### **1.1 Overview**

Oracle GoldenGate on Oracle Cloud Marketplace is the cloud based version of Oracle GoldenGate and provides the same benefits, scalability, security, and robustness that you can rely on for enterprise replication.

### **1.2 Resources**

The Oracle GoldenGate image on Oracle Cloud Marketplace contains the latest Oracle GoldenGate release along with Oracle Database Client software for all supported versions of Oracle Database.

For supported Oracle Database platforms for Oracle GoldenGate, see the [latest certification matrix](https://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html).

All the software on Oracle GoldenGate Compute node is installed under the /u01/app directory structure.

Supported Compute Shapes

Oracle GoldenGate runs on different OCI Compute Sizes. The following table provides details on the supported OCI Compute Sizes:

| **Compute Shape** | **CPU** | **Memory** | **Bandwidth** |
| --- | --- | --- | --- |
| VM.Standard2.4 | 4 | 60 | 4.1 Gbps |
| VM.Standard2.8 | 8 | 160 | 8.2 Gbps |
| VM.Standard2.16 | 16 | 240 | 16.4 Gbps |
| VM.Standard2.24 | 24 | 320 | 24.6 Gbps |

For pricing details on compute nodes, please refer to [**OCI Pricing**](https://www.oracle.com/cloud/compute/pricing.html)**.**

Block Storage

The following table provides details on the default block storage configuration used by Oracle GoldenGate on Oracle Cloud Marketplace.

| **Volume** | **Default Size** | **Configurable** |
| --- | --- | --- |
| Boot | 50GB | Yes |
| Swap | 256GB | Yes |
| Trail | 512GB | Yes |
| Deployments | 128GB | Yes |
| Cache Manager | 128GB | Yes |

For pricing details on block storage, please refer to [Oracle Storage Cloud Pricing](https://www.oracle.com/cloud/storage/pricing.html).

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### **1.3 Cross Cloud Functionality**

Oracle GoldenGate is designed for large scale, cloud based architectures and Oracle GoldenGate on Oracle Cloud Marketplace is a key to many cloud-based solutions. By using Oracle GoldenGate from the Oracle Cloud Marketplace, you can replicate data from on premise to the Oracle Cloud, between data points within the Oracle Cloud, or even between third party clouds.

The following table provides a matrix on cross cloud support for replication by using Oracle GoldenGate on the Oracle Cloud Marketplace:

Table 1-1 GoldenGate Cross-Cloud Support

| **Technology** | **Remote Capture** | **Remote Apply** |
| --- | --- | --- |
| Oracle Cloud | Yes | Yes |
| Amazon Web Services (AWS) | Yes | Yes |
| Microsoft Azure | Yes | Yes |
| Google Cloud | Yes | Yes |

**OCI-PRICING:**

**Compute - Virtual Machine Instances**

[Cost Estimator](https://www.oracle.com/cloud/cost-estimator.html)

| **Product** | **Unit Price** | **Metric** |
| --- | --- | --- |
| **Compute - Virtual Machine Standard - X7** | 0,05729878 € | OCPU Per Hour |
| **Compute - Virtual Machine Dense I/O - X7** | 0,11450775 € | OCPU Per Hour |
| **Compute - Standard - E3 - OCPU** | 0,0224525 € | OCPU Per Hour |
| **Compute - Standard - E3 - Memory** | 0,00134715 € | Gigabytes Per Hour |
| **Compute - Virtual Machine Standard - E2 Micro - Free** | Free | OCPU Per Hour |
| **Compute - Standard - E2** | 0,026943 € | OCPU Per Hour |
| **Database - Marketplace Compute Image - Microsoft SQL Enterprise** | 1,3202 € | OCPU Per Hour |
| **Database - Marketplace Compute Image - Microsoft SQL Standard** | 0,332297 € | OCPU Per Hour |

\*All compute instances use boot volumes as their system disk. Additional storage and boot volumes are billed at the standard block volumes service pricing. Note, that this is in addition to the price of the compute instance.

\*E3 SKUs will support resource-based pricing. The OCPU and the memory resources are priced separately and customers will need to purchase the Memory SKU along with the OCPU SKU. The memory to OCPU ratio can range from 1GB/OCPU upto 64 GB/OCPU.

**Compute - Bare Metal Instances**

| **Product** | **Unit Price** | **Metric** |
| --- | --- | --- |
| **Compute - Bare Metal Standard - X7** | 0,05729878 € | OCPU Per Hour |
| **Compute - Bare Metal Dense I/O - X7** | 0,11450775 € | OCPU Per Hour |
| **Compute - Bare Metal Standard - HPC - X7** | 0,0673575 € | OCPU Per Hour |
| **Compute - Standard - E3 - OCPU** | 0,0224525 € | OCPU Per Hour |
| **Compute - Standard - E3 - Memory** | 0,00134715 € | Gigabytes Per Hour |
| **Compute - Standard - E2** | 0,026943 € | OCPU Per Hour |

You can find upgrade options for previous shapes including BM.HighIO on the [Compute FAQ](https://www.oracle.com/cloud/compute/faq.html) page.

\*All compute instances use boot volumes as their system disk. Additional storage and boot volumes are billed at the standard block volumes service pricing. Note, that this is in addition to the price of the compute instance.

\*E3 SKUs will support resource-based pricing. The OCPU and the memory resources are priced separately and customers will need to purchase the Memory SKU along with the OCPU SKU. The OCPU and memory resources are fixed for E3 Bare Metal Instances but Virtual Machine Instances memory to OCPU ratio can range from 1GB/OCPU upto 64 GB/OCPU.

