Oracle Dedicated Region:
A complete cloud solution in your data center
Topics covered

01 The challenge

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Identical to OCI
• Full range of IaaS, PaaS, and SaaS services
• Same SLAs as OCI
• Same security-first architecture as OCI
• 100% installed, operated, and managed by OCI

BASE FOOTPRINT
• Starts at 18 racks
• OCI Service Enclave
• Customer Enclave
• Network Block
• Includes Intel, AMD, Exadata, and Storage options (Block, File, and Object)

SHARED RESPONSIBILITY
• Customer provides floorspace, power, and cooling
• Oracle provides infrastructure, monitoring, security controls
• Physical security is a shared responsibility

Oracle’s Solution
Oracle Dedicated Region provides all Oracle Cloud Infrastructure (OCI) public cloud services (IaaS/PaaS/SaaS) in a physical location of the customer’s choosing. Customers can start small and build fast, while retaining full control of their data and services to meet the highest security, regulatory, and data residency requirements. With Oracle Dedicated Region, enterprises and governments avoid the challenges of building a cloud by using Oracle to install, manage, and support a cloud region.

1. Deploy an Oracle-managed private cloud instead of building one from scratch. Oracle provides cloud infrastructure, monitoring, and security controls.
2. Bring all 100+ of Oracle’s public cloud services on-premises to reduce risk and the cost of innovation.
4. Start small, activate fast, and scale on-demand. The base footprint includes 18 racks and is expandable to 450+ racks.
5. Grow flexibly for advanced capabilities like high performance computing (HPC), GPU workloads, big data applications, and more.
NRI modernizes its data center with Oracle’s Dedicated Region Cloud@Customer

As the largest consulting firm and IT solutions provider in Japan, NRI needed to invest in a digital transformation. NRI moved its mission-critical SaaS applications, which are used by about 70% of the capital markets firms in Japan, from on-premises to an Oracle Dedicated Region Cloud@Customer (DRCC) in its own data center.

Dedicated Region enables NRI to incrementally modernize its technology stack while reducing the risk and expense of adopting new technologies. With DRCC, NRI achieved the following:

- Increased agility and seamless expansion while maintaining high availability at the same level as its previous on-premises platforms
- Maintained the high level of financial control based on Japanese security standards such as SOC2 and FISC
- Leveraged cloud native tools including Oracle Blockchain Platform and Oracle Container Engine for Kubernetes to further accelerate digital transformation
- Migrated other workloads to OCI and anticipates a second Dedicated Region/OCI project towards June 2022
- Increased both cost and operational efficiency compared to its on-premises platforms

“With Oracle Dedicated Region Cloud@Customer, we can significantly reduce our on-premises costs and invest more in our digital transformation.”

Tomoshiro Takemoto
Senior Corporate Managing Director, NRI
Sultanate of Oman selects Oracle Dedicated Region Cloud@Customer to strengthen its digital economy

The Oman Information and Communications Technology Group (OICT) selected Oracle Dedicated Region Cloud@Customer to strengthen its digital transformation.

- Explored Oracle Cloud’s emerging technologies while following Oman’s data residency regulations
- Provided 120+ Omani government entities with a fully-managed cloud region with little to no downtime
- Ensured the highest level of data privacy for all government agencies while managing its data locally
- Awarded significant cost benefits to various government entities
- Can now efficiently bring new applications and services online

“Oracle’s innovative approach to cloud is helping us achieve and exceed the goals on this transformative journey.”

Said Al Mandhari
CEO, Oman ICT Group
**Dedicated Region Benefits**

**A Complete Cloud at the Customer Datacenter**

**Core infrastructure capabilities** include compute for not only virtual machines, but also bare metal, graphical processing (GPU), containers, Kubernetes, storage, networking, load balancing, and much more.

**Developer Services** include those for Low Code, a widely adopted APEX low-code development platform as well as tools for Application Development and APIs. Oracle was one of the first vendors to broadly adopt Terraform for Infrastructure-as-Code.

**Data Management capabilities** include a wide range of services for Data and AI, as well as Data Science, Oracle Database and MySQL, Applications, and Analytics.

**Governance and Administration capabilities** include Identity Management, various services for cloud security, and observability for the entire stack of infrastructure and applications.
Dedicated Region offers the flexibility of cloud, where customers can start small and scale on-demand, with capacity managed by Oracle engineers. Organizations can operate this dedicated cloud in a location of their choice at the highest security and regulatory needs in a single or multi-tenant environment. Other dedicated solutions do not provide the same level of completeness and assurance. Dedicated Region runs a full set of public cloud services on-premises. The solution includes end-to-end SLAs for availability, performance, and manageability that are financially backed by Oracle.

Cloud—delivered as a service

With Dedicated Region, organizations can buy a subscription to a proven cloud platform, and not build their own. It’s completely delivered by Oracle with simple, usage-based billing. The solution uses the same platform that Oracle leverages for its cloud regions worldwide. Oracle engineers install, operate, support, and upgrade each Dedicated Region in the same manner as they maintain cloud regions.

