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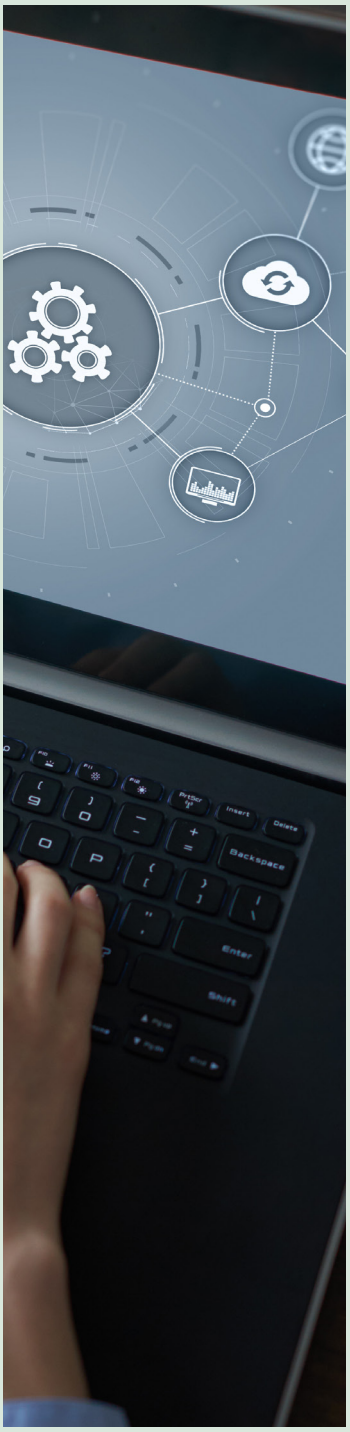

MOVE TO CLOUD WITH ORACLE FOR JDE ENTERPRISEONE CUSTOMERS

Oracle Cloud streamlines cloud migration for JDE EnterpriseOne customers

Abstract

Oracle Cloud Infrastructure (OCI) is a proven offering that helps organizations transition to cloud at minimal risk and cost. Compatible with JD Edwards systems, it ensures a smooth cloud migration journey for Oracle JD Edwards (JDE) EnterpriseOne customers. This paper explains how enterprises can use Infosys solution for Oracle Cloud Infrastructure, part of Infosys Cobalt, with JD Edwards EnterpriseOne for their cloud migration journeys. It lays out cloud options, execution strategies and available JDE versions to help enterprises make the right choice.

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Why choose OCI for JD Edwards EnterpriseOne?

Organizations that have already invested significant time, money and effort into building existing production JD Edwards systems need alternatives for their cloud migration journeys. Clearly, rebuilding everything is not viable when creating modern cloud frameworks.

Oracle Cloud Infrastructure (OCI) is an enterprise-grade public cloud infrastructure offering from Oracle that is capable of running traditional multi-tiered enterprise applications and high-performance workloads. Moreover, it is fully compatible with the latest JD Edwards EnterpriseOne 9.2 application release and all its key components. Oracle has also developed a well-defined and tested methodology for customers to migrate or upgrade their earlier releases of JDE EnterpriseOne.

Designed to meet the needs of today's business, IT and operational teams, OCI promises faster, agile and on-demand business transformation programs using the JD Edwards application suite along with other Oracle Cloud applications. Many customers worldwide have successfully deployed OCI as their core IT platform to provide more value to their stakeholders.

Cloud choices for JD Edwards customers

There are three layers of cloud service offerings that JD Edwards customers can choose from based on their business needs and technology roadmap. These three layers are:

1. Infrastructure as a Service (IaaS) – This consists of a comprehensive set of integrated, subscription-based infrastructure services that enable customers to run any workload in an enterprise-grade cloud. These infrastructure services are comprised of compute services, storage services and network services.
2. Platform as a Service (PaaS) – This consists of a comprehensive portfolio of integrated platform services on which organizations can run and extend their JD Edwards EnterpriseOne system. It includes platforms like database cloud services, Java Cloud Services, mobile cloud services, IoT services, and middleware services. These enable developers, testers and business users to perform activities linked to development, testing and deployment.
3. Software as a Service (SaaS) – This consists of a set of enterprise applications that can be subscribed to by JD Edwards EnterpriseOne customers to augment their business needs. These applications are based on a subscription model of licensing.

At present, the JD Edwards EnterpriseOne application is not delivered as a SaaS offering. Based on the business needs, existing customers can choose both IaaS and PaaS or either of them for their JD Edwards application instance.

