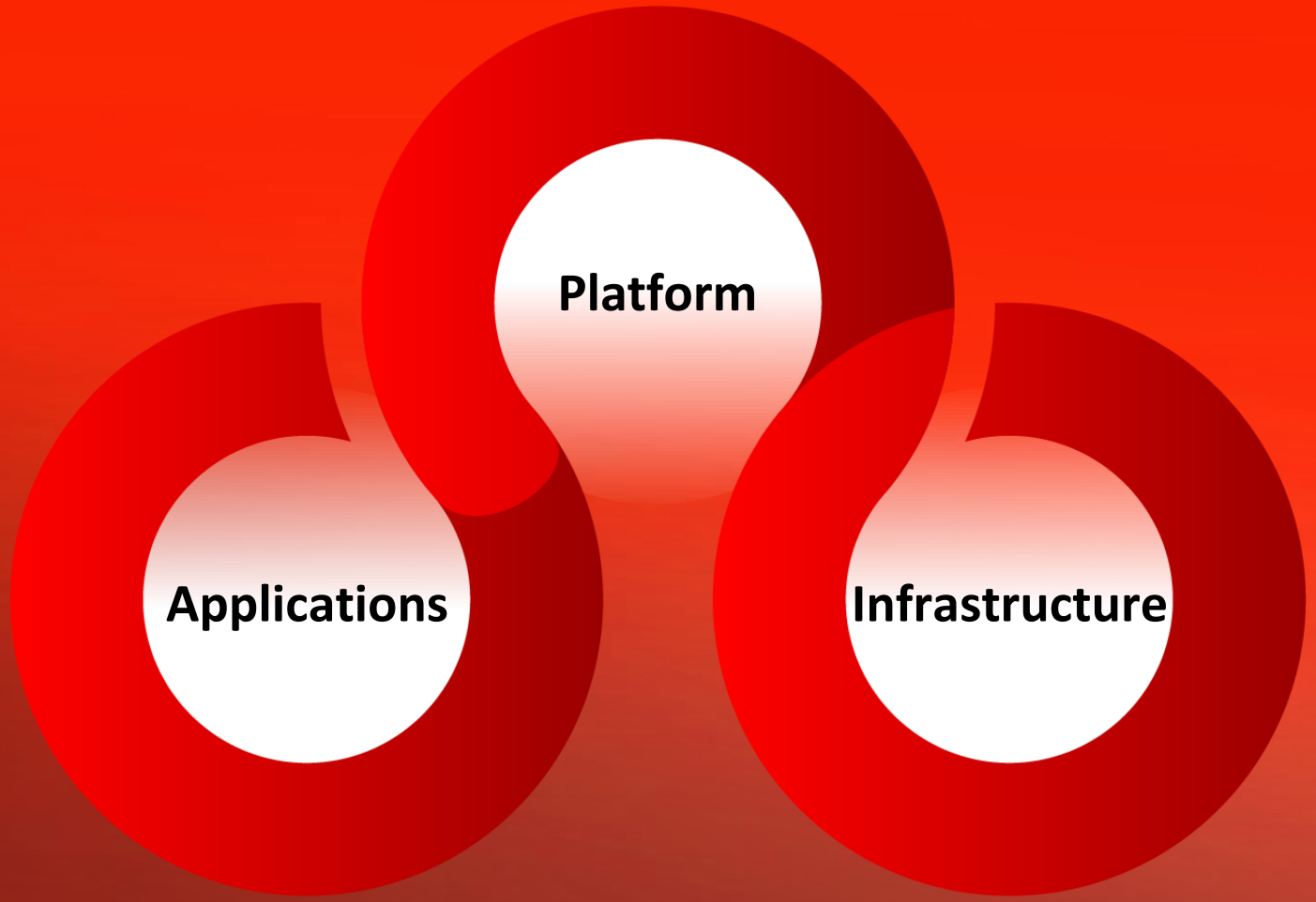

Oracle Cloud

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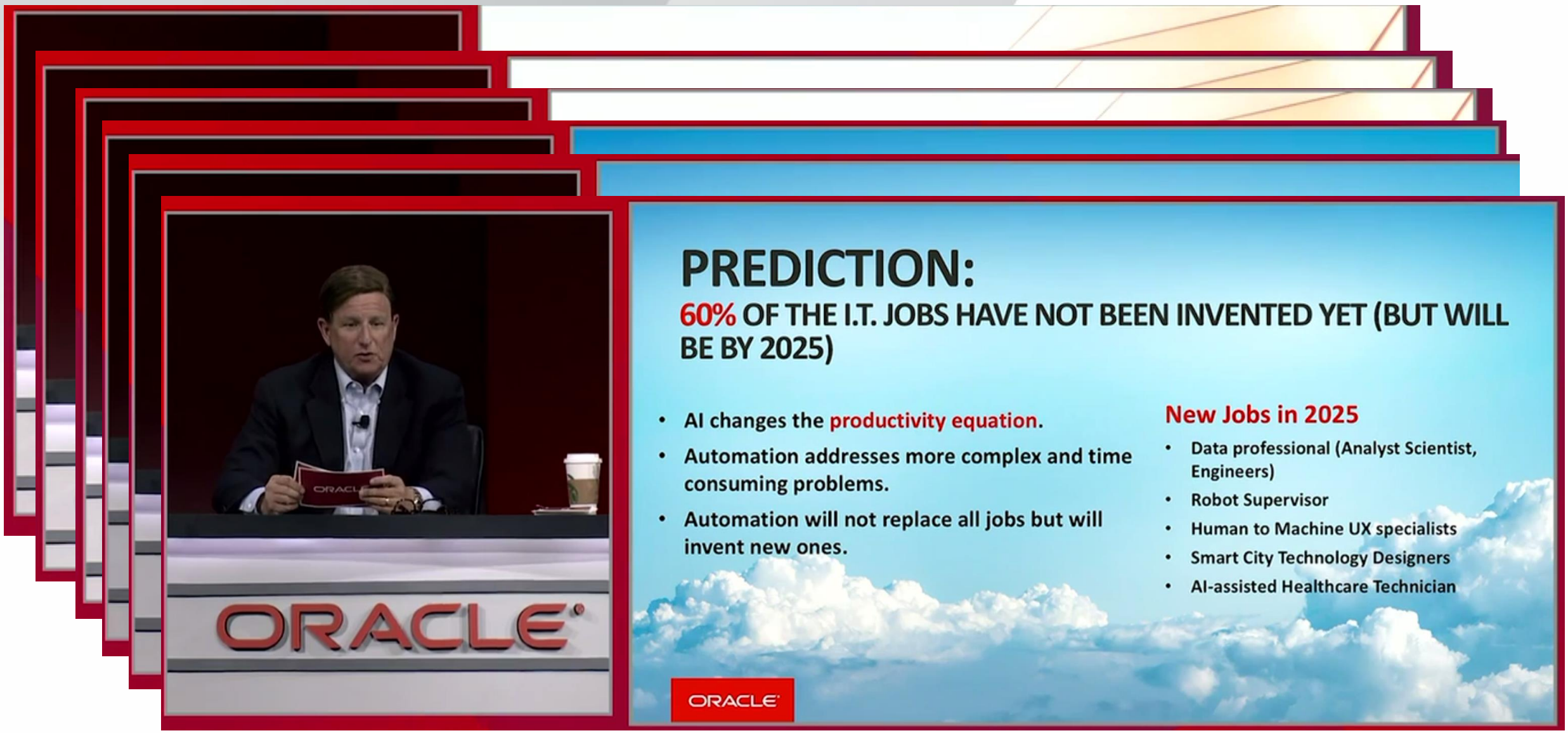
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PREDICTION:
60% OF THE I.T. JOBS HAVE NOT BEEN INVENTED YET (BUT WILL BE BY 2025)
• AI changes the productivity equation.
• Automation addresses more complex and time consuming problems.
• Automation will not replace all jobs but will invent new ones.
New Jobs in 2025
• Data professional (Analyst Scientist, Engineers)
• Robot Supervisor
• Human to Machine UX specialists
• Smart City Technology Designers
• AI-assisted Healthcare Technician
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Fusion Cloud: Enterprise Cloud Applications

