

Oracle Compute Cloud@Customer Isolated

An air-gapped, secured & sovereign rack-scale cloud infrastructure solution for classified and mission critical workloads that enables a disconnected mode of operation

ORACLE COMPUTE CLOUD@CUSTOMER ISOLATED

Public cloud adoption has become mainstream as enterprises and governments take advantage of managed services, cloud economics, scale, security, and agility. In contrast, defence, government, and intelligence communities typically run classified workloads and proprietary data on-premises, due to data sovereignty and security requirements. Yet, these agencies require the innovation, security, and computing scale of a dedicated full-featured cloud platform.

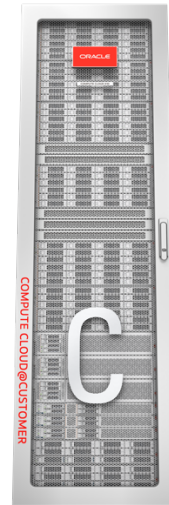
Oracle Compute Cloud@Customer Isolated delivers the same compute, storage, and networking services and tools available from Oracle Compute Cloud@Customer. It helps organizations accelerate AI innovation and improve efficiency, while maintaining sovereignty of their data and the operation of the underlying infrastructure. It can be deployed as a single rack and scaled up as needed, which enables organizations to quickly deploy OCI Compute services on-premises in isolation in locations with unique data sovereignty requirements.

ORACLE COMPUTE CLOUD@CUSTOMER ISOLATED HARDWARE

Compute Cloud@Customer Isolated delivers the same compute shapes and storage capabilities as in Oracle Public Cloud – AMD E6 compute and block/file/object storage. Internal connectivity between the infrastructure components is enabled by an internal 100 Gbps Ethernet backbone. Up to 800 Gbps data center connectivity from/to Compute Cloud@Customer is provided using standard 10G, 25G, 40G or 100G Ethernet links. Compute Cloud@Customer Isolated supports Flex Network capabilities enabling direct connectivity with Oracle Exadata, Oracle Database Appliances, and external Oracle ZFS Appliances.

ORACLE COMPUTE CLOUD@CUSTOMER SOFTWARE

Compute Cloud@Customer software stack utilizes the same infrastructure APIs, CLI and SDK as public Oracle Cloud Infrastructure which enables full compatibility with OCI, providing customers with OCI compute on-premises. Utilizing the infrastructure-as-code feature available with Compute Cloud@Customer, capabilities such as Software Defined Compute, Software Defined Storage and Software Defined Networking are native to Compute Cloud@Customer.



Oracle Cloud Infrastructure Kubernetes Engine (OKE)

OKE - a managed Kubernetes service - simplifies the operations of enterprise-grade Kubernetes at scale. OKE lets you deploy Kubernetes clusters and ensure reliable operations for both the control plane and the worker nodes with automatic scaling, patching and security updates. OKE on Compute Cloud@Customer brings basic cluster capabilities on-premises delivering reduced overall utilization, modernization and consolidation and lower total cost of ownership.

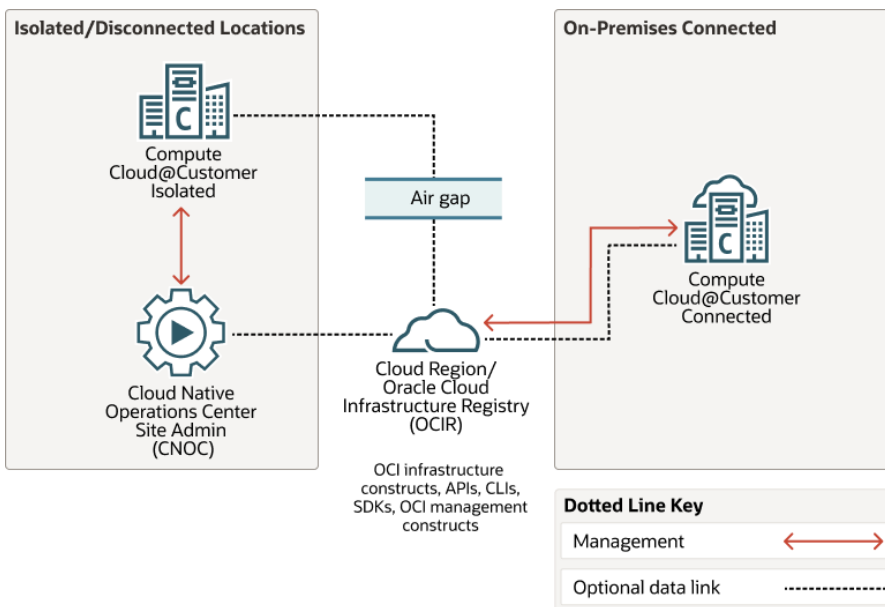
GPU Expansion Options for Oracle Compute Cloud@Customer Isolated

