OCI Compute - Bare Metal

All-in-One Datasheet (Beta) Produced by DBExpert

Overview

Oracle Bare Metal shapes are well-suited for user-deployed and managed application and database workloads requiring high core counts, large amounts of memory, and high memory bandwidth. Users can build cloud environments with significant performance improvements over other public clouds and on-premises data centers. Bare metal compute instances provide exceptional isolation, visibility, and control. Bring Your Own License (BYOL) required for all licensed software that will be deployed. Note: the OCI BM shapes listed below are those best suited for Oracle Database deployments.

Visit the DB Expert Services Taxonomy page to get the latest version of this data sheet and see data sheets for all of the Oracle Cloud Database services.

Deployment

Database Type	Single Database
Management Model	Customer Managed
Supported Cloud Environments	Oracle Cloud Infrastructure
SKUs for starting configuration	B91961 (DB storage) B91962 (DB storage performance units) B91628 (backup storage)
DB Versions Supported	Oracle 19c (Long-term release), Oracle 12.2.0.1 (with Upgrade Support), Oracle 12.1.0.2 (with Upgrade Support), Oracle 11.2.0.4 (with Upgrade Support)
Hardware Infrastructure	Dedicated General Purpose

Usage Models

Recommended Workloads	Analytics Blockchain Data Science / Machine Learning Data Warehouse / Data Mart Graph Mixed Workload (Transaction + Analytics) Transaction Processing (OLTP)
Recommended Data Models	Document Store (JSON) Document Store (XML) NoSQL Spatial

	Text
Certified Oracle Applications	Enterprise Performance Management (Hyperion) 11.2 FLEXCUBE 14.7 JD Edwards EnterpriseOne Tools 9.2.6 and later Oracle APEX Oracle Fusion Middleware 14.1.2.0.0 Oracle Primavera P6 EPPM Version 23 PeopleSoft PeopleTools 8.62 and later Siebel Enterprise Server 25.2 and later

Capacity

Configuration Options	Oracle Database can be deployed on Bare Metal Standard and Dense I/O shapes. A bare metal compute instance gives you dedicated physical server access for highest performance and strong isolation. Standard shapes: Designed for general purpose workloads and suitable for a wide range of applications and use cases. Standard shapes provide a balance of cores, memory, and network resources. Dense I/O shapes: Designed for large databases, big data workloads, and applications that require high performance local storage. Dense I/O shapes include locally attached NVMe-based SSDs.
CPU Range	64 to 192 OCPUs
Shapes	IaaS - BM.Standard3.64 OCPUs: 64 to 64 Max DB TB: 800 IaaS - VM.Standard.E6.Flex OCPUs: 1 to 126 Max DB TB: 800 IaaS - BM.DenseIO.E4.128 OCPUs: 128 to 128 Max DB TB: 825 IaaS - BM.Standard.E4.128 OCPUs: 128 to 128 Max DB TB: 800

	IaaS - BM.Standard.E5.192 OCPUs: 192 to 192 Max DB TB: 800
CPU scaling	Offline
Storage scaling	Online
Max IOPs	-
Max Throughput	50 GBPs
Max Memory	2304 GB (with Standard.E5)

Availability

Nines of availability (may require configuration)	N/A
Oracle DB Maximum Availability Architecture medals (for OCI / Cloud@Customer deployments)	Bronze
Automated backups max retention	Not Available
Long-term backup retention (up to 10 years)	Yes

Functionality Included

Included Oracle DB Options for license-included service (*)	None
Included Oracle EM Packs for license-included service (*)	None
Free Add-Ons (no extra licensing required)	

*Check service documentation for feature availability and limitations

Locations

Oracle Cloud Infrastructure

APAC: AU Gov Southeast - WGA, Chuncheon - YNY, Hyderabad - HYD, Melbourne - MEL (G), Mumbai - BOM (G), Osaka - KIX, Seoul - ICN (A), Singapore - SIN (A, G), Singapore West - XSP, Sydney - SYD (G), Tokyo - NRT (A, G)

EMEA: Abu Dhabi - AUH, Amsterdam - AMS (A), Dubai - DBX, EU Sovereign Central - STR, EU Sovereign South - VLL, Frankfurt - FRA (A, G), Jeddah - JED, Jerusalem - MTZ, Johannesburg - JNB (A), Jovanovac - BEG, London - LHR (A, G), Madrid - MAD (G), Marseille - MRS, Milan - LIN, Newport - CWL, Paris - CDG, Riyadh - RUH, Stockholm - ARN, UK Gov South - LTN, UK Gov West - BRS, Zurich - ZRH (G)

LAD: Bogota - BOG, Monterrey - MTY, Queretaro - QRO, Santiago - SCL, Sao Paulo - GRU (G), Valparaiso - VAP, Vinhedo - VCP (A)

North America: Ashburn - IAD (A, G), Chicago - ORD, Montreal - YUL (G), Phoenix - PHX (A), San Jose - SJC (A), Toronto - YYZ (A), US DoD East - RIC, US DoD North - PIA, US DoD West - TUS, US Gov East - LFI, US Gov West - LUF

* New services and hardware generations are rolled out across regions, check your region for current status. (A) = Interconnect to Microsoft Azure available. (G) = Interconnect to Google Cloud available

Azure

None to date. Visit the Multicloud Updates page (link below) to check on potential roadmap items.

Google Cloud

None to date. Visit the Multicloud Updates page (link below) to check on potential roadmap items.

AWS

None to date. Visit the Multicloud Updates page (link below) to check on potential roadmap items.

Multicloud Updates

Operational Controls

Allows installing additional software/agents on the host	Yes
Allows installing OS packages	Yes
Allows kernel changes	Yes
Allows OS runtime changes	Yes
Allows sysdba access	Yes
Oracle operator access control	No
Control DB patch level	Yes
Control DB release update (RU) level	Yes
Control DB version	Yes
Control maintenance window	Yes
Preview and Validate Patches for Zero-Regression SLO	N/A

Additional Information

Open Source DB	No
Delta Sharing / Cloud Links	No

Select AI to Generate SQL from Natural Language Prompts	No
Mongo-compatible API	Yes
Supports non-CDB home	Yes

Reference Links

General

Oracle PaaS and IaaS Universal Credits Service Descriptions
Service Level Objectives
Oracle DB Maximum Availability Architecture medals
Oracle Cloud Infrastructure Compliance
Oracle Database Releases
BYOL FAQ
OCI Locations and Status
Oracle Database Multicloud Regions, Capabilities, Compliance, High Availability and Migration

Service Specific

Compute - Bare Metal and Virtual Machines
Cost Estimator
IaaS Bare Metal Customer References
Oracle Database Cloud Migration