Complete and Integrated Suites: ERP, SCM, HCM, CX

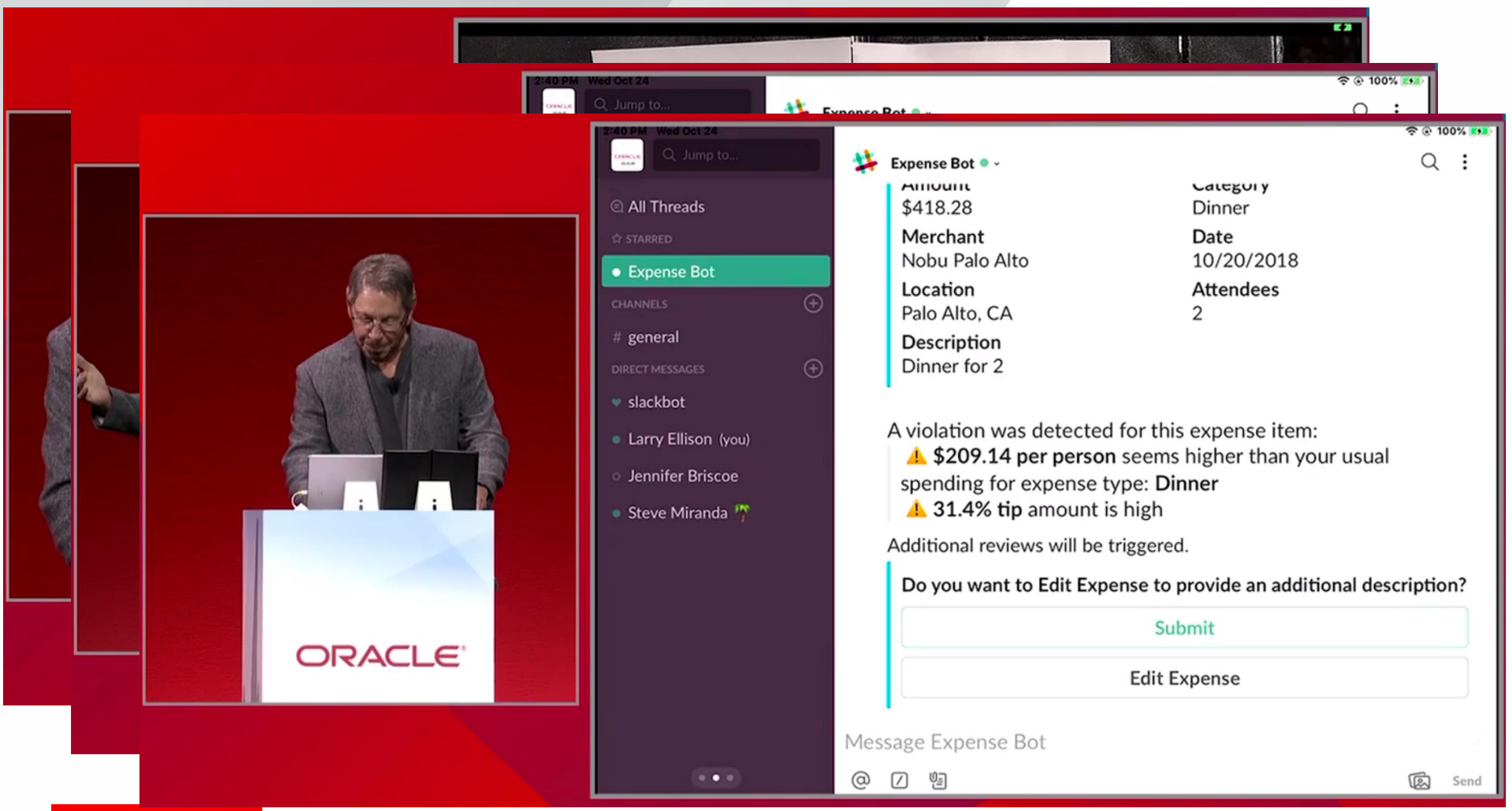
Fusion Cloud Applications – Secure & Extensible