Dedicated Region is billed by consumption using the same rates as OCI. Expenses incurred are OpEx, not CapEx. Other solutions either are not delivered fully as a service, or do not share the same simple usage-based costs as the public cloud.

1 Refer to the product page for detailed comparisons with alternatives.
Dedicated Region Features

Full Range of Compute Options

Oracle Cloud Functions
A serverless platform that lets developers create, run, and scale applications without managing any infrastructure

Oracle Container Engine for Kubernetes
Oracle-managed container orchestration service for modern cloud native applications

Customizable core and memory options
On-premises virtual machine-based shapes offer flexible, standard, dense-IO, GPU accelerated, optimized, and dedicated VM hosts

On-premises cloud bare metal servers
High-performance cores, memory, network resources, and local storage for graphics, big data, and cluster networking

High Performance Storage

Secure by default
Always-on encryption, OCI Identity and Access Management

Elastic
Use what you need; pay only for what you use

Block storage
Persistent and durable volumes that can scale to 1 PB per compute instance

File storage as managed Network File System (NFS)
Scales automatically up to 8 exabytes, with multiway replication for data availability and durability

Object storage
Stores any type of data in its native format and consolidates from multiple data sources
Defense-in-Depth with Layered Security Controls

Oracle Dedicated Region Cloud@Customer enables customers to meet their regulatory, data privacy, latency, and internal security requirements. Dedicated Region brings hardened physical and perimeter network security while enhancing the security of the platform, data, and applications with Oracle security controls and services. Dedicated Region follows the same defense-in-depth architecture and provides security controls at all layers of the stack, including:

- Data center physical security
- Infrastructure security
- Application protection
- Data at rest and in motion encryption
- Security monitoring, and reporting

Dedicated Region Cloud@Customer regions operate in the same way as all other OCI regions by using the same tools, policies, and procedures. Because these dedicated regions are deployed in customer-controlled data centers, they aren’t formally included in the scope of any third-party audits. However, they can be more easily certified because of existing OCI certifications.

### Compliance at no additional cost

- SOC 1, SOC 2, ISO 27001, HIPAA, and PCI DSS

### Observability

- Security Automation, Audit logs, Monitoring, and Reporting, SIEM monitoring 24x7x365

### Data security at rest and in motion

- AES 256-bit & AES 128 TDE encryption; TLS 1.2, FIPS 140-2 Level 3 certified hardware for key storage

### Application security

- Web Application Firewall (WAF), IAM policies, vault service, Cloud Guard protects cloud resources

### Infrastructure security

- Isolate management network from customer network, tenants, and compartments

### Datacenter physical security

- Restricted access with multiple levels of authorization, clean hardware and firmware

“[OCI] is a major step toward enabling more choice for government to access world-leading cloud services, in a data centre managed by a 100% Australian sovereign company, focused on connectivity, security, and simplified deployment.”

Rob Kelly
Managing Director, Australian Data Centres

**Australian Data Centres provides new option for secure government workloads with Dedicated Region Cloud@Customer**

ADC selected Oracle Dedicated Region Cloud@Customer to provide sovereign hosted cloud services to the Australian Federal Government. ADC can now build Oracle’s public cloud regions in its own data centers to maintain control of its infrastructure, while meeting the most demanding data residency hosting requirements.

- Integrated public and private cloud services on OCI that are highly secure and have high functionality
- Accessed Oracle’s second-gen cloud services including Bare Metal Compute, VMs and GPUs, Autonomous Database, and Exadata Cloud Service
- Offered clients a wide range of hybrid cloud capabilities and multicloud management services while maintaining high levels of security
The sparkly pink unicorn comes from Oracle - Gartner

While many of the leading cloud providers have developed some form of solution for hybrid cloud, they do not offer all cloud services in this format. Oracle, with its Dedicated Region, provides all its public cloud services at a customer’s premises and provides them on a consumption-based commitment.

Roy Ilsley
Chief Analyst, Omdia

Carl Olofson
Research Vice President, IDC

Holger Mueller
Vice President, Constellation Research

Gartner
OCI Resources

Overview Content
- Dedicated Region Overview
- Dedicated Region FAQ
- Oracle Cloud Infrastructure Overview
- Customer Success
- Oracle Cloud Economics

Infographics, Videos, and Briefs
- Winning with Oracle Dedicated Region Cloud@Customer
- Oracle DRCC vs. Microsoft Azure Stack Hub
- Oracle DRCC vs. AWS Outposts
- Transform Data Centers with Oracle Dedicated Region (on-demand videos)
- Dedicated Region Cloud@Customer Product Brief

Technical resources
- Dedicated Region Cloud@Customer Technical Documentation
- Oracle Architecture Center

Analyst Validations
- IDC: Oracle Dedicated Region Cloud@Customer experience the cloud anywhere
- IDC on the Value of Complete Public Cloud Services in Your Data Center (on-demand video)

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