JD Edwards for Tomorrow

Nynas AB Using JD Edwards with Oracle Cloud Infrastructure to transform Customer Experience

Overview:

Nynas AB's JD Edwards user organisation was facing challenges to scale its end-customer experience. Discover how Oracle Cloud Infrastructure was leveraged to achieve the transformation

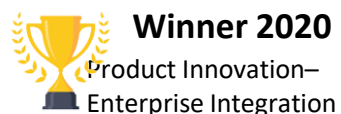Hear from Nynas AB's Ann-Kristin Weihe, about the transformation journey that helped in:

- Improved time-to-market by 300%
- Amplify customer's visibility to better plan, procure and execute
- Create multiple interactive channels for customers
- Reduce IT integration cost by 40%
- Accelerate inter-departmental collaboration

Join the webinar to uncover role of Oracle Cloud Infrastructure in setting up reliable solution for business continuity

What will this webinar cover?
- Use of Oracle Cloud to handle a Customer Portal for Nynas AB
- Digital integrations with JD Edwards and surrounding systems
- Risk Mitigation, Compliance & Operational flexibility with OCI
- Q&A with experts

Providing outstanding JD Edwards Transformational Programs since 2001

ORACLE® Platinum Partner
Specialized
JD Edwards EnterpriseOne

ORACLE® Platinum Partner Cloud Select North America
Oracle Cloud Managed Service Provider

Winner 2020
Product Innovation–
Enterprise Integration

Winner 2020
JDE Champion –
Digital Product Creation

SPEAKERs

Nynas AB
Ann-Kristin Weihe
IT Applications Manager,
Corporate & Sales

Oracle
Mark Herwege
Sr. Solution Engineer

LTI
Rana Beteille
Global JDE Practice Head

LTI
Wasim Raza
Head Solution Architect

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JD Edwards for Tomorrow

16th September 2021

Speakers

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IT Applications Manager,
Corporate & Sales, Nynas AB

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IT Leader with over 20 years
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governance and delivery
management for JD Edwards
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Nynas corporate and sales
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Global Practice
Head, LTI

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IT Leader with over 31 years of
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transformations, strategy,
governance and delivery
management for JD Edwards
EnterpriseOne and other
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Oracle Solution Consultant with
over 25 years of experience with
JD Edwards, helping Oracle JD
Edwards customers to understand
the full capabilities of the JD
Edwards EnterpriseOne solution
to support digital transformation
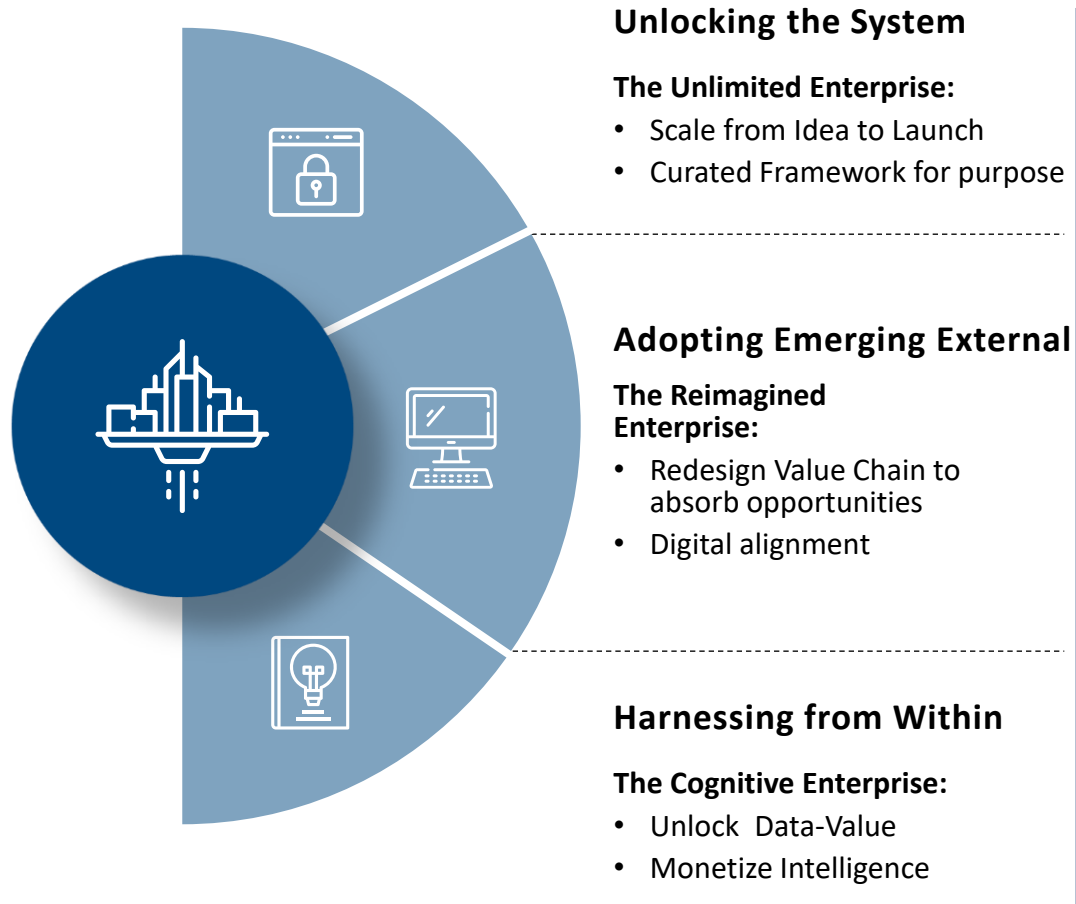
Wasim Raza