Oracle Compute Cloud@Customer Isolated helps organizations accelerate AI innovation and improve efficiency, while maintaining data sovereignty by enabling support of up to [48 NVIDIA L40S GPUs](#) in an air-gapped environment. Oracle brings AI/ML acceleration and scalable compute power to enterprises in a flexible, cost-effective solution, catering to all deployment scales and requirements of customers.

Related services

The following services are complementary to Compute Cloud@Customer Isolated:

- Oracle Cloud Infrastructure
- Oracle Compute Cloud@Customer Isolated
- Oracle Roving Edge Infrastructure
- Oracle Exadata and Exadata Cloud@Customer
- Product Support Services
- Professional Services



CLOUD SUBSCRIPTION OVERVIEW

Infrastructure Subscription

Compute Cloud@Customer Isolated is available through an infrastructure subscription offering that requires a minimum term of 48 months. Customers can choose a configuration starting with a base system with 552 OCPUs and 150TB of storage. Customers with additional resource requirements may choose larger Compute Cloud@Customer Isolated configurations which include higher compute and storage capacity.

Customers can also expand the compute and storage capacity during the lifetime of a subscription. Granular scalability of compute and storage servers lowers infrastructure costs by enabling customers to properly size their hardware configuration to match their workload requirements.

All the compute, memory and storage for the configuration chosen is included in the subscription price. Detailed specifications for each Compute Cloud@Customer configuration are provided in Table 2 below.

Customers can deploy their existing software licenses on Compute Cloud@Customer. Further information about Oracle Linux, Java SE and GraalVM entitlements can be found [here](#).

MIGRATION TO COMPUTE CLOUD@CUSTOMER

Full compatibility between on-premises applications and applications deployed on Compute Cloud@Customer Isolated makes migration to Compute Cloud@Customer Isolated simple and low risk. Oracle recommends using available cloud migration tooling as a best practice for moving workloads to Compute Cloud@Customer.

For more information on moving workloads to Oracle Cloud, visit <https://www.oracle.com/webfolder/assets/digibook/cloud-migration/index.html>

SECURE, ON-PREMISES MANAGED CLOUD FOR ALL YOUR APPLICATIONS

Enterprise-proven capabilities are now instantly available to maximize productivity, lower risk and accelerate time-to-value. No changes to on-premises applications are required either, enabling rapid and easy migration to the cloud, or deployment of a hybrid cloud strategy. Customers can bring existing on-premises software licenses, thus leveraging existing investments.

Oracle uniquely delivers all these benefits in both the public cloud and in customer’s own data center with Compute Cloud@Customer and Compute Cloud@Customer Isolated.