Built on Generation 2 Cloud Platform with Machine Learning

Fusion Cloud Applications: Huge Productivity Gains

Because it's Built on Modern Machine Learning Technology

- Business Automation: Latest Information + Huge Productivity Gains
  - Automatic Continuous Daily Close: Consolidations across all subs and currencies
  - Automatic Performance Management: Budget versus actuals compared every day
  - Automatic Document Capture: Paper documents scanned with near 100% accuracy
  - Automatic Fraud Detection: Inspect invoices, expenses… for data anomalies
  - Automatically optimizes your supplier payments and cash positions
  - Automatically finds your best performing employees
  - Automatically finds your best employee candidates


2:40 PM Wed Oct 24
Jump to...
100%
Expense Bot
All Threads
STARRED
Expense Bot
CHANNELS
general
DIRECT MESSAGES
slackbot
Larry Ellison (you)
Jennifer Briscoe
Steve Miranda
$418.28
Dinner
Merchant
Nobu Palo Alto
Date
10/20/2018
Location
Palo Alto, CA
Attendees
2
Description
Dinner for 2
A violation was detected for this expense item:
⚠ $209.14 per person seems higher than your usual spending for expense type: Dinner
⚠ 31.4% tip amount is high
Additional reviews will be triggered.
Do you want to Edit Expense to provide an additional description?
Submit
Edit Expense
Message Expense Bot
Send
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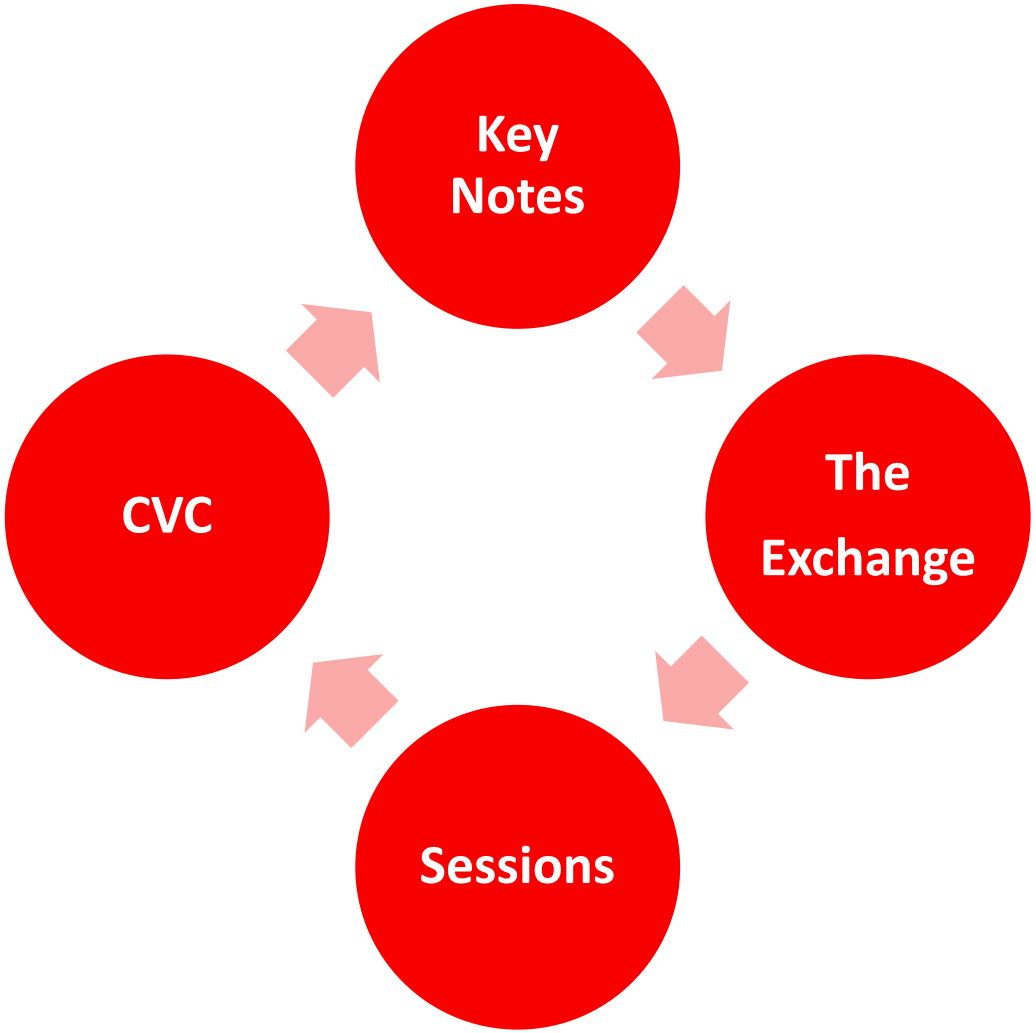
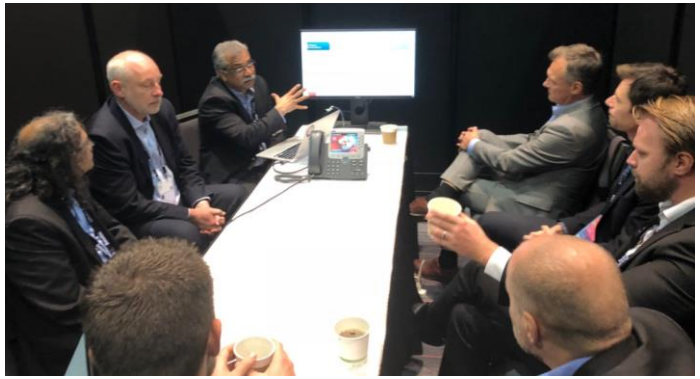
Oracle Open World Event Flow





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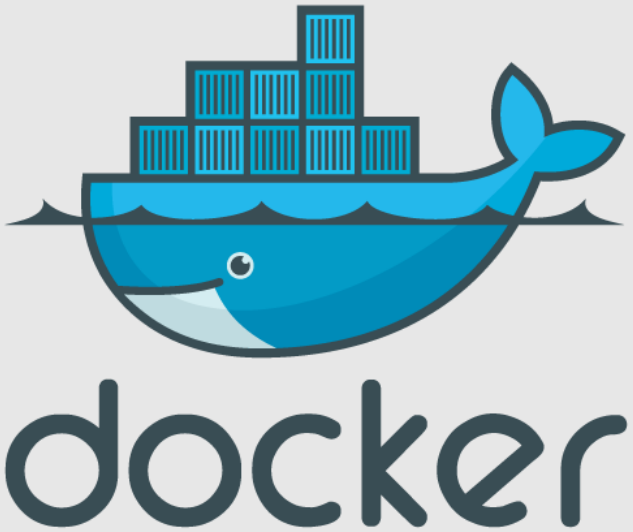