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Solutions, LTI

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Head Solution Architect with
20 years of experience in JD
Edwards EnterpriseOne, IT
infrastructure and Cloud
technologies. Heading LTI's
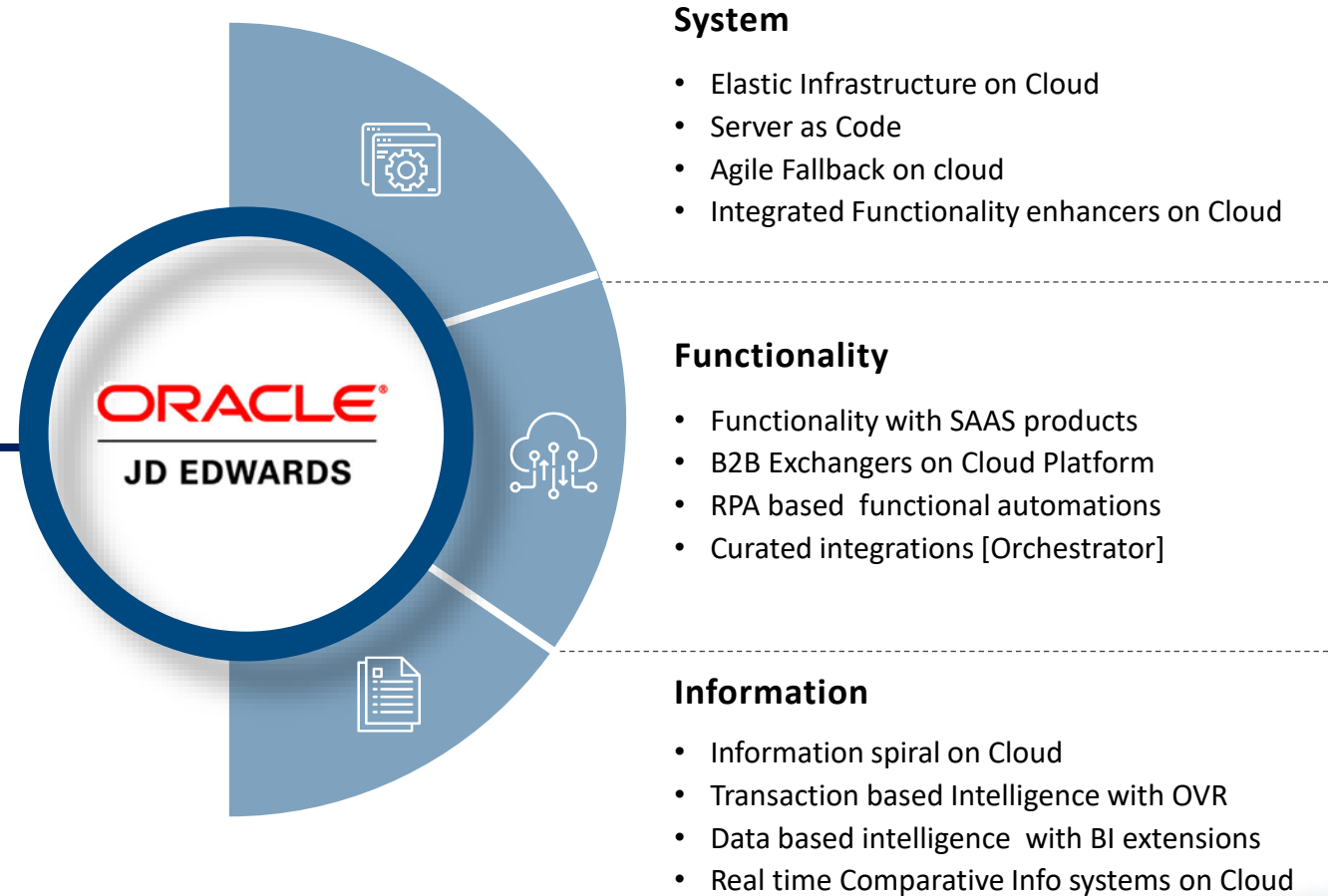Centre of Excellence for JD
Edwards Practice

Agenda

Subject	Details
JD Edwards For TOMORROW	Introduction and set context Adopt and Innovate to Maximize Business Value (Speaker – Rana Beteille, LTI)
Introduction to Nynas AB	Introduction to Nynas AB (Speaker - Ann-Kristin Weihe, Nynas AB)
Nynas AB, Journey To Cloud	Digital Solutions @Nynas - Customer Portal, Digital Integrations and Disaster Recovery – On Oracle Cloud Infrastructure (Speaker - Wasim Raza, LTI)
Why Nynas Chose This Approach ?	Business Benefits (Speaker - Ann-Kristin Weihe, Nynas AB)
Oracle View	Oracle JD Edwards and the Cloud (Sepaker - Mark Herwege, Oracle)
Way Ahead	Closing Notes (Speaker – Rana Beteille, LTI)
Q&A	

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Enterprise of Tomorrow

JD Edwards for Tomorrow

LTI INFINITY Platform for Journey to Cloud

Unlocking the System

The Unlimited Enterprise:
- Scale from Idea to Launch
- Curated Framework for purpose

Adopting Emerging External

The Reimagined Enterprise:
- Redesign Value Chain to absorb opportunities
- Digital alignment

Harnessing from Within

The Cognitive Enterprise:
- Unlock Data-Value
- Monetize Intelligence

System
- Elastic Infrastructure on Cloud
- Server as Code
- Agile Fallback on cloud
- Integrated Functionality enhancers on Cloud

Functionality
- Functionality with SAAS products
- B2B Exchangers on Cloud Platform
- RPA based functional automations
- Curated integrations [Orchestrator]

Information
- Information spiral on Cloud
- Transaction based Intelligence with OVR
- Data based intelligence with BI extensions
- Real time Comparative Info systems on Cloud

