

ORACLE

OCI Dedicated Region:

A complete cloud solution in the location of your choice





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Adopting a Dedicated Cloud Strategy

The Challenge

According to an IDC¹ study, the dedicated cloud infrastructure-as-a-service (DCIaaS) market will reach \$29 billion in annual recurring revenue by 2027, with an overall compound average growth rate of 75.2%.

DCIaaS solutions are vendor managed and maintained, so customers can focus on innovation rather than infrastructure management. By design, DCIaaS offerings give customers public cloud computing capabilities in a location they control, whether in their own datacenter or at a colocation provider. The emphasis on privacy and control over a cloud environment strongly supports the move toward digital sovereignty in countries around the world. Many customers want the benefits of a public cloud, but prefer to have workloads running on-premises for data residency, security, regulatory compliance, and low latency.

However, in order to implement a dedicated cloud, many customers are forced to invest in expensive technologies procured through multiple vendors. This results in the lack of single point of support or accountability. Additionally, customers are not able to start with a small on-premises cloud deployment and scale quickly based on demand. While the appeal of building a dedicated cloud may seem tractable, it often becomes operationally inefficient.

Other cloud providers have been unable to deliver to customer expectations because they provide only a small subset of cloud services on-premises, with a limited set of features and capabilities.

Legacy hardware vendors are positioning “cloud-like functionality” to their traditional on-premises IT infrastructure. However, their products do not deliver public cloud services because they neither own nor operate a public cloud. They also depend on third-party software vendors to build out their offerings.

Identical to Oracle Public Cloud

- Full range of IaaS, PaaS, and SaaS services
- Same SLAs as Oracle public cloud
- Same security-first architecture as Oracle public cloud

Shared responsibility

- Customer provides and pays: floorspace | power | cooling | networking connectivity
- Oracle provides: Cloud infrastructure | operations & support | security controls
- Physical security is a shared responsibility
- Multitenancy environment:
 - Customer responsibility: Tenancy life cycle management | Tier-1 support
 - Oracle: Tier-2 support

Base footprint

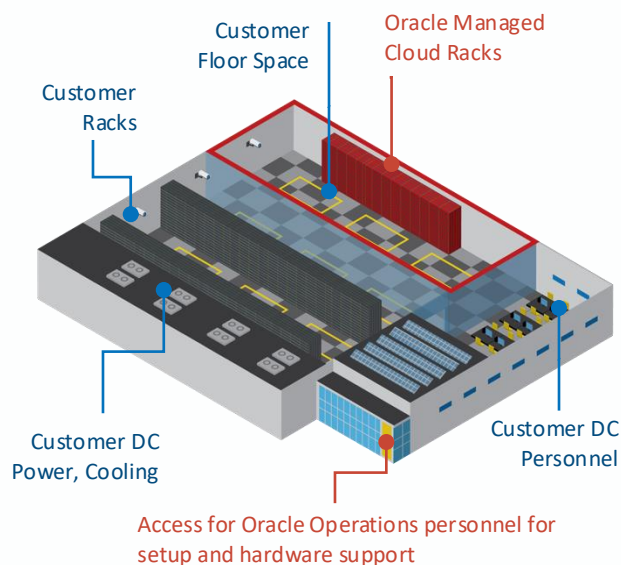
- Start as small as 3 racks and expand to 450+ racks to match workload growth
- Runs OCI services - Compute | Storage | Database | HPC | GPU

Oracle's Solution

Oracle Cloud Infrastructure (OCI) Dedicated Region provides all OCI public cloud services (IaaS/PaaS/SaaS) in a physical location of the customer's choosing. Customers can start small and scale on demand, while retaining full control of their data and services to meet the highest security, regulatory, and data residency requirements. With OCI Dedicated Region, enterprises and governments avoid the challenges of building a cloud while managing various internal tenancies on a single deployment installed, updated, and supported by Oracle.

- ✓ Deploy a complete OCI cloud region in your data center instead of building one from scratch. Oracle provides cloud infrastructure, monitoring, and security controls.
- ✓ Bring 150+ OCI public cloud services on-premises and run everything from mission critical to AI workloads.
- ✓ Establish and oversee hundreds of internal tenancies, ensuring secure and isolated management of cloud resources for each tenant within a regulated environment.
- ✓ Deploy IaaS, PaaS, and SaaS services: Compute, Storage, Networking, Autonomous Database, Exadata, and much more.
- ✓ Start small, activate fast, and scale on-demand. With full visibility into consumption resources, expand to over 450 racks with ease.
- ✓ Grow flexibly for advanced capabilities like high performance computing (HPC), GPU workloads, big data applications, and more.

