

## ORACLE CLOUD SERVICES

# Oracle Database Cloud Service on Bare Metal Servers



Businesses around the world are embracing cloud solutions to acquire on-demand technology platforms and infrastructure, enabling a new wave of IT innovation. However, many companies replace their infrastructure for a commodity cloud vendor, and then realize that they need advanced platform capabilities that the vendor can't offer. Oracle offers the most comprehensive set of cloud offerings not only for Infrastructure-as-a-Service (IaaS), but also for Platform-as-a-Service (PaaS) and Software-as-a-Service (SaaS), all fully integrated. Oracle Cloud is an innovative platform that offers the most complete, secure, and highly scalable environment to simplify data management in the cloud.

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## Choose Your Database Cloud Service

Oracle provides customers with a variety of choices on how they wish to deploy Oracle Database in the cloud.

### Oracle Database Exadata Express Cloud Service



- Perfect for small and medium sized databases
- Provisioned within minutes and fully managed by Oracle
- Ideal for running departmental applications, or dev and test databases

### Oracle Database Cloud Service



- Oracle Database; pay-per-use hourly metered or subscription
- Automated provisioning of high availability configurations
- Comes with an integrated Oracle Application Express environment

### Oracle Database Exadata Cloud Service



- The Extreme Performance of Exadata in the cloud
- Ideal for OLTP, Data Warehouse / Real-time Analytics
- You control your database, Oracle manages the infrastructure

### Oracle Database Cloud Service on Bare Metal Servers



- Oracle Database on dedicated compute, storage and networking
- No virtualization overhead for consistent high performance
- Fast and elastic provisioning that remains under customer control

Many customers prefer to run database workloads on a non-virtualized (no VM overhead) environment in order to ensure quality of service through improved and predictable performance. In addition, other customers have security concerns of sharing a virtual environment with unknown "neighbors". These customers prefer firewall security isolation between tiers. Database Cloud Service running on a bare metal servers solves all these problems and more.

# Bare Metal Cloud Service on Oracle Cloud



**Dedicated physical servers and network** ensure that noisy neighbors won't impact your performance



**No virtualization overhead and local NVMe disks** to provide the best performance and storage latency for databases running on latest generation commodity servers

Oracle continues to expand the Oracle Cloud Platform, making it even easier for customers to build or move their business-critical applications to the cloud. One such new offering is the Database Cloud Service running on a bare metal servers, a high-performance service that extends support for Oracle or non-oracle software application stacks.

Oracle Database Cloud Service on bare metal servers provides customers with:

- Dedicated bare metal servers and networking to remove “noisy neighbors” and provided predictable high-performance
- No virtualization overhead and local NVMe disks to provide the best performance and storage latency
- Fast and elastic provisioning that remains under customer control
- IPSEC VPN and L3 network control to ease integration with your public or private cloud environments
- Governance designed for enterprises and complex organizations
- Resource isolation and multilayered security ensures data integrity while data is on-line, off-line or in transit

## Customer Benefits



**Predictable High Performance**



**100% compatibility for Oracle Database and Applications**



**Admin Automation**



**Utility Style Billing - Pay For What You Use**

# Technology and Business Value



Running Oracle Database on Oracle’s latest generation IaaS services, customers can achieve over 50 times the performance of Amazon Relational Database Service (RDS). This is achieved by a combination of no overhead from virtualization and dedicated, low latency network services that are never oversubscribed, giving guaranteed bandwidth to a given server instance. The use of local NVMe disks reduces data hops and the need for host bus adapter translations, removing lots more latency and also dramatically increasing the amount of bandwidth between the host and the drive.

Further enhancing the Oracle Cloud Platform, new IaaS services expand support for web-scale and enterprise applications. Oracle IaaS now offers four-core high-performance virtual machines that come integrated with block volumes, and object storage, all on the same low latency Virtual Cloud Network (VCN). In addition, a new Load Balancing Service adds three IP load balancing shapes – from 100Mbps to 8Gbps – supporting a range of application traffic, availability, and security needs. Other enhancements include a new

Combining these features along with a true pay-per-use compute bursting model delivers the most flexible set of bare metal database services offered by a leading cloud services provider, addressing a significant portion of the database market that insists on running their databases in a non-virtualized environment. Other leading cloud providers do not deliver this capability.

## Configurations

Two server shapes available:

High IO	Dense IO
1x x86 server	1x x86 server
2-36 cores	2-36 cores
512 GB memory	512 GB memory
4 x 3.2 TB NVMe storage for data/reco/redo	9 x 3.2 TB NVMe storage for data/reco/redo
Single-instance DB	Single-instance DB

High Performance NVMe Flash Storage is locally attached for best performance



### Hybrid Cloud Enablement

Easily integrates bare metal cloud deployment with your public or private cloud environment



### Bare Metal Deployment Option

- Online computing scale
- Local NVMe flash
- Low latency fabric



### Increased Security

- Private network
- Identity policies
- Increased control



### Database Maximum-Availability Architecture

- Deployment options across availability domains
- 2-3 way mirroring on local NVMe flash

# Summary



**Dedicated Infrastructure  
for Higher performance  
and Security**



**Cloud Elastic Resources  
and Utility Style Billing**



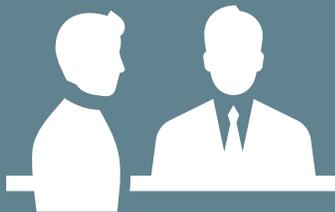
**Run Any Oracle or  
Non-Oracle Software  
Application Stack**

## Go to the Cloud with Oracle

Join us in the cloud and...

- Expedite the deployment and management of your test/dev or production environments
- Enjoy 100% Oracle Database workload compatibility and simple management
- Encourage app innovation through greater agility and flexibility
- Accelerate time to value and get ahead of the competition

...and that means reduced costs, improved flexibility and scalability, faster business insights, and—critically—a genuine competitive advantage. So whether you're a small firm or large enterprise, go to the cloud with Oracle.



## Contact Your Oracle Account Manager for Product Details

Estimate your monthly cost for Oracle's Bare Metal Cloud services with [this online cost calculator tool.](#)



**For more information, please visit:**  
[cloud.oracle.com/database](http://cloud.oracle.com/database)

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