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JD EDWARDS

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Introduction to Nynas AB

Nynas is a different kind of oil company – we want to use oil, not burn it.
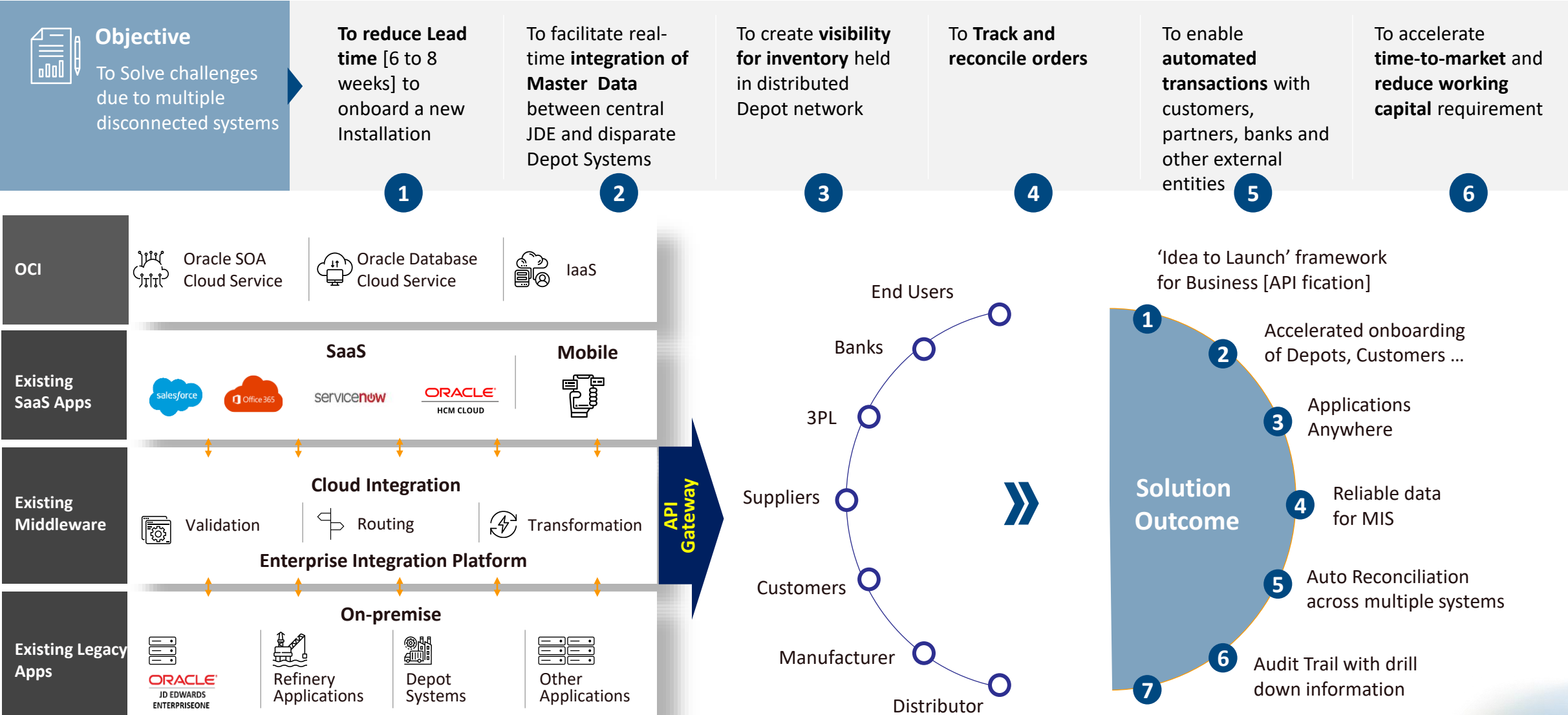
With around 1000 employees, production facilities in Europe and offices in over 30 countries, Nynas is dedicated to researching, producing and supplying specialty naphthenic oils and bitumen for a growing global market. Together with our customers, we have the know-how to find new applications and meet new challenges that can help shape society.

We take oil further to bring value to customers and the world we live in.
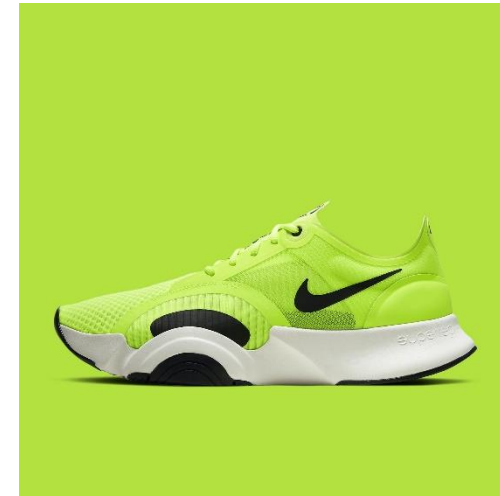
You will find the Nynas Specialty Oils in every other product

Nynas AB: Using OCI to Facilitate Digital Integrations

Objective
To Solve challenges due to multiple disconnected systems

To reduce Lead time [6 to 8 weeks] to onboard a new Installation **1**

To facilitate real-time **integration of Master Data** between central JDE and disparate Depot Systems **2**

To create **visibility for inventory** held in distributed Depot network **3**

To **Track and reconcile orders** **4**

To enable **automated transactions** with customers, partners, banks and other external entities **5**

To accelerate **time-to-market** and **reduce working capital** requirement **6**

OCI

- Oracle SOA Cloud Service
- Oracle Database Cloud Service
- IaaS

Existing SaaS Apps

SaaS | **Mobile**

salesforce | Office 365 | servicenow | ORACLE HCM CLOUD

Existing Middleware

Cloud Integration
- Validation
- Routing
- Transformation

Enterprise Integration Platform

Existing Legacy Apps

On-premise
- ORACLE JD EDWARDS ENTERPRISEONE
- Refinery Applications
- Depot Systems
- Other Applications

API Gateway

End Users
Banks
3PL
Suppliers
Customers
Manufacturer
Distributor

Solution Outcome

'Idea to Launch' framework for Business [API fication] **1**

Accelerated onboarding of Depots, Customers ... **2**

Applications Anywhere **3**

Reliable data for MIS **4**

Auto Reconciliation across multiple systems **5**

Audit Trail with drill down information **6**

Unified Platform of Information exchange **7**

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Nynas AB: Using OCI for Enhancing Customer Experience