Customers that choose Oracle IaaS as the cloud offering for their JDE solution can access compute, storage and network services from OCI. This gives them the ability to scale compute and storage as per the needs of JDE workloads for any time period.

Customers choosing Oracle PaaS gain the ability to integrate a large set of platforms covering mobility, analytics, IoT, and content. PaaS services can be used to extend JDE EnterpriseOne functionalities.

JD Edwards customers can use these cloud services whether they deploy JD Edwards system on OCI or keep it on-premises.

In its simplest form PaaS for JD Edwards customers provides them an option to re-platform their core JD Edwards components like Enterprise Server, Database Server DBMS, JHTML web servers, batch servers to components based on Oracle technology stack which are part of long term support road-map.

OCI allows quick provisioning of PaaS components. Here are some examples of how PaaS offerings can be leveraged by customers:

- JDE EnterpriseOne Internet of Things (IoT) Orchestrator captures and processes device data for JDE EnterpriseOne transactions. Customers can use Oracle's IoT cloud service for device management, event processing, protocol translation, and streaming data analysis
- JDE EnterpriseOne customers can use Oracle Database Cloud Service for their JD Edwards database and the Oracle Java Cloud Service for the web (WebLogic Server) tier.
- Mobile cloud service allows customers to leverage a comprehensive mobile platform to manage, monitor and secure JD Edwards mobile applications
- Integration cloud service can integrate cloud applications with JDE EnterpriseOne

JDE EnterpriseOne solutions on OCI

The three main solutions offered on OCI for JD Edwards EnterpriseOne customers are:

1. Trial edition – This is similar to the standalone version of EnterpriseOne that most customers are familiar with. It is a single Oracle virtual machine template that cannot be updated. It is primarily used to validate functionality and test smaller proofs-of-concept.
2. Multi-tier installation – This is similar to installing the complete JDE EnterpriseOne package on the cloud. It follows the same procedure as when installing JDE EnterpriseOne on premises along with cloud-specific technical procedures. JDE EnterpriseOne instance(s) are created using various images for JD Edwards servers.
3. One-click provisioning – A web application provided by Oracle is used to automatically install JDE EnterpriseOne in Oracle Cloud. Through this method, customers can configure the shape of the JDE EnterpriseOne instance to suit their respective needs. Provisioning is completed within a few hours. In this tier, most JD Edwards installation workbench tasks are automated, thereby reducing dependency on configurable network computing (CNC) experts.