Customer's Data Center



1. IDC Report: DCIaaS Market to Grow More Than 75%

NRI modernizes its data center with OCI Dedicated Region



As one of the largest consulting firm and IT solutions provider in Japan, NRI needed to invest in digital transformation. NRI moved its mission-critical SaaS applications, which are used by about 70% of the capital markets firms in Japan, from traditional IT on-premises infrastructure to OCI Dedicated Region, inside its data center.

NRI Deployed Two OCI Dedicated Regions to Run Key Financial Services on a Highly Available, Secure On-Premises Cloud Platform

- NRI moved on-premises SaaS apps to OCI Dedicated Region starting in 2020. After initial success, NRI expanded deployment to a second OCI Dedicated Region in 2022
- NRI runs two of their most critical applications (BESTWAY and T-STAR) on OCI Dedicated Region
- Deployment of OCI Dedicated Region reduced cost and increased operational efficiency, compared to its previous traditional IT on-premises infrastructure
- Reduction in on-premises operations helps NRI invest in digital transformation technologies such as Oracle Application Express and Oracle Container Engine for Kubernetes to further accelerate digital transformation
- NRI achieved all benefits while maintaining the highest level of financial control based on Japanese financial security standards

“

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

Tomoshiro Takemoto

Senior Corporate Managing Director, NRI



OCI Dedicated Region Use Cases

Data residency

Customers of OCI Dedicated Region can meet their governance, regulatory compliance, and data residency requirements while experiencing the benefits of the public cloud.

- With OCI Dedicated Region being on-premises, customers' workloads and data will never leave their data center, and are secured with OCI's security-first architecture.
- In a self-contained dedicated region, all data, including API operations and metadata, remain local to the region.
- Customers can implement additional physical security controls to protect sensitive workloads and data.

Low-latency applications

With OCI Dedicated Region, customers can run applications that require low latency to generate near real-time responses to end user applications or communicate with other on-premises systems.

- Easily apply analytics and machine learning services to telecommunications systems that need to remain on-premises due to data and latency processing requirements.
- Run 24/7 trading and exchange platforms at desired latencies.
- Deliver banking, payment processing, and risk management services to clients from in-country locations to meet data locality requirements.

Modernization of infrastructure and apps

With OCI Dedicated Region, customers can easily modernize their legacy applications with any combination of Oracle's 150+ public cloud services, including Autonomous Database.

- Capitalize on existing investments by seamlessly migrating legacy workloads as-is to an on-premises cloud.
- Increase agility and innovation by accessing new OCI cloud services and features following when Oracle makes them available in public cloud regions.
- Improve TCO by consolidating and modernizing workloads in an on-premises cloud with the same comprehensive SLAs as in OCI's public cloud regions.



"Together with Oracle, we're modernizing thousands of on-premises database workloads and associated applications using a secure, fully featured on-premises cloud region—and lowering our costs."

Scott Petty

Chief Digital & Information Officer, Vodafone

Vodafone uses Oracle Cloud to help fast-track its telecom reinvention

To move into diversified communications, the telecom relies on OCI Dedicated Region, a cloud offering built inside Vodafone's own data centers.



Improved latency and higher availability of critical systems through reduced planned and unplanned downtime



Met data residency requirements when services were scaled throughout multiple geographies



Accelerated time to market for new products and services















Centrally controlled platforms and simpler life cycle management provided lower total cost of IT & Operations



On-premises applications allowed Vodafone to move off its legacy IT infrastructure at its own pace

OCI Dedicated Region Benefits

A Complete Cloud in Your Datacenter

Oracle Applications Industry ERP EPM SCM HCM ACX		Custom Applications Polyglot Traditional Cloud Native		ISV Applications Hundreds to choose from	
 Developer Services	 Containers and Functions	 Integration	 Analytics and BI	 Machine Learning + AI	 Data Lake
 Compute	 Storage	 Networking	 Oracle Databases	 Open Source Databases	 Operating Systems, Native VMware
Security Observability Compliance Messaging Governance					

Core infrastructure capabilities include compute for not only virtual machines, but also bare metals, GPUs, containers, Kubernetes, storage, networking, load balancing, and much more.



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.



Developer Services include API Management, APEX (low code app development), Functions (serverless), Queue (serverless messaging), Events, Notifications, and Workflows.