For more information, visit <https://www.oracle.com/compute-cloud-at-customer>

Table 1 – Oracle Compute Cloud@Customer Isolated: Infrastructure Features

	INFRASTRUCTURE	OCI INTEROPERABILITY
OCI Services and Features	<p>Compute VM Shapes</p> <ul style="list-style-type: none"> Flex Shapes: 1-96 OCPUs, 1-64 GB per OCPU, up to 960 GB per instance Supported guest operating systems include: Oracle Linux, Oracle Solaris, 3rd Party Linux and Microsoft Windows. See product documentation for guest requirements. <p>Storage</p> <p>Block</p> <ul style="list-style-type: none"> “Balanced” and (optional) “Performance” pools On-demand and policy-based backups <p>File</p> <ul style="list-style-type: none"> NFS v3, v4.1, SMB 3.1/2.0 Snapshots <p>Object</p> <ul style="list-style-type: none"> OCI object store <p>Network</p> <ul style="list-style-type: none"> VCNs, Subnets, Gateways, Security Lists, Route Tables, ... <p>Governance</p> <ul style="list-style-type: none"> Integration with OCI IAM and Active Directory 	<p>User & Administrative Access</p> <ul style="list-style-type: none"> OCI API, CLI and SDK OCI Designer Toolkit (OKIT) OCI user interface Terraform <p>Portability</p> <p>Seamless movement to and from OCI</p> <ul style="list-style-type: none"> Infrastructure configuration VM images Terraform scripts Infrastructure-as-code (Software defined compute, storage and networking) <p>Load Balancer</p> <ul style="list-style-type: none"> Load Balancer as a Service (LBaaS) <ul style="list-style-type: none"> Application Load Balancer Network Load Balancer
Available OCI Resources	<p>Compute</p> <ul style="list-style-type: none"> 552 – 6072 OCPUs 6.7 – 73.7 TB memory <p>Storage</p> <ul style="list-style-type: none"> 150 TB – 3.65 PB Combined Balanced Block, File, and Object storage 	<p>Governance</p> <ul style="list-style-type: none"> OCI IAM integrates with customer tenancy and can be further partitioned using compartments

- Up to 1.2 PB Performance Block storage

Table 2 – Compute Cloud@Customer Isolated: Technical Specifications

The Compute Cloud@Customer is available in these SKU configurations in the base rack:

ITEM	3-NODE	6-NODE	9-NODE
Number of Available OCPUs	552	1104	1656
Memory Available for Guest VMs (TB)	6.7	13.4	20.1
Usable storage capacity (TB)	150	150	150

Table 3 – Compute Cloud@Customer Isolated: Expansions

The Compute Cloud@Customer configurations can be expanded using these expansion SKUs

ITEM	CONFIG
Compute Expansion	3-nodes, 552 OCPUs, 6.7 TB Memory
Balanced Storage Expansion	175 TB usable
Performance Storage Expansion	60 TB usable

Table 4 – Compute Cloud@Customer Isolated: Environmental Specifications

METRIC	3-NODE (SMALL)	6-NODE (MEDIUM)	9-NODE (LARGE)
Height	78.66 in, 1998 mm (42 RU)		
Width	23.62 in, 600 mm		
Depth	47.24 in, 1200 mm		
Weight	1302 lbs, 592 Kg	1476 lbs, 671 Kg	1650 lbs, 750 Kg
Maximum power usage Watts	10759	14659	18559
Typical power usage ¹ Watts	7531	10261	12961
Cooling at maximum usage BTU/Hr	36710	50017	63323
Cooling at typical usage BTU/Hr	25696	35011	44325
Airflow at maximum usage ² CFM	1700	2316	2932
Airflow at typical usage ² CFM	1190	1621	2052

METRIC	E6 COMPUTE	STORAGE ENCLOSURE DE3-24C	STORAGE ENCLOSURE DE3-24P
Height	3.42 in, 86.9 mm (2 RU)	6.89 in, 175 mm (4 RU)	3.42 in, 86.9 mm (2 RU)
Width	17.52 in, 445 mm	19 in, 483 mm	19 in, 483 mm
Depth	29.76 in, 756 mm	24.8 in, 630 mm	24.8 in, 630 mm
Weight	58 lbs, 26.3 Kg	101.41 lbs, 46 kg	52.91 lbs, 24 kg
Maximum power usage Watts	1300	285	238
Typical power usage ¹ Watts	910	200	167
Cooling at maximum usage BTU/Hr	4438	973	812
Cooling at typical usage BTU/Hr	3105	875	568
Airflow at maximum usage ² CFM	205	45	40
Airflow at typical usage ² CFM	144	32	28

1) Operating temperature / humidity: 5 °C to 32 °C (41 °F to 90 °F), as measured by an industry grade temperature measurement device directed at the front bezel of the servers, 10% to 90% relative humidity, non-condensing.

