



# Oracle Cloud VMware Solution

## Empower Seamless Integration with Oracle Cloud VMware Solution

### Benefits

- Maintain complete administrative control over the VMware estates both on-premises and in the cloud.
- Migrate VMware-based workloads to Oracle Cloud Infrastructure quickly and seamlessly.
- Transfer applications without re-architecting or retooling.
- Easy integration with native Oracle Cloud services by enabling enterprises to unlock additional capabilities and functionalities.
- Agility, scalability, and cost-effectiveness
- Secure and back up data and workloads across any Oracle Cloud regions globally.

The adoption of cloud-native services and applications has revolutionized the dynamic between IT and the enterprise, bringing forth a multitude of benefits. By embracing cloud-native solutions, organizations can significantly transform their IT cost structures, leading to cost savings and optimized resource allocation. Furthermore, the cloud-native approach enables accelerated development of revenue-generating solutions, allowing businesses to seize opportunities swiftly and gain a competitive edge.

As a result of these advancements, today's IT teams have become highly efficient and effective drivers of enterprise business outcomes. They are empowered to align technology initiatives with strategic goals, unlocking innovation and growth potential. The cloud-native paradigm empowers IT professionals to focus on strategic initiatives rather than mundane infrastructure management tasks, enabling them to contribute more directly to the success of the organization.

However, adopting native cloud, or transitioning to a cloud-native architecture, comes with its own set of challenges:

**1. Infrastructure Considerations:** Organizations need to understand and select the appropriate cloud providers, manage scalability, and ensure high availability and fault tolerance of their applications.

**2. Security and Compliance:** Moving to the cloud introduces new security challenges. Organizations must ensure that their applications and data are properly secured, compliant with regulations, and protected against threats such as data breaches or unauthorized access.

**3. Cost Management:** While migrating to the cloud offers scalability and cost advantages, it also requires investing in upfront costs for refactoring and retooling.

**4. Integration and Interoperability:** Cloud environments often involve a mix of cloud services, third-party APIs, and legacy systems. Integrating these components and ensuring smooth interoperability can be challenging, requiring robust integration strategies and technologies.

**5. New hires and reskilling:** Organizations need to hire new staff to manage the applications in the cloud in order to keep up with the best practices and fully leverage the benefits of native cloud adoption.

## Why Oracle Cloud VMware Solution?

### Migrate VMware estate

Move VMware workloads to Oracle Cloud without having to modify them. Customers gain scale and agility while maintaining continuity with existing VMware-based tools, processes and policies.

### Global availability, high performance

Provide bare metal instances with at least 156 cores and scale capacity across more than 40 Oracle Cloud regions globally with uniform pricing.

### Ease of Operations

Rely on a single VMware specification that works both on premises and in the cloud. Avoid effort spent porting applications, refactoring code and resolving configuration differences.

### Used the same VMware Tools

Leverage your existing skill sets with the tools you're already using on-premises, including vSphere, vCenter Server, vSAN, NSX and HCX. Extend your tested and proven on-premises IT deployment architectures and processes.

### Dedicated environment with full control

Provide self-service provisioning with full administrative permissions including root access. Root access provides complete control over the entire hardware and software environment.

### VMware Cloud Verified

Run VMware Cloud Foundation on Oracle's next-generation cloud, while retaining full VMware administrative access and compatibility with VMware vCenter.

## Oracle Cloud VMware Solution overview

Oracle Cloud VMware Solution is a customer-managed, VMware Cloud™ based environment consisting of VMware vSphere®, VMware vSAN™, VMware NSX-T Data Center™ and VMware vCenter Server®. Customers have full control VMware environments while leveraging the capabilities of Oracle Cloud Infrastructure. Oracle Cloud VMware Solution provides bare metal compute, advanced L2 network and storage-rich infrastructure to deliver a full-fidelity VMware service for predictable application performance. Oracle Cloud VMware Solution is designed for dynamic, multi-cloud VMware environments.

With this reliable and fully integrated cloud infrastructure and operations platform, your enterprise can achieve faster application migration and modernization while seamlessly shifting workloads between on-premises environments and Oracle Cloud on a large scale. There's no need to redesign applications or adjust operations when moving or expanding VMware-based workloads. With the direct access to native cloud, your IT teams can easily utilize Oracle Cloud services, including Oracle Autonomous Database, Exadata Cloud, and Database Cloud, through a consistent portal access and updated APIs. The Oracle Cloud VMware solution prioritizes the cloud, offering agility, scalability, and cost-effectiveness. On-premises workloads now can be swiftly deployed to the Oracle Cloud within hours or days, rather than waiting months or even years.

Oracle Cloud VMware Solution includes VMware HCX, a hybrid cloud extension that functions as an application mobility platform plug-in across the Oracle Cloud and VMware environments. It further simplifies application migration, workload rebalancing and business continuity across multiple data centers and clouds.

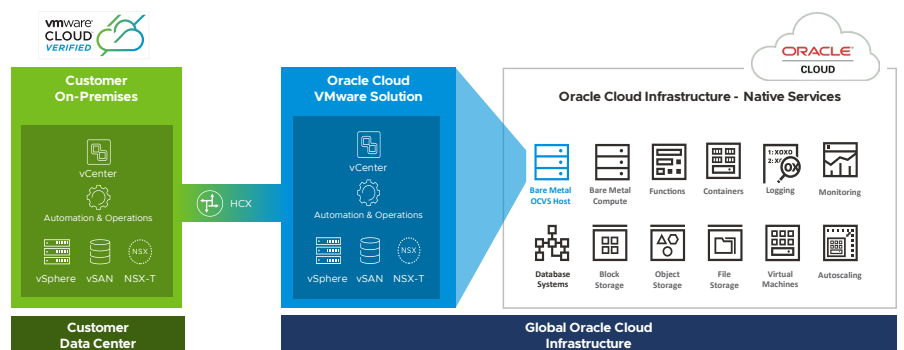


Figure 1: Oracle Cloud VMware Solution

**TIM Brasil, one of the largest telecommunications providers in Brazil with more than 61 million customers, chose Oracle Cloud VMware Solution to migrate their 100% workloads to the cloud.**

“Our proposal is to take the customer’s experience to a new level with more efficiency and agility, and always with the highest levels of security.”

Pietro Labriola  
CEO  
TIM Brazil

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## Increase cloud scale and capacity

Oracle Cloud VMware Solution empowers the enterprise to grow cloud-scale and capacity quickly and cost-efficiently by combining on-premises data centers with the Oracle Cloud Infrastructure. Workloads can be migrated across your VMware on-premises instances to the Oracle Cloud within minutes. Your operation maintains complete control over cloud access and tenancy, including the operating system and software version management. Now your enterprise can access its on-premises data centers and Oracle Cloud Services using the same applications, tools, processes and policies you use today with no changes. Powered by 3rd Gen Intel Xeon and AMD EPYC processors, Oracle Cloud VMware Solution standard shapes support a wide variety of extra-small to extra-large core configurations to right-size your VMware workloads.

## Modernize applications

Oracle Cloud VMware Solution allows enterprises to modernize applications across virtual cloud networks and adjacent Oracle Cloud Infrastructure services. Your IT teams have access to VMware-native tools to support containers, microservices, analytics creation and management across the entire on-premises and Oracle Cloud footprint. With deploying Tanzu Kubernetes Grid on Oracle Cloud VMware Solution, enterprises can accelerate application and infrastructure modernization by quickly adopting container and Kubernetes technologies on top of the hybrid cloud that provides flexible, scalable and resilient infrastructure that is optimal for running containerized modern workloads along with traditional VM-based workloads.

## Secure and protect workloads

Oracle Cloud VMware Solution inherits the robust security features and capabilities of Oracle Cloud Infrastructure (OCI) while providing specific enhancements for VMware-based workloads:

- 1. Network Security:** Oracle Cloud VMware Solution leverages the network security controls provided by OCI, including Virtual Cloud Networks (VCNs) and security lists. VCNs allow customers to define network topologies, control traffic flow, and enforce security rules.
- 2. Identity and Access Management (IAM):** Oracle Cloud VMware Solution integrates with the IAM capabilities of OCI, allowing customers to manage user identities, roles, and access privileges. It supports features such as multi-factor authentication (MFA), role-based access control (RBAC), and fine-grained access policies.
- 3. Data Encryption:** Oracle Cloud VMware Solution supports encryption mechanisms to protect data at rest and in transit. Data at rest within the VMware environment can be encrypted using industry-standard encryption algorithms.

**4. Security Monitoring and Analytics:** The Oracle Cloud Infrastructure Monitoring service allows customers to collect and analyze system and resource metrics, including security-related events. Customers can set up alarms and alerts based on predefined security thresholds.

**5. Compliance and Certifications:** Oracle Cloud VMware Solution is certified with various industry standards and regulations, including ISO 27001, SOC 1, SOC 2, HIPAA, and PCI DSS.

**6. Data Sovereignty and Privacy:** Oracle Cloud VMware Solution allows customers to choose the geographic region where their data resides, ensuring compliance with data sovereignty requirements.

## VMware Validated Solutions

### Site Recovery Manager

Oracle Cloud VMware Solution customers can now protect their workloads using Site Recovery Manager for Oracle Cloud VMware Solution. With this solution, it is possible to securely replicate data to the cloud and utilize cloud infrastructure for disaster recovery operations. Site Recovery Manager for Oracle Cloud VMware Solution supports the flexibility and streamlined scaling of Oracle Cloud VMware Solution with the automation and orchestration of Site Recovery Manager. Organizations are always looking for ways to reduce costs and overhead, and Site Recovery Manager on Oracle Cloud VMware Solution enables that by eliminating the requirement for a dedicated DR site.

### VMware Aria

VMware Aria, the intelligent hybrid cloud management solution, is now available on Oracle Cloud VMware Solution. VMware Aria empowers customers to consistently deploy and operate your applications, infrastructure and platform services from on-premises data center to the Oracle Cloud. Customers can accelerate innovation with quick and easy access to services, optimize performance by improving visibility and automation, and improve control of your environment while mitigating risks through unified operations and governance across on-premises data centers and native public clouds.

### VMware Horizon

VMware Horizon® on Oracle Cloud VMware Solution delivers a full-stack

## Learn more

- Learn more about Oracle Cloud VMware Solution on our [website](#).
- Get the [TCO Infographic](#), [Solution Brief for Cloud Migration](#), and [Break Down Cloud Migration with Oracle Cloud VMware Solution Infographic](#).
- Read our latest [Oracle Cloud VMware Solution blogs](#).
- Watch the demos, webinars and hear from our customers on our [YouTube channel](#).
- Visit our Oracle Cloud VMware Solution [Tech Zone page](#) and try the [Hands-on Lab](#).
- Follow us on [Twitter](#), [LinkedIn](#) and [Facebook](#).

software-defined data center (SDDC), including VMware vCenter®, vSphere ESXi™, NSX® and vSAN, delivered as a service on Oracