



# OCI Compute - Bare Metal

All-in-One Datasheet Produced by DB Services Explorer

## 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 Services Explorer Portfolio 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)<br>B91962 (DB storage performance units)<br>B91628 (backup storage)  |
| Oracle AI Database BYOL Support | BYOL Standard Edition (SE) and Enterprise Edition (EE)   |
| 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<br>Blockchain<br>Data Science / Machine Learning<br>Data Warehouse / Data Mart<br>Graph<br>Mixed Workload (Transaction + Analytics)<br>Transaction Processing (OLTP) |
| Recommended Data Models | Document Store (JSON)  |

|                                      |  |
|--------------------------------------|--|
|                                      | Document Store (XML)<br>NoSQL<br>Spatial<br>Text   |
| <b>Certified Oracle Applications</b> | Enterprise Performance Management (Hyperion) 11.2<br>FLEXCUBE 14.7<br>JD Edwards EnterpriseOne Tools 9.2.6 and later<br>JD Edwards EnterpriseOne Tools 9.2.9.3 and later<br>Oracle APEX AI Application Generator<br>Oracle Fusion Middleware 14.1.2.0.0<br>Oracle Primavera P6 EPPM Version 23<br>PeopleSoft PeopleTools 8.62 and later<br>Siebel Enterprise Server 25.2 and later |

## Capacity

|                              |  |
|------------------------------|--|
| <b>Configuration Options</b> | 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.<br>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.<br>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. |
| <b>CPU Range</b>             | 64 to 192 OCPUs  |
| <b>Shapes</b>                | IaaS - BM.Standard3.64<br>OCPUs: 64 to 64<br>Max DB TB: 800<br>IaaS - BM.DenseIO.E4.128<br>OCPUs: 128 to 128<br>Max DB TB: 825<br>IaaS - BM.Standard.E4.128<br>OCPUs: 128 to 128<br>Max DB TB: 800<br>IaaS - BM.Standard.E5.192<br>OCPUs: 192 to 192<br>Max DB TB: 800   |

|                        |                            |
|------------------------|----------------------------|
| <b>CPU scaling</b>     | Offline                    |
| <b>Storage scaling</b> | Online                     |
| <b>Max IOPs</b>        | -                          |
| <b>Max Throughput</b>  | 50 GBPs                    |
| <b>Max Memory</b>      | 2304 GB (with Standard.E5) |

## Availability

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

## Functionality Included

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

\*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 - DXB, 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), Madrid 3 - ORF, Marseille - MRS, Milan - LIN, Newport - CWL, Paris - CDG, Riyadh - RUH, Stockholm - ARN, Turin - NRQ, 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, G), San Jose - SJC (A), Toronto - YYZ (A, G), 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

[Multicloud Interconnect](#)

[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](#)