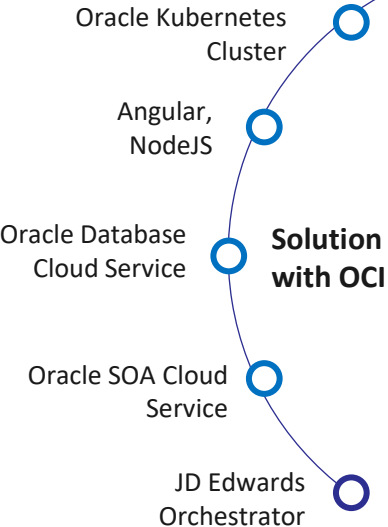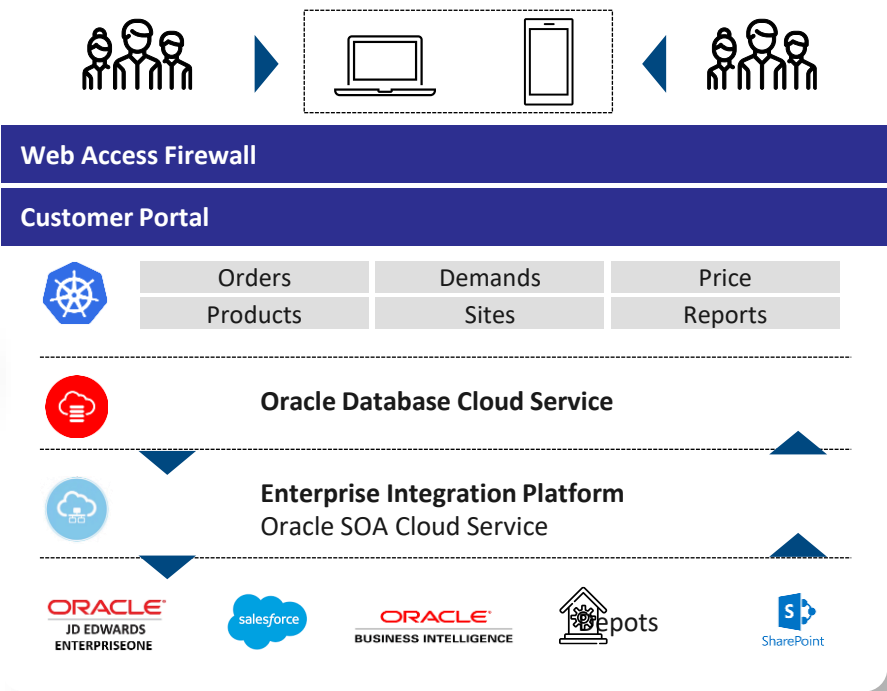| Objective	To arrive at consolidated and **dependable demand forecast,** based on fragmented inputs from emails, tele-calls, messages etc.	To avoid **multiple, error-prone, manual steps** to capture order in **JDE**	To **eliminate Task Duplication for capturing orders in Non-JDE** Depot systems,	To reduce **Order to Cash Cycle time and optimize Supply Chain lead time**	To render greater and seamless visibility to Customer on products, prices and availability
	1	**2**	**3**	**4**	**5**

Build & Deployed Customer Portal

- Oracle Kubernetes Cluster
- Angular, NodeJS
- Oracle Database Cloud Service
- Oracle SOA Cloud Service
- JD Edwards Orchestrator

Solution with OCI

Web Access Firewall

Customer Portal

Orders	Demands	Price
Products	Sites	Reports

Oracle Database Cloud Service

Enterprise Integration Platform
Oracle SOA Cloud Service

ORACLE JD EDWARDS ENTERPRISEONE — salesforce — ORACLE BUSINESS INTELLIGENCE — Depots — SharePoint

Solution Outcome

1. Online Orders
2. Auto Demand Consolidation
3. Single entry for All Systems
4. Customer Self Service
5. Visible Realtime Prices
6. Live Product Catalogue
7. Instant Reporting

Nynas AB: Using OCI for Business Continuity

Objective
To identify and implement a business continuity plan for JD Edwards

Business Continuity during disaster
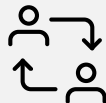
Scalable & Flexible

Minimum Maintenance

Adaptable as Global Standard

Future-Ready Landscape
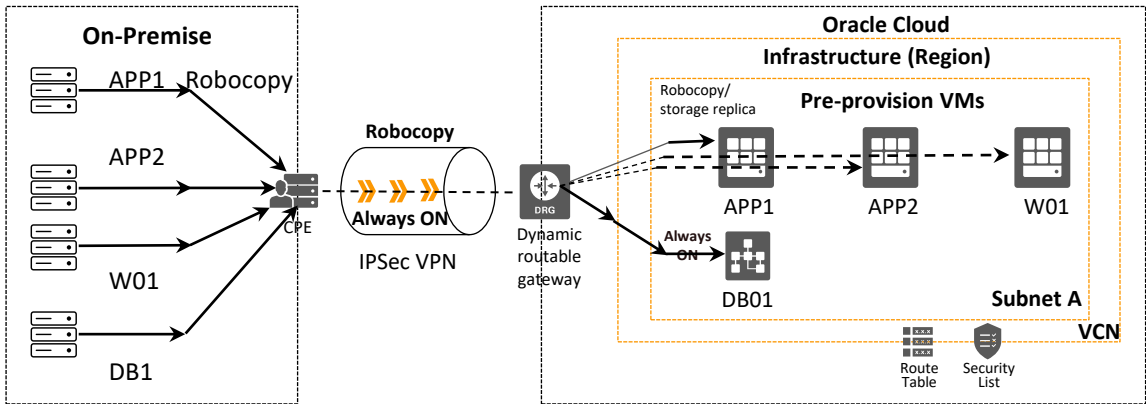
Cost Effective Solution

