ORACLE COMPUTE CLOUD SERVICE

KEY FEATURES
- Predictable Computing
- Lifecycle Management
- Secure Access
- Virtual Networking

KEY BENEFITS
- Speed of innovation and agility: Spin up virtual machine environments in minutes and tear them down when not needed.
- Predictable performance: Run legacy Oracle and/or third-party workloads on a predefined, isolated environment.
- Enterprise grade: Enjoy enterprise-level security, high performance, and HA capabilities.
- Secure access: Use a dynamic firewall to protect the virtual machine instance and SSH keys to restrict login access.

Oracle Compute Cloud Service is an infrastructure as a service (IaaS) offering that provides flexible and scalable computing, block storage, and networking services on Oracle Cloud. You can now set up and manage your computing and storage workloads in the cloud, on demand, using a self-service portal. You'll significantly reduce your computing costs and increase your business efficiency and agility. Use Oracle Compute Cloud Service to migrate your on-premises workloads to the cloud and reap the many cloud benefits.

Enterprise-Grade Infrastructure-as-a-Service (IaaS)

Finally, a cloud that is designed for your business-critical workloads! You can move your business-critical applications and other workloads into the cloud, while maintaining only the highest level of security, high-availability, flexibility, and control. Using Oracle Compute Cloud Service computing, storage, and networking, you can consume resources on demand. As a result, your Capex and personnel costs go down, and you gain high levels of scale and agility not possible in your on-premises environment.

You get access to Oracle Compute Cloud Service through the REST API, Python CLI, and a web-based UI.

- **Easy to use and manage.** Provision virtual machine (VM) instances in minutes through a self-service portal, on demand, and based on your business needs. Leverage preconfigured VM images or upload from your own on-premises VM images for faster provisioning. Use predefined launch plans and orchestrations for easy deployment of complex applications, ensuring high availability for the entire deployment.

- **Enterprise-grade security.** As the customer, you have complete control. You assign users into groups, along with their permissions, so that users' activity and access are policy-based. You have complete visibility over resource usage and network traffic in the cloud, which gives you robust monitoring on the entire environment. Maintain the highest level of security in your cloud environment because the Oracle Compute Cloud Service powerful multitenancy features provide complete isolation between tenants in the cloud.

- **Complete portability.** Build a hybrid cloud with your on-premises environment and Oracle Compute Cloud Service, and then easily and securely move workloads between environments.

Elastic Computing

Your business needs are ever-changing, so too the requirements for the computing resources that support your business. With Oracle Compute Cloud Service, you enjoy the maximum flexibility to adapt to any workload changes by easily scaling up and down your computing resources based on your business demands.

- **Consume what you need.** Launch VMs and block storage volumes through a self-service portal in minutes, using existing VM images or your own. VM instances can have various

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shapes (size and memory) based on your workload needs. Efficiently and rapidly scale your deployment up or down by provisioning and deprovisioning VMs based on your business needs.
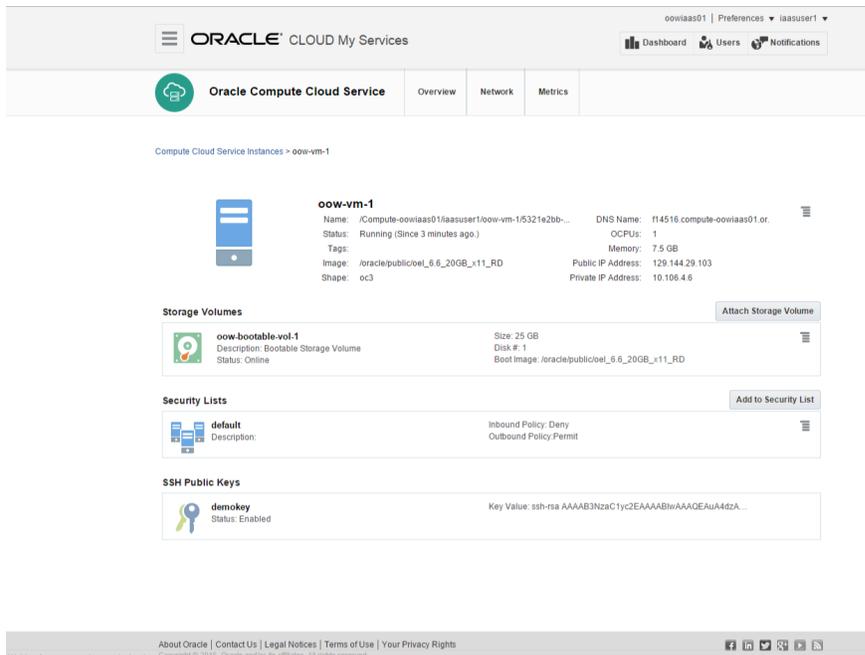

Image 1: Instance details, storage attached and security definitions.

- **Orchestrate your application.** You can launch a sequence of one or more VM instances and other system objects (storage volumes, networking, and so on) in an automatic manner, using a predefined, persistent JSON file. This file can contain elements such as shapes to be deployed for each VM, instance labels, security list membership, and DNS names.

```
{
  "description": "Simple oplan with an ssh key and a security list",
  "name": "/Compute—acme/admin/simple_orchestration",
  "oplans": [
    {
      "label": "simple_oplan",
      "obj_type": "launchplan",
      "objects": [
        {
          "instances": [
            {
              "imagelist": "/oracle/public/ol_6.6_20GB",
              "label": "OL_6.6_20GB",
              "networking": {
                "eth0": {
                  "seclists": [
                    "/Compute—acme/admin/my_instances"
                  ],
                  "nat": "ipreservation:/Compute—acme/admin/ip1"
                }
              },
              "shape": "oc3",
              "storage_attachments": [
```

Image 2: Creating an instance with an Orchestration JSON file.