**Compute - Oracle Cloud VMware Solution**

| **Product** | **Unit Price** | **Metric** | **Additional Details** |
| --- | --- | --- | --- |
| **Compute - VMWare Solution** | 0,18240411 € | OCPU Per Hour | Additional OCPUs can be added in quantities of 52 OCPUs. |

Minimum of 156 OCPUs each month.

**Compute - GPU Instances**

Instances are available as both virtual machines and bare metal, providing flexibility and performance at the fraction of the cost of other public cloud providers.

| **Shape** | **GPUs** | **Architecture** | **GPU Interconnect** | **GPU Memory** | **CPU Cores** | **CPU Memory** | **Network** | **Price (GPU/hr)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| VM.GPU2.1 | 1x NVIDIA P100 | Pascal | N/A | 16 GB | 12 | 78 GB | 25 Gbps | 1,1451 € |
| BM.GPU2.2 | 2x NVIDIA P100 | Pascal | N/A | 32 GB | 28 | 192 GB | 2x 25 Gbps | 1,1451 € |
| VM.GPU3.1 | 1x NVIDIA V100 Tensor Core | Volta | N/A | 16 GB | 6 | 90 GB | 400 Mbps | 2,6494 € |
| VM.GPU3.2 | 2x NVIDIA V100 Tensor Core | Volta | NVIDIA NVLINK | 32 GB | 12 | 180 GB | 800 Gbps | 2,6494 € |
| VM.GPU3.4 | 4x NVIDIA V100 Tensor Core | Volta | NVIDIA NVLINK | 64 GB | 24 | 360 GB | 25 Gbps | 2,6494 € |
| BM.GPU3.8 | 8x NVIDIA V100 Tensor Core | Volta | NVIDIA NVLINK | 128 GB | 52 | 768 GB | 2x 25 Gbps | 2,6494 € |
| VM.GPU4.1\* | 1x NVIDIA A100 Tensor Core | Ampere | N/A | 40 GB | 7 | 224 GB | 6.25 Gbps | 2,7392 € |
| VM.GPU4.2\* | 2x NVIDIA A100 Tensor Core | Ampere | NVIDIA NVLINK | 80 GB | 15 | 480 GB | 12.5 Gbps | 2,7392 € |
| VM.GPU4.4\* | 4x NVIDIA A100 Tensor Core | Ampere | NVIDIA NVLINK | 160 GB | 30 | 960 GB | 25 Gbps | 2,7392 € |
| BM.GPU4.8 | 8x NVIDIA A100 Tensor Core | Ampere | NVIDIA NVLINK | 320 GB | 64 | 2048 GB | 8 x 200 Gbps RDMA | 2,7392 € |

* \*Available soon

**Compute - Operating Systems**

| **Operating Systems** | **Unit Price (OCPU Per Hour)** |
| --- | --- |
| **Oracle Linux 6/7\*** | Free |
| **CentOS 6.x/7.x** | Free |
| **Ubuntu 14.x/16.x** | Free |
| **Compute - Windows OS\*\***   * **Server 2016 Standard and Datacenter** * **Server 2012 R2 Standard and Datacenter** * **Server 2012 Standard and Datacenter** * **Server 2008 R2 Standard, Enterprise and Datacenter** | 0,0826252 € |

\*Oracle Linux Premier Support included. With the Unbreakable Enterprise Kernel (UEK), part of Oracle Linux, customers can take advantage of Ksplice zero-downtime updates.

\*\*Windows Server license cost is an add-on to the underlying compute instance price. You will pay for the compute instance cost and Windows license cost separately. You can get more information on how Microsoft Windows Server charges apply from the [Compute FAQ](https://www.oracle.com/cloud/compute/faq.html#charged) page.

**Compute - Legacy Compute Instances\***

| **Product** | **Unit Price** | **Metric** |
| --- | --- | --- |
| **Compute - Virtual Machine Standard - X5** | 0,05729878 € | OCPU Per Hour |
| **Compute - Bare Metal Standard - X5** | 0,05729878 € | OCPU Per Hour |

\*Legacy Compute Instances are in use by some current customers but are no longer available for new deployments.

## Oracle Storage Cloud Pricing

[Cost Estimator](https://www.oracle.com/cloud/cost-estimator.html)

| **Product** | **Unit Price** | **Metric** |
| --- | --- | --- |
| **Block Volume Storage** | $0.0255 | GB Storage Capacity / Month |
| **Block Volume Performance Units** | $0.0017 | Performance Units Per GB / Month   * 0 VPUs at $0 for Lower Cost * 10 VPUs at $0.017 for Balanced * 20 VPUs at $0.034 for Higher Performance |
| **Block Volume Storage - Government** |  | GB Storage Capacity / Month |
| **Block Volume Performance Units - Government** |  | Performance Units Per GB / Month   * 0 VPUs at $0 for Lower Cost * 10 VPUs at $0.017 for Balanced * 20 VPUs at $0.034 for Higher Performance |
| **Object Storage - Storage** | $0.0255 | Gigabyte storage capacity per month |
| **Object Storage - Requests** | $0.0034 | 10,000 requests per month |
| **File Storage** | $0.30 | Gigabyte storage capacity per month |
| **Archive Storage** | $0.0026 | Gigabyte storage capacity per month |
| **Storage Gateway** | Free |  |
| **Data Transfer Service (HDD)\*** | Free |  |
| **Data Transfer Service (Appliance)\*\*** | Free |  |

\*Customer is responsible for purchasing hard disk drives and paying for shipping data to and from Oracle Data Transfer Site.

\*\* For data export, Outbound Data Transfer Networking charges apply.

## Networking

[Cost Estimator](https://www.oracle.com/cloud/cost-estimator.html)

| **Product** | **Unit Price (GB Outbound Data Transfer Per Month)** |
| --- | --- |
| **Outbound Data Transfer - First 10 TB / Month** | Free |
| **Inbound Data Transfer** | Free |