Recover On Cloud

How OCI meets the Objectives

- DR on Frankfurt region enabling Geo-redundancy for Nynas

- Scalable - Compute, Storage & Network resources for future expansion

- Requires only Monitoring and minimal maintenance of DR setup as compared to Nynas data center

- Wide range of PaaS and SaaS offerings to adopt and augment future requirements

- Cost savings of >24%

How the solution was implemented

On-Premise
APP1   Robocopy
APP2
W01
DB1
CPE

Robocopy
Always ON
IPSec VPN

DRG
Dynamic routable gateway

Oracle Cloud Infrastructure (Region)
Robocopy/ storage replica
Pre-provision VMs
APP1   APP2   W01
Always ON
DB01
Subnet A
Route Table   Security List
VCN

Connected to on-premise with IPSEC VPN

Storage data replicated to OCI with Robocopy

Database sync with Always ON

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Why Nynas AB Chose This Approach

Digital Integrations on OCI	Customer Portal on OCI	Disaster Recovery on OCI
Complex and diversified requirements	Specific functionalities addressing key problems	Single Vendor support for JD Edwards
Security and control on integration platform	Cost-effective solution with high performance	Co located with integration platform
Capitalize on existing investments	Reuse existing APIs for multi-system workload	Spend Flexibility with Universal Credits

Benefits

• Improved **Time-To-Market** by **300%**	• Empowered **Customer Experience**	• **Scalable** platform for expansion
• **Reduced** IT integration cost by **40%**	• Accelerated **Order to Cash** Cycle	• **Future** ready landscape
• Consolidated and Accurate **MIS**	• **Dependable** demand forecasts	• **Cost savings** >24%
• **Transactions across system**	• Effective **production planning**	• Enabled **Business Continuity**
• Scalable solution for **new plug-ins**	• Reduced **Working Capital** Requirement	• Achieved **IT compliance**

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Oracle JD Edwards and the Cloud

Mark Herwege

Solution Engineer Oracle JD Edwards

September 2021

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Safe harbor statement

- The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.

- Statements in this presentation relating to Oracle's future plans, expectations, beliefs, intentions and prospects are "forward-looking statements" and are subject to material risks and uncertainties. A detailed discussion of these factors and other risks that affect our business is contained in Oracle's Securities and Exchange Commission (SEC) filings, including our most recent reports on Form 10-K and Form 10-Q under the heading "Risk Factors." These filings are available on the SEC's website or on Oracle's website at **http://www.oracle.com/investor.** All information in this presentation is current as of September 2019 and Oracle undertakes no duty to update any statement in light of new information or future events.

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Oracle's Investments for JDE Customers

Leverage JDE Strengths Combined with Broader Oracle Cloud Portfolio

ORACLE CLOUD APPLICATIONS

CHOOSE YOUR PRACTICAL PATH TO ORACLE CLOUD APPLICATIONS

ERP Cloud	SCM Cloud	CX Cloud	HCM Cloud

ORACLE JD Edwards EnterpriseOne

UPTAKE JDE ENHANCEMENTS

Digital Transformation

ERP Optimization

Simplify & Automate

ORACLE Cloud Infrastructure
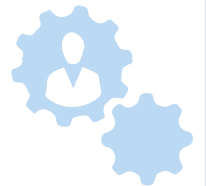
MOVE AND IMPROVE JDE USING ORACLE CLOUD INFRASTRUCTURE

Compute	Networking	Storage	Load Balancing	Identity Cloud Service	Autonomous Database

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JD Edwards on OCI Value Proposition

Hybrid Cloud Optimization – Extend JDE on OCI with PaaS and SaaS

ORACLE®
JD Edwards
EnterpriseOne

The JD Edwards you

KNOW

OWN

CUSTOMIZED

INTEGRATED

OTM

CPQ

OCI

LBaaS

Exadata Cloud Service

Indirect Procurement

Platform   **Infrastructure**   **Data**

LBaaS
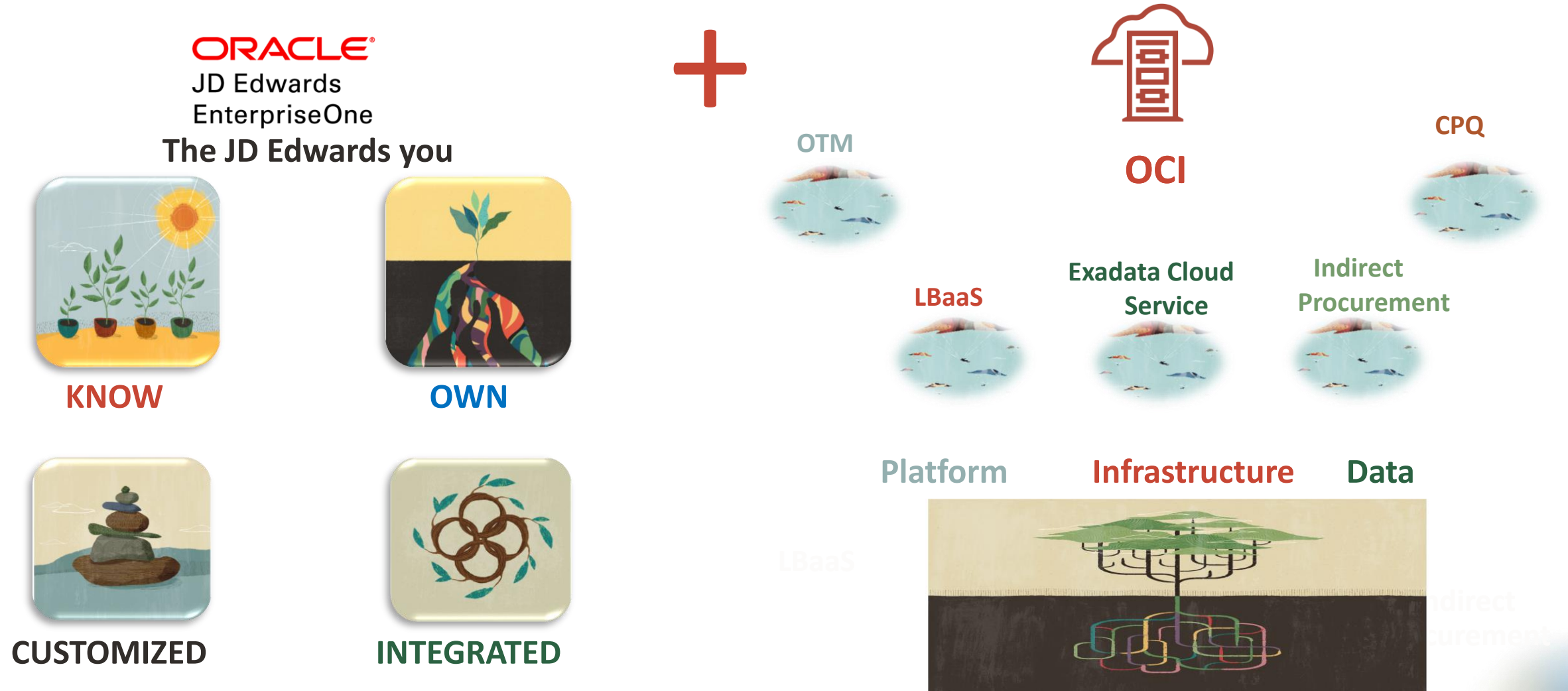
JDE on OCI Reference Architecture – Strategic Purpose