UiPath

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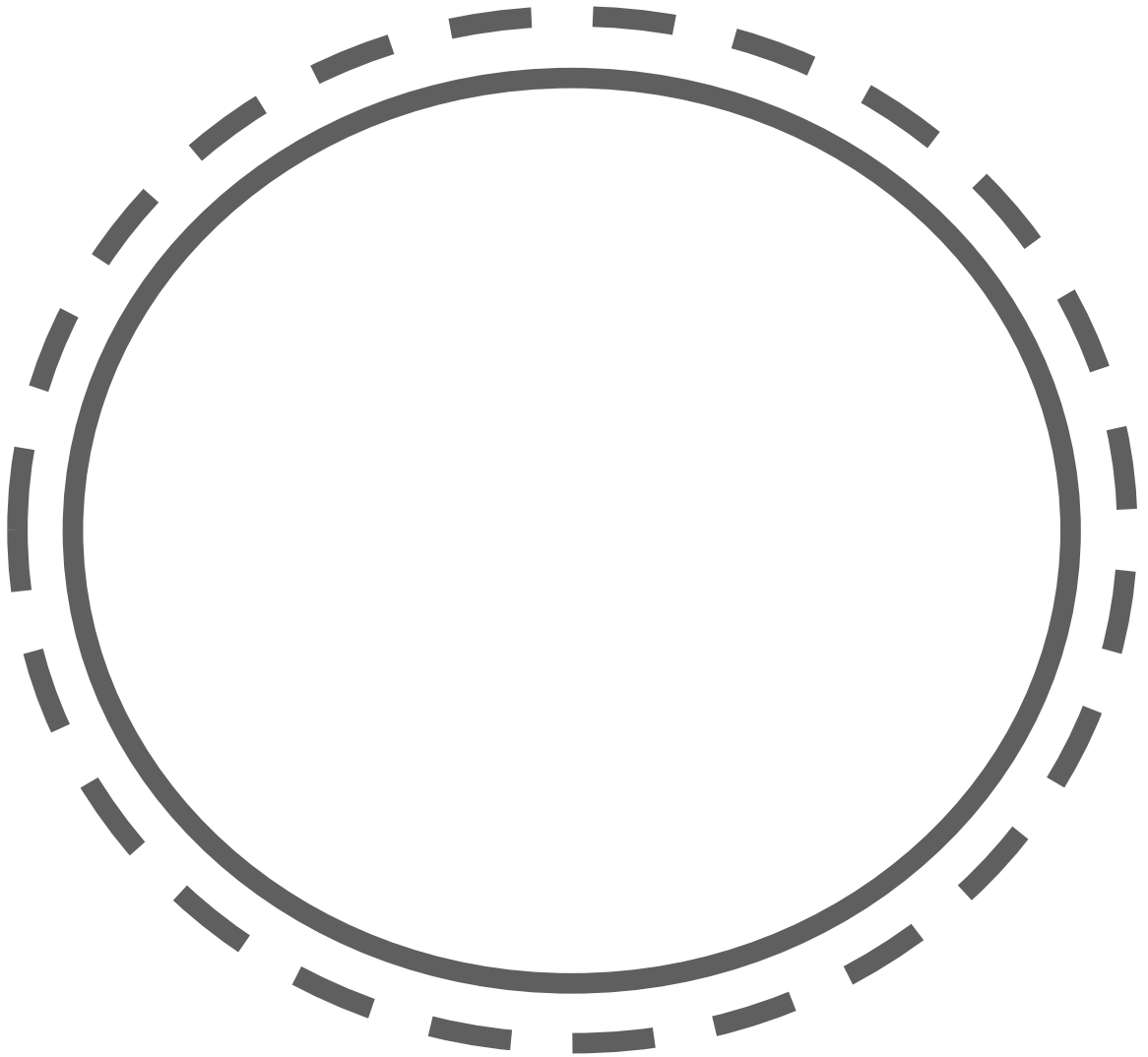
360
360



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SAP center

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Marina Bay Sands Singapore
26–27 March 2019

Register Today oracle.com/openworld/global

Registration is complimentary.

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Thank you!

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