Governance and Administration capabilities include Identity Management, Security, and Oracle Observability and Management for the entire stack of infrastructure and applications.



Start small, activate fast, and scale on demand

A complete cloud region in your data center

OCI Dedicated Region provides all 150+ Oracle Cloud Infrastructure public cloud services (IaaS, PaaS, and SaaS) in a physical location of the customer's choosing. Since organizations buy a subscription to consume cloud services instead of building their own cloud, expenses incurred are OpEx, not CapEx.

Customers can start small and scale fast while retaining full control of their data to meet the highest security, regulatory, and data residency requirements.

Benefit from an end-to-end on-premises public cloud solution (hardware, software, services, etc.), installed, managed, and supported by Oracle Cloud experts.



**Scalable capacity
managed by Oracle**



**Choice of location
and control of
tenants**



**Meets data residency
requirements**



**Single vendor
accountability**



**24x7x365 support
by Oracle**



**Billed based on OpEx,
not CapEx**

Serve the entire enterprise in a single deployment

Per customer requirements, OCI Dedicated Region with multitenancy enables large enterprises to create and centrally manage 100s of tenancies for various departments within internal agencies. Enterprise customers have full control over their tenancies, set and manage resource and spending limits, monitor resource consumption, and deliver tier-1 support.

OCI Dedicated Region offers a comprehensive solution, enabling customers to access over 150 cutting-edge cloud services through a single deployment, reducing operational costs with optimized resource pooling, and driving innovation across various departments.



**Onboard and manage
multiple internal
tenancies**



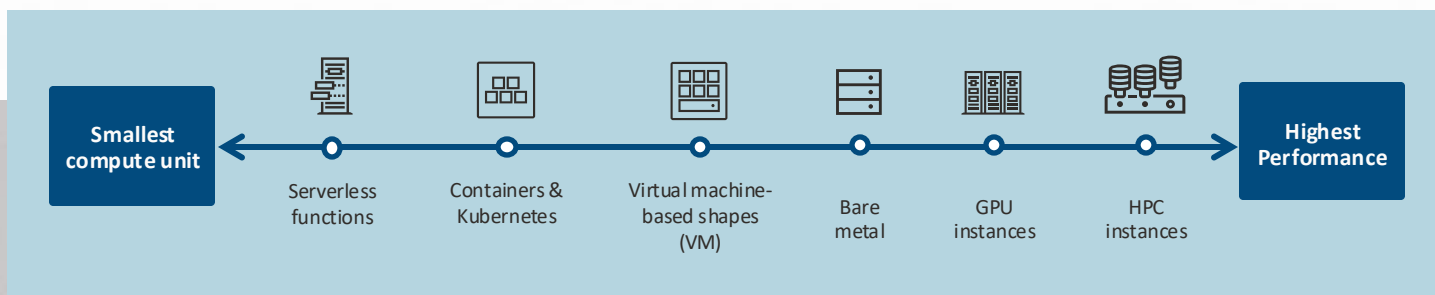
**Centrally manage on
a single operator
console**



**Provide tier-1
support**

OCI 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

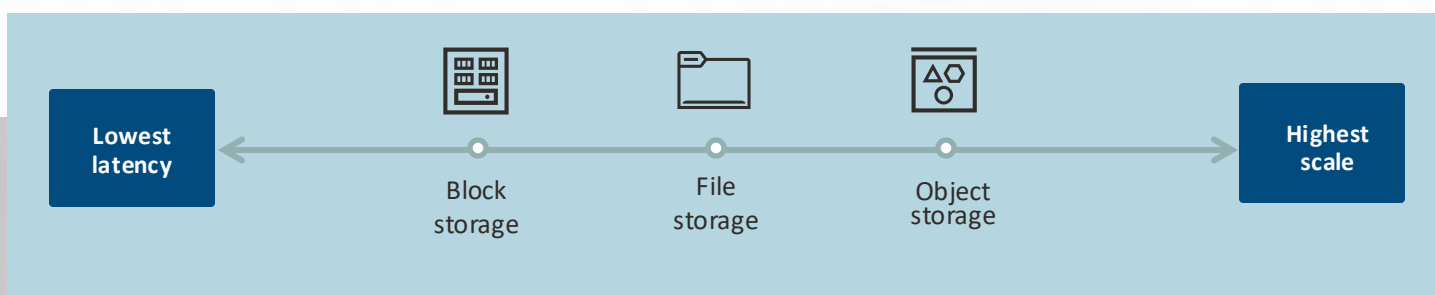
Customizable core and memory options

Create the exact compute and memory resources needed to match workloads via OCI Dedicated Region's Flexible Shapes