TEMPLATE Solution

Provides guidelines & best practices

Optimized for Oracle Cloud Infrastructure

Out of Box High Availability and Security

CERTIFIED by JDE

Automated provisioning of Reference Architecture

Validated with each release cycle

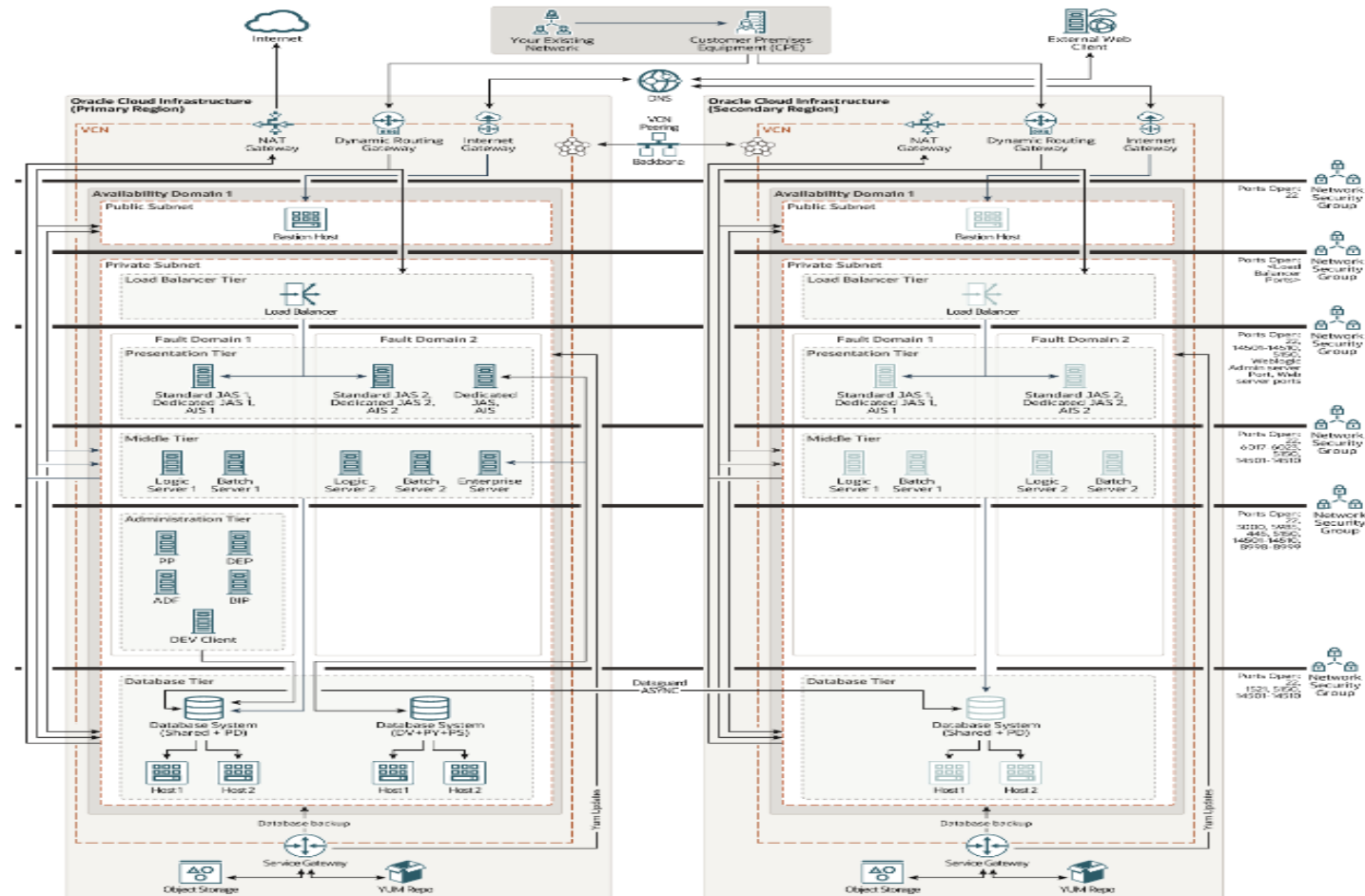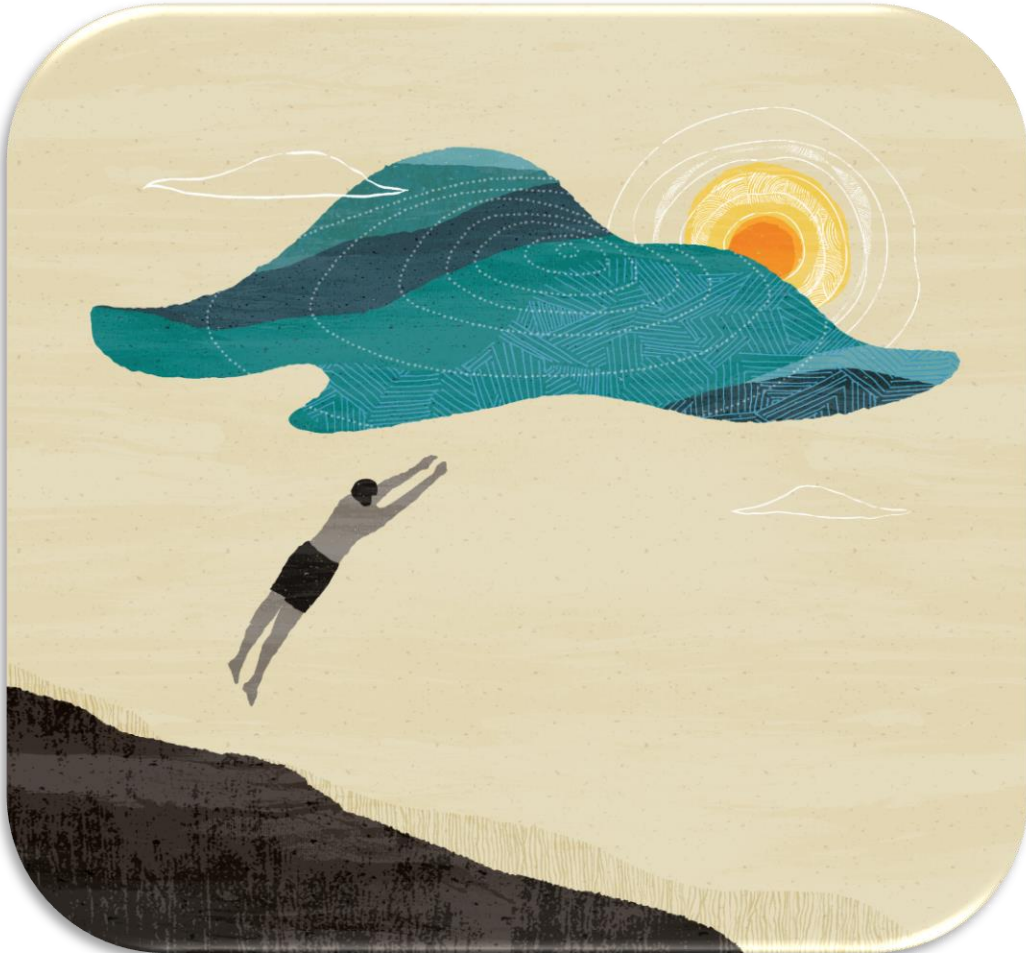Reliable for future enhancements

