1. Dedicated Region Cloud @Customer

Dedicated Region Cloud @Customer is Oracle Cloud Infrastructure deployed in the customer's own datacenter. With Dedicated Region Cloud @Customer, enterprises can easily consolidate mission-critical database systems, with applications that were previously deployed on expensive hardware on the highly available and secure Oracle Cloud Infrastructure - creating operational efficiencies and modernization opportunities.

1.1 Oracle Cloud Infrastructure Overview

Since its initial launch, Oracle Cloud has expanded to 37 cloud regions with more than 80 services. Oracle Cloud Infrastructure combines the elasticity and utility of public cloud with the granular control, security, and predictability of on-premises infrastructure to deliver high-performance and cost-effective infrastructure services. Oracle Cloud Infrastructure was the first major cloud provider to implement “off-box” or isolated network virtualization, which takes network and IO virtualization out of the server stack and puts it in the network. As a result, customers can provision self-service, dedicated hosts with no hypervisor overhead, noisy neighbors, or shared resources with a full software-defined layer 3 network topology. In addition, off-box network virtualization enables running bare-metal hosts side-by-side with any class of systems — from Virtual Machines (VMs) to containers to optimized database systems like Oracle Exadata — all using the same set of APIs. With Oracle Cloud, customers can leverage unique Exadata capabilities (millions of IOPS, IO prioritization, columnar compression etc.) together with the cloud-native security and governance capabilities of a layer 3 virtual cloud network.

1.2 Oracle Cloud Infrastructure Benefits

Superior Performance

Oracle Cloud Infrastructure leverages the latest CPUs, GPUs, off-box networking, and NVMe SSD based storage services. For example, bare-metal instances provide industry-leading 51.2 TB of NVMe solid-state storage capable of millions of read and write transactions per second. Unlike most cloud providers, Oracle’s cloud networking services are not over-subscribed, so each tenant gets predictable high-performance and low latency. Based on third party testing, Oracle’s compute and storage offer 2-5 times the I/O performance of comparable on-premises or AWS products, with consistent low latency, low jitter and higher bandwidth.

Superior Economics

Oracle’s block storage and database storage can be exponentially less expensive than other cloud providers when performance is required. Oracle do not charge for outbound bandwidth for up to 10TB per month and beyond that charge a fraction of other cloud providers. Oracle’s lower product costs translate into 20-60% lower TCO across a range of workloads versus comparable on-premises or other cloud providers infrastructure. Significantly, all of Oracle Cloud Infrastructure services are billed on an hourly basis so that the customer can scale up or down and only pay for the resources they consume.

Security First

Oracle Cloud Infrastructure starts with a zero-trust architecture. This means that not only are tenants isolated from one another, but tenants are also isolated from Oracle and vice versa (the isolated network virtualization mentioned earlier plays a role in this clean separation). Above Oracle Cloud’s core infrastructure are layer upon layer of defenses including encryption everywhere, least-privilege identity and access management, and granular resource and network control all the way out to the edge. Oracle Cloud also has strict code security development and deployment processes, a full compliance team that is constantly auditing new regions and services, and a round-the-clock Security Operations Center to guard against threats. The combination of architecture, technology, and process provides a more secure environment than most on-premises facilities, as well as other public clouds.
Simple, yet powerful APIs and Developer Tools

The Oracle Cloud Infrastructure APIs are REST APIs that use HTTPS requests and responses. This intuitive API along with a command-line interface and common SDKs in Java, Python, Ruby, and Go let the customer manage large-scale workloads and automate everything. In addition, Oracle Cloud Infrastructure has native support for Terraform orchestration and cloud-init capabilities. Oracle Cloud Infrastructure lets customers provision and manage single tenant, dedicated physical hosts or multi-tenant VMs using the same set of APIs. Oracle Cloud Infrastructure empowers customers to develop and test their application with VMs but deploy with dedicated physical hosts or vice-versa; customers do not need to change their app as the single and multi-tenant models share the same cloud-optimized hardware, firmware, software stack, and networking infrastructure. This unique capability is not available with any other public clouds today.

Breadth and Depth of Cloud Services

To deliver on the promise of a true enterprise cloud for Enterprise customers, Oracle have built a complete cloud portfolio with core services, data services and next layer services all designed from the ground up for the Enterprise.

Compliance and Local Regulations

From a Global Audit Programs Perspective, Oracle's Cloud Infrastructure in general and Dedicated Region Cloud at Customer is backed up by a Strong Certification Readiness which includes major certifications like PCI-DSS, HIPAA, GDPR and more.

