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OCI Compute - Virtual Machine
All-in-One Datasheet (Beta) Produced by DBExpert

Overview

Oracle Virtual Machine Shapes are well-suited for user-deployed and managed application and database workloads. VM shapes can be built to match the CPU and memory required by the workload, enabling performance and cost optimization. Bring Your Own License (BYOL) required for all licensed software that will be deployed. Note: the OCI VM 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	Shared 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

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Certified Oracle Applications	Enterprise Performance Management (Hyperion) 11.2 FLEXCUBE 14.7 JD Edwards EnterpriseOne Tools 9.2.6 and later Oracle APEX Oracle E-Business Suite 12.1.3 Oracle E-Business Suite 12.2.3 and later Oracle E-Business Suite 12.2.7 and later Oracle Fusion Middleware 14.1.2.0.0 Oracle Primavera P6 EPPM Version 23 Oracle Value Chain Planning 12.2.7 and above PeopleSoft PeopleTools 8.62 and later Siebel Enterprise Server 25.2 and later

Capacity

Configuration Options	Oracle Database can be deployed on VM (virtual machine) Standard shapes. A VM is an independent computing environment that runs on top of physical bare metal hardware. The virtualization makes it possible to run multiple VMs that are isolated from each other. VMs are ideal for running applications that do not require the performance and resources (CPU, memory, network bandwidth, or storage) of an entire physical machine. Standard shapes are 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.
CPU Range	1 to 94 OCPUs
Shapes	IaaS - VM.Standard3.Flex OCPUs: 1 to 32 Max DB TB: 800 IaaS - VM.Standard.A1.Flex OCPUs: 1 to 64 Max DB TB: 400 IaaS - VM.Standard.E3.Flex OCPUs: 1 to 64 Max DB TB: 800 IaaS - VM.Standard.E4.Flex OCPUs: 1 to 64 Max DB TB: 800 IaaS - VM.Standard.E5.Flex OCPUs: 1 to 94

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	Max DB TB: 800
CPU scaling	Offline
Storage scaling	Online
Max IOPs	8K: 640k
Max Throughput	5000 MBPs
Max Memory	64 GB per OCPU, up to 1454 GB total (E6.Flex)

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)

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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

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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 VM Customer References](#)

[Oracle Database Cloud Migration](#)

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