CONSISTENT Implementation

Adherence to common standards and patterns

Reduces risks (high predictability)

Streamlines support

JD Edwards EnterpriseOne on OCI
## Reference Architecture – Optimized for Disaster Recovery

Moving JD Edwards To OCI

- ✓ **Trial (Sandbox)**

- ✓ **Lift & Shift**

- ✓ **Move & Improve**

- ✓ **Platform Migrations**

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New Instances - One-Click Provisioning

Terraform Infrastructure Automation scripts from OCI Marketplace

JD Edwards One-Click Provisioning

JD Edwards running on Oracle Cloud

Terraform Infrastructure
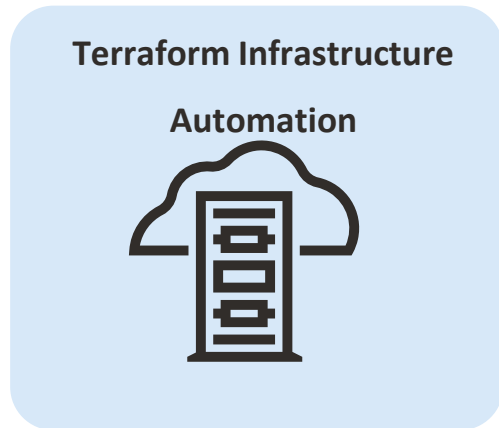
Automation

The Magic of JDE Automated provisioning!
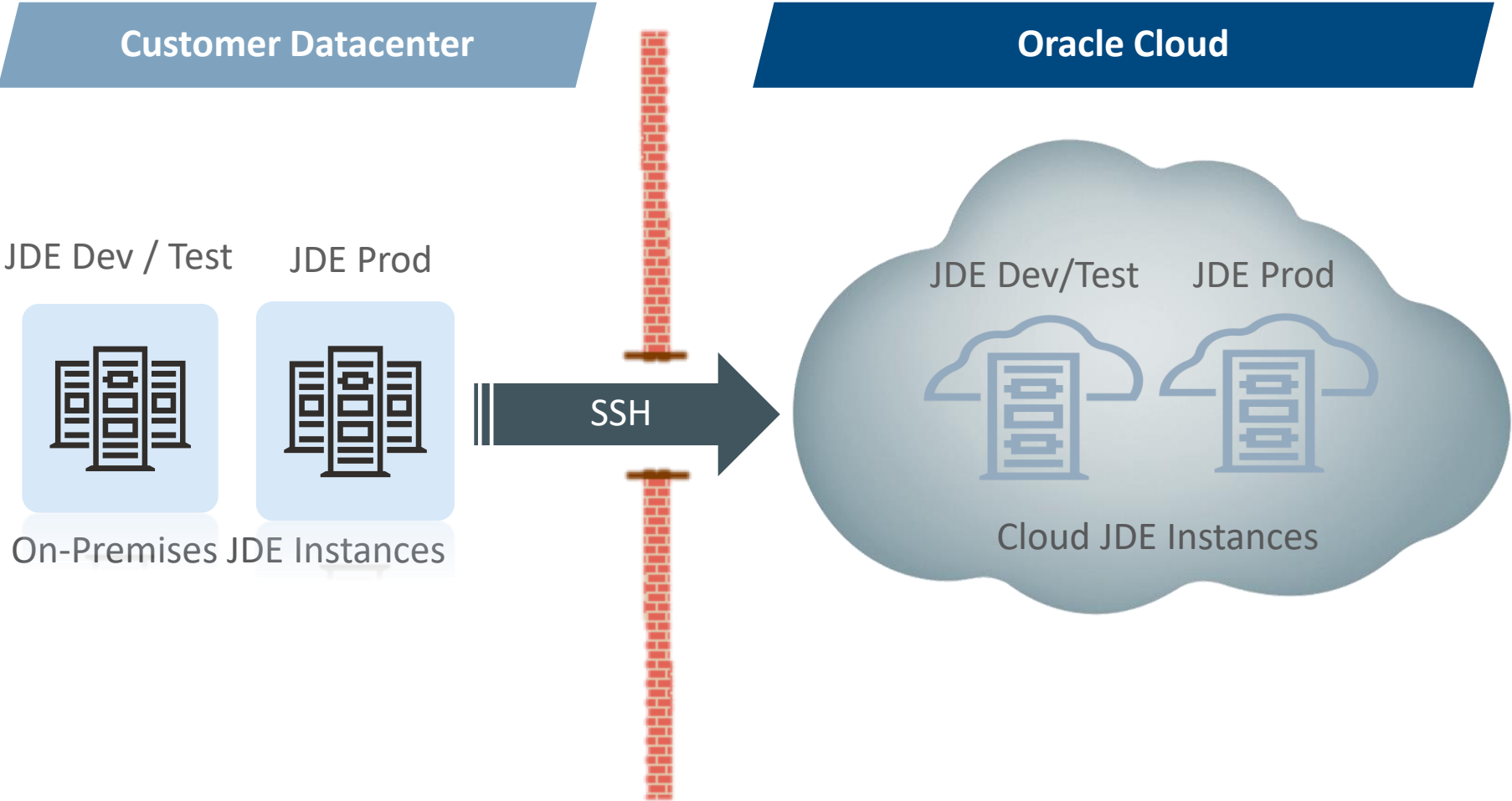
Reference Architecture Automation creates subnets and security lists, provisions storage, compute and database, and installs software

One-click Provisioning tool consumes a base configuration of JD Edwards from Terraform Infrastructure Automation

Lift and Shift - On-Premise JDE Instances to OCI

Customer Datacenter

Oracle Cloud

Available Today

JDE Dev / Test   JDE Prod

JDE Dev/Test   JDE Prod

On-Premises JDE Instances

SSH

Cloud JDE Instances

Like-to-like Migration		
Linux	→	Linux
Windows	→	Windows
Oracle DB	→	Oracle DB
SQL Server DB	→	SQL Server DB
JDE 9.2	→	JDE 9.2

Migrates

- Business Configuration
- Business Data
- Customizations
- Application Patch Level

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Move and Improve your JD Edwards Infrastructure with OCI

JD Edwards

On-Premise

JD Edwards One-Click Provisioning

Simplified Upgrade Process

JD Edwards running on Oracle Cloud

Cloud Migration Automation utilities to extract & Import on-premises configuration and data

Automated Infrastructure provisioning based on Reference Architecture

Move to Cloud and Upgrade to 9.2 as a single process

Simplified Upgrade to **64-bit code current target**

Latest 9.2 release (code current) provisioned with One-Click provisioning

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Enterprise Class Infrastructure Roadmap

Continuous Stream of Innovation

2017