AI/ ML and High-Performance Computing Ready

OCI leverages an RDMA Cluster Networking Architecture that has been certified and benchmarked leveraging TISAX for high performance workloads (HPC, Database, Big Data, AI) including the hardest product development workloads like CFD, Crash Simulations, Reservoir Modelling, DNA Sequencing Related Workloads like PLM Systems, AI/ML workloads benefit also from low latency network.
1.3 Dedicated Region Cloud Model

Enterprises have found it costly and difficult to move to first-generation cloud infrastructure, because of the inherent mismatch between traditional application architectures and cloud architecture. For workloads that can’t move to the public cloud, these challenges are magnified. Other cloud providers have been unable to deliver to customer expectations. Enterprises have access to only a small subset of cloud services on-premises, and that too with a limited set of features and capabilities compared to what’s available in the public cloud. Oracle Dedicated Region Cloud brings the full capabilities of the public cloud on-premises, so that enterprises can reduce infrastructure and operational costs, upgrade legacy applications on modern cloud services, and meet the most demanding regulatory, data residency, and latency requirements -- all with Oracle Cloud Infrastructure, which offers industry-leading price-performance and highest-levels of security. Customers get the choice and flexibility to run all the Oracle Cloud Infrastructure second-generation cloud services in their data centers. With Dedicated Region Cloud, enterprises can easily consolidate mission-critical database systems, with applications that were previously deployed on expensive hardware on the highly available and secure Oracle Cloud Infrastructure - creating operational efficiencies and modernization opportunities. Customers can choose from all public cloud services available in the Oracle Cloud including VMware Cloud, Autonomous Database, Container Engine for Kubernetes, Bare Metal Servers, Exadata Cloud Service, and only pay for services they consume using the same predictable low pricing offered in Oracle’s public regions. Dedicated Region Cloud is designed to keep data and customer operations completely isolated from the internet – where the control plane and data plane operations remain on-premises – to help customers meet their most demanding compliance and latency requirements. With a fully managed experience and access to new capabilities the moment they become available in the public cloud, Dedicated Region Cloud offers cloud-scale security, resiliency and scale and support for mission-critical workloads with the tools to incrementally modernize legacy workloads.

Benefits of Oracle Dedicated Region Cloud@Customer:

- Bring all 80+ of Oracle’s public cloud services and Autonomous Database on-premises to reduce the risk and cost of innovation
- Pay only for the services consumed
- Build a truly consistent development experience for all IaaS and PaaS by using the exact same tools, APIs, and SLAs available in Oracle’s public cloud
- Retain full control of all data to meet the most demanding data privacy and latency requirements
- Deploy seamlessly between on-premises and public cloud without any compromises on functionality or development experience
- Consolidate workloads on a single cloud platform with Oracle-managed operations, so that customers can focus on business priorities
- Reduce the costs of running on-premises workloads with Oracle Cloud Infrastructure’s industry-leading price-performance and highest levels of security
- Access single-vendor cloud accountability and management for all cloud platform, database, and infrastructure

[Diagram of Dedicated Region Cloud Model]

- Hosted within your data center
- Only pay for consumption of cloud services
- Fully dedicated, fully featured cloud
- Oracle managed maintenance and operations
- Software defined Infrastructure
- SLA guarantees on Availability & Manageability match the public cloud

Customer provides Space

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High Level Physical Architecture
Oracle DRCC will follow the same architecture of OCI Public Cloud Infrastructure, same security features, same operations and the same SLAs.

1.4 Payment model and minimum commitment and terms Price per month
Oracle Cloud provides a flexible buying and usage model for Oracle Cloud Services, called Universal Credits. When customers order a Cloud Universal Credits, they have unlimited access to all eligible IaaS and PaaS services.

The basic framework for dedicated Region includes signing a UCM commitment per Dedicated Region and agreeing to a commitment over 3 years. Customer would then be using Oracle Cloud services hosted inside their data center with flexibility to use any service needed with the same rate cards as Oracle Public Cloud Commercial regions.

All the PaaS and IaaS prices are available publicly at: https://www.oracle.com/cloud/price-list.html

2. Conclusion
In summary, Oracle Dedicated Region Cloud offers cloud-scale security, resiliency, superior performance, and scale to support mission-critical workloads. It allows customers to build modern applications in their data center at the same predictable low pricing offered in Oracle’s public cloud regions. Meet the most demanding data residency or latency requirements while accessing the operational efficiencies, innovation opportunities, and economics of the public cloud. No other cloud provider delivers a fully featured public cloud with all of its cloud services on-premises. Dedicated Region Cloud complements Oracle’s expanding public cloud region, so that customers can choose the right deployment model for their needs and seamlessly move between on-premises and public cloud workloads.

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