2) Operating altitude: Up to 3,048m, max. ambient temperature is de-rated by 1 °C per 300m above 900m.

1 Typical power usage varies by application load. 2 Airflow must be front-to-back.

Table 5 – Oracle Compute Cloud@Customer Isolated: System Hardware

COMPUTE	STORAGE	NETWORKING
<p>Compute Nodes</p> <ul style="list-style-type: none"> CPU: 2x 5th Gen AMD EPYC™ processors, 96C/2.6GHz/400W DRAM: 2.25TB, 24x 96GB DDR5-6400 Boot: 2x M.2 480GB NVMe SSD 	<p>Controllers</p> <p>Oracle ZFS Storage ZS11-2 Dual-controller HA cluster</p> <ul style="list-style-type: none"> CPU: 2x 5th Gen AMD EPYC™ processors, 32C/2.95GHz/210W DRAM: 1.5TB, 24x 64GB DDR5-6400 Boot: 2x U.2 3.84TB NVMe SSD 	<p>Leaf Switches</p> <p>100 Gbps flexible speed switch using QSFP28 ports</p> <p>Spine Switches</p> <p>100 Gbps flexible speed switch using QSFP28 ports</p> <ul style="list-style-type: none"> QSFP+ transceivers (0 to 4) QSFP28 transceivers (0 to 4) <p>Management Switch</p> <p>48-port 1/10 Gbps Ethernet Switch</p>
<p>Management Nodes</p> <ul style="list-style-type: none"> CPU: 2x 5th Gen AMD EPYC™ processors, 32C/2.6GHz/210W DRAM: 1.5TB, 24x 64GB DDR5-6400 RDIM Boot: 2x 480GB M.2 NVMe Storage: 2x 3.84TB NVMe SSD 	<p>Storage</p> <p>High Capacity (DE3-24C)</p> <ul style="list-style-type: none"> Minimum 1, maximum 20 disk enclosures 20x 22TB, SAS-3, 3.5-inch, 7200 RPM HDDs 2x read SSD accelerator 2x write SSD accelerator <p>High Performance (DE3-24P)</p> <ul style="list-style-type: none"> Up to 20 disk enclosures 20x 7.68TB SAS-3 2.5-inch SSDs 2x write SSD accelerator 	
REGULATIONS ^{1,2,3}	CERTIFICATIONS ^{2,3}	EUROPEAN UNION DIRECTIVES ³
<p>Product Safety</p> <ul style="list-style-type: none"> UL/CSA 60950-1, EN 60950-1, IEC60950-1 CB Scheme with all country differences UL/CSA 62368-1, EN 62368-1, IEC62368-1 CB Scheme with all country differences <p>EMC</p> <ul style="list-style-type: none"> Emissions: FCC CFR 47 Part15, ICES-003, EN55032, KSC9832, EN61000-3-11, EN61000-3-12 Immunity: EN55024, KSC9835 	<ul style="list-style-type: none"> North America (NRTL) CE (European Union) International CB Scheme HSE Exemption (India) BSMI (Taiwan) RCM (Australia) VCCI (Japan) KC (Korea) UKCA (United Kingdom) 	<ul style="list-style-type: none"> 2014/35/EU Low Voltage Directive 2014/30/EU EMC Directive 2011/65/EU RoHS Directive 2012/19/EU WEEE Directive

1 All standards and certifications referenced are to the latest official version. For additional details, please contact your sales representative.

2 Other country regulations/certifications may apply.

3 In some cases, as applicable, regulatory and certification compliance were obtained for the shelf-level systems only.

5 Data Sheet / Oracle Compute Cloud@Customer Isolated / Version 2



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