On-premises cloud bare metal servers

For workloads that can run only in non-virtualized environments (due to compatibility and performance needs)

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 that automatically scales

A fully managed Network File System (NFS) that scales automatically up to 8 exabytes, multi way replication ensures 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

OCI Dedicated Region enables customers to meet their regulatory, data privacy, latency, and internal security requirements. OCI 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. OCI 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

OCI Dedicated Region regions operate in the same way as all other OCI regions by using the same tools, policies, and procedures.

Base compliance, at no additional cost	SOC 1, SOC 2, ISO 27001/17/18, HIPAA, 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	IAM policies, vault service, Cloud Guard, etc. ¹ protect cloud resources
Infrastructure Security	Isolate management network from customer network, tenants and compartments
Data center Physical Security	Restricted access with multiple levels of authorization, clean hardware and firmware

¹See [OCI documentation](#) for full list

“This in-country infrastructure capability allows us to run all our IT services on a multitenant cloud infrastructure with physical control of infrastructure and data to help meet our country’s regulatory, data residency, latency requirements, and help boost the Sultanate’s digital economy.”

Said Al Mandhari

CEO, Oman ICT Group

OICT GROUP

المجموعة العمانية للاتصالات وتقنية المعلومات

Sultanate of Oman selects OCI Dedicated Region to strengthen its digital economy

The Oman Information and Communications Technology Group (OICT) selected OCI Dedicated Region 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

Analyst Highlights for OCI Dedicated Region

“ OCI Dedicated Region enables the user to set up an OCI region right inside the datacenter (hence the dedicated designation) and run all second-generation Oracle cloud services including all the cloud database offerings, the HA/DR, and the applications, in the datacenter.

Carl Olofson
Research Vice President, IDC



“ Oracle’s Dedicated Region matches on-premises deployment with public cloud. This gives CxOs the peace of mind that their on-premises Oracle stack is being managed as well and as efficiently as Oracle is managing its public cloud data centers.

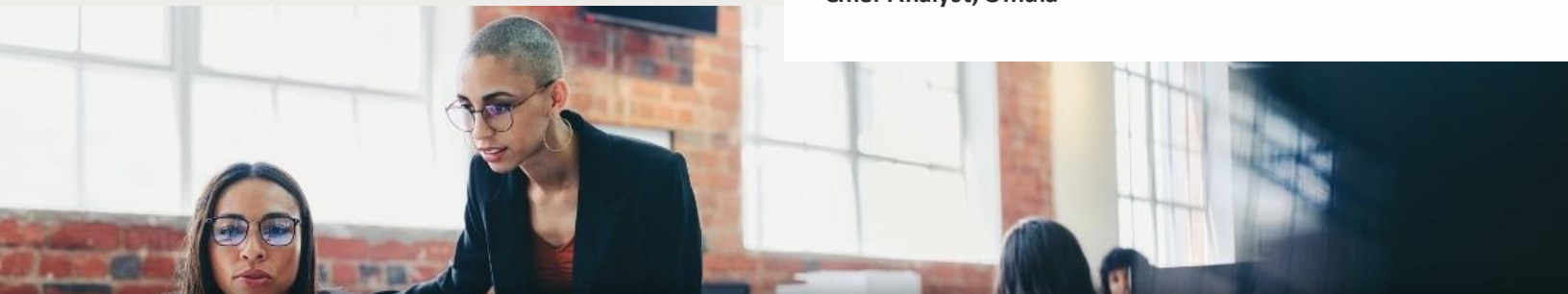
Holger Mueller
Vice President, Constellation Research



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 Illsley
Chief Analyst, Omdia



OCI recognized as a Leader in 2024 Gartner Magic Quadrant for Distributed Hybrid Infrastructure

Explore the asset



OCI Resources



Overview Content

- OCI Dedicated Region Product Page
- OCI Dedicated Region FAQ
- OCI Dedicated Region Customer Success
- Oracle Cloud Infrastructure Overview



Videos and PDFs

- NRI innovates with two OCI Dedicated Regions (video)
- Oman ICT Group moves to OCI Dedicated Region (video)
- OCI Dedicated Region At-A-Glance (PDF)



Technical resources

- OCI Technical Documentation
- Oracle Architecture Center



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