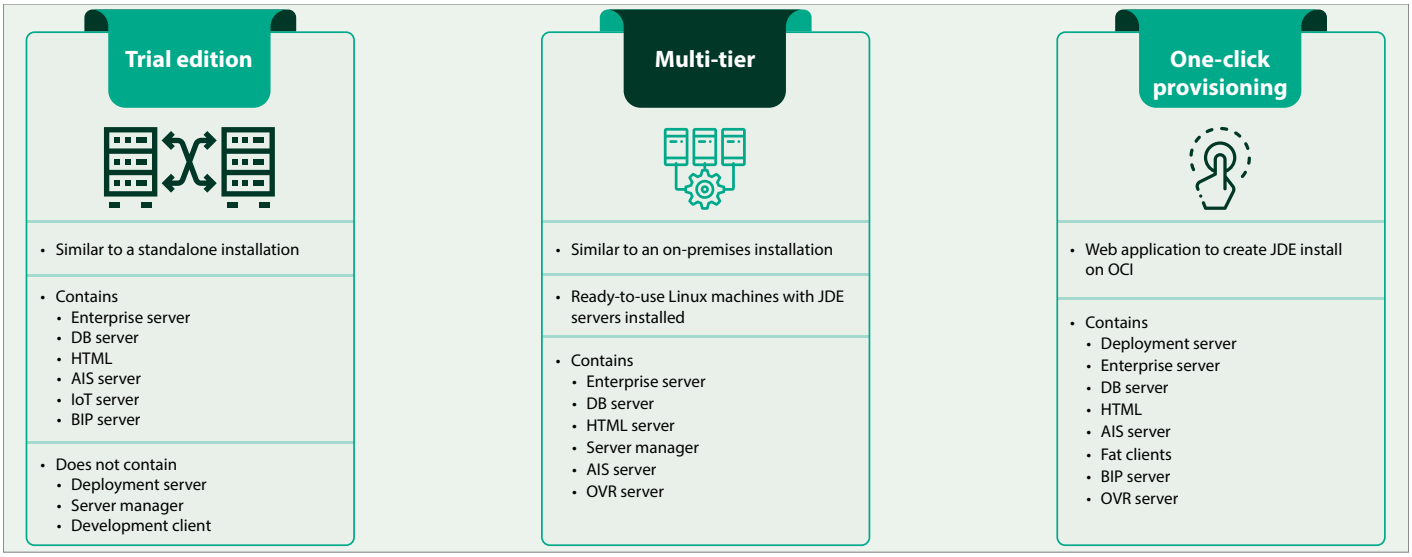


Table 1: Quick comparison of JD Edwards EnterpriseOne cloud solutions

Customer options for cloud migration

Embarking on a cloud migration journey cannot be reduced to simplistic 'yes/no' or 'all/nothing' choices. In most cases, customers end up with a hybrid cloud environment that is tailored to their business needs and future roadmap for IT applications. Here are some potential scenarios for customers to consider when migrating to modern cloud frameworks:

- Deploy development and test environments on the cloud platform while the production instance continues running on-premises
- Deploy EnterpriseOne test, development and production instances on the cloud platform while some of the integrations run on-premises or vice versa
- EnterpriseOne test/development and production instances run on-premises or on the cloud platform. The EnterpriseOne functionality is extended by adopting cloud services such as Oracle Mobile Cloud Service, Internet of Things Cloud Service, Business Intelligence Cloud Service, etc.

Depending on the chosen scenario, customers may use any one of the following strategies to execute their cloud migration program:

1. **Lift and shift** – This involves an infrastructure migration where the on-premises JDE EnterpriseOne application is ported to Oracle Cloud Infrastructure.
2. **Move and improve** – This involves an infrastructure migration as well as a simplified upgrade to the EnterpriseOne 9.2 application release. Here, the existing version of on-premises JDE EnterpriseOne application is ported to OCI and upgraded to 9.2 in a single step.
3. **Extend and connect** – Customers can leverage a range of PaaS offerings to extend or expose the JDE functionality for digital use cases ranging from mobility, IoT, Database as a Service, and more. These PaaS solutions can be incorporated in the JDE on-premises instance or as part of the migration of JDE to cloud.
4. **Software as a service** – In this scenario, customers add new applications that provide additional or new functionalities for their business processes. These applications are provisioned and maintained by Oracle.

Benefits of Oracle Cloud for JDE EnterpriseOne customers

The current marketplace has many different cloud offerings and vendors. Hence, it is important for JD Edwards EnterpriseOne customers to understand that not all cloud solutions are the same.

OCI is the best-fit solution because it ensures that JD Edwards EnterpriseOne is aligned with the Oracle roadmap. It also allows existing customers to reap the benefits of future innovations delivered by Oracle for JD Edwards applications. This includes tools releases, cloud innovation and long-term support.

Here are some key reasons why JD Edwards EnterpriseOne customers should choose OCI for their cloud migration programs:

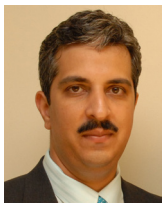
- Oracle Cloud Infrastructure can cost 40% less than an on premise solution or even other cloud provider.
- Running JD Edwards on Oracle Cloud Infrastructure offers customers : High availability with RTO < 4 hours and RPO < 4 hours
- JD Edwards Oracle cloud Infrastructure reference architecture is designed for scalability , high availability along with ensuring data assets are isolated.
- Automated provisioning of JD Edwards EnterpriseOne
- Patch current deployment of JD Edwards EnterpriseOne on Oracle Cloud
- Well defined, tested and supported JD Edwards migration utilities
- Single vendor (Oracle) for support of both JD Edwards applications and Oracle cloud infrastructure

Conclusion

OCI is the solution of choice for JDE customers seeking to migrate to cloud. Compatible with the latest JDE EnterpriseOne 9.2 release, OCI can support development, test and production environments while integrating with on-premises JDE systems. Available as either IaaS or PaaS for JDE EnterpriseOne, OCI can be implemented through various strategies depending on the organization's business needs and future technology requirements. Using OCI to streamline JDE upgrades or migration helps companies benefit from automated provisioning, single vendor support and access to Oracle's ongoing innovations.

About the Authors

Anil Koul is a Principal for Enterprise Applications at Infosys. He has over two decades of experience in business consulting and managing large-scale enterprise application portfolios for various clients in diverse industries.



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