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- **Recover active VM instances.** Your application orchestration monitors all objects defined within it, maintaining high availability. If there's a failure, then an automatic restart of the failed object on another computing node ensures that your application is successfully restored.

Flexible Configuration

Oracle Compute Cloud Service reduces the time required to obtain a virtual server to minutes, letting you rapidly scale up or down your deployment as dictated by changes in your business. You can launch instances with a variety of operating systems, manage your network permissions, and run your custom applications and workloads however you choose. You can select any configuration of CPU, memory, operating system, and so on, that are all optimized for your needs.

- **Manage the life cycle.** Oracle Compute Cloud Service provides advanced lifecycle management functionality. You can provision virtual machines using prepackaged images or build your own images, store data and applications in persistent block storage volumes, and use bootable storage volumes for OS-level persistence. Automate the provisioning and lifecycle operations of virtual computing topologies through your application orchestrations.

- **Use virtual networking.** You can connect to your environment through the Internet, accessing your Oracle Cloud resources from anywhere, or cross-connect over a private connection within a partner exchange.

- **Control anti-affinity and OCPU pinning.** You can control instance placement and distribute workloads using the Oracle Compute Cloud Service instance anti-affinity feature. You can also allocate Oracle CPUs to virtual machine instances, thereby avoiding oversubscription and deterioration in performance.

Secure Infrastructure

You have complete control over what's being done in your account. Security lists and security rules let you control inbound and outbound networking communication to and from your instances.

- **Control the security list.** You can use a distributed and flexible firewall that allows the isolation of groups of objects (for example, VM instances and storage volumes) so that only specifically permitted communications are enabled. This distributed firewall operates on a flat network without the need for hard network partitioning. It isn't restricted by location, and operates across the cloud (that is, regardless of nodes, racks, or sites).

- **Define the security rules.** You define the security rules that identify the permitted communication between security lists or between IP addresses; communication is either permitted or denied.

- **Connect site-to-site VPNs.** Connect on-premises resources to dedicated computing zones in Oracle Cloud.

Dedicated Computing

You can get a virtual computing environment provisioned on isolated computing resources. Your computing zones will be completely dedicated to your usage (no other tenants on the hardware), with complete network isolation. Securely connect to your environment in the cloud using the site-to-site VPN feature.

Oracle Compute Cloud Service: If you want dedicated computing that enjoys all the benefits

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of the cloud and experiences only the highest levels of security and reliable, predictable performance, but you want to avoid all those *noisy* tenants, then Oracle Compute Cloud Service is your solution.

Contact Us

For more information about Oracle Compute Cloud Service, visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

Oracle is committed to developing practices and products that help protect the environment

Hardware and Software, Engineered to Work Together

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ORACLE STORAGE CLOUD SERVICE

CLOUD STORAGE FOR ENTERPRISES

KEY FEATURES

- Store unlimited pieces of data

- Store, retrieve, and manage data through either RESTful Web Service API or Java client

- Access control to restrict data availability to specific users

- Hybrid storage tiers

- Track and monitor key storage metrics

KEY BENEFITS

- Scalable, redundant, highly available storage solution

- No up-front hardware expenditure or investment

- 24/7 access to data from anywhere over the Internet

Oracle Storage Cloud Service is a secure, scalable, reliable, and on-demand public cloud storage solution. Businesses can access additional storage capacity in minutes with zero hardware investment. The Oracle Storage Cloud Service can be accessed from anywhere, at anytime, and from any device connected to the Internet.

A Robust and Scalable Storage Solution

Oracle Storage Cloud Service provides a high performance, redundant, and highly available storage solution. Scalable and elastic by design, businesses using the Oracle Storage Cloud Service will guarantee that their storage resources will always match their storage needs.

- **Easy to use.** Oracle Storage Cloud Service provides an easy way to store, manage, and serve large amounts of digital content to customers over the Internet. Each piece of data is logically stored as an *Object. Objects* are grouped together and organized by *Containers.* In addition to storing binary data an *Object* can track metadata about itself for use-case specific purposes.

- **Access programmatically.** Oracle Storage Cloud Service provides a Java client and a RESTful Web Service for programmatically storing, accessing, and managing content. Using these tools developers can easily create or modify applications (whether on-premise or in the cloud) to fit their storage needs.

- **Hybrid tiers.** Choose the right storage tier for each use case. The *Oracle Storage Cloud Archive Service* enables clients to create containers for archive use cases, which provide specialized storage for applications and workloads that require long-term retention at the lowest price in the industry today.

- **Control access.** Service administrators can restrict access to data by assigning read and write permissions to *Containers*. Using the Java client, customers can transparently encrypt their data when stored and decrypt data when retrieved using RSA key pairs.

- **Built-in redundancy.** Whenever data is written to the Oracle Storage Cloud Service it is replicated across multiple storage nodes within the same data center. This replication strategy ensures that data is protected from hardware failures and data corruption.

- **Elastic capacity.** The elastic nature of the Oracle Storage Cloud Service allows businesses to buy only as much storage capacity as they need today. Businesses can purchase more storage capacity when they need it.

- **Central monitoring and management.** As part of the Oracle Cloud, the Oracle Storage Cloud Service can be monitored and managed through the central Oracle Cloud Customer Portal.

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