- One Click Provisioning JDE Servers for OCI-C
- Object Tracking
- One Click Provisioning WLS and DB for JDE on OCI-C
- White Paper – HA & DR Scenarios for JDE on OCI-C
- White Paper – JDE on Baremetal Infrastructure OCI
- One Click Provisioning JDE on OCI
- One Click Payload Refresh

2018
- Simplified Upgrade to One Click Target OCI
- Improved Migration Utilities
- Automated Provisioning – Windows and iSeries
- JDE Reference Architecture Definition for OCI
- One Click Automation to Provision Reference Architecture OCI
- One Click Payload Refresh

2019
- One Click Support for Multiple DB Provisioning OCI
- JDE Trial Edition for OCI
- One Click Adoption of DBCS OCI
- JDE Infrastructure to Create Marketplace Images OCI
- Terraform Infrastructure Automation OCI
- Whitepaper – JDE Scalable Elastic Deployment (Autoscale)
- One Click and Trial Edition Payload Refresh

2020
- White Paper – Simplify and Automate JDE
- Server Manager Support for JDE Elasticity OCI
- One Click and Trial Edition Payload Refresh
- Certification for Manual Installation of ADB for OCI
- Server Manager Scalability and Performance
- Simplified Patching

2021
- Oracle native database connection pool for OCI
- Optimized Reference Architecture
- Performance Characterization of Reference Architecture
- One Click Adoption of ADB-D
- Adoption of IDCS

Roadmap subject to change without notice. The above is intended or information purposes and may not be incorporated into a contract.

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Elastic Infrastructure for JD Edwards

Elasticity is your system's ability to balance your ever changing processing requirements against the system resources needed to manage your workloads.

JDE on OCI Elasticity

- Pay for what you use!
- Workload Driven
  - OCI Auto-scaling
- Autonomous DB
- JDE Server Elasticity
  - Docker Containers for Quick Spin up/down

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LearnJDE – The JD Edwards Resource Library

Connect with experts

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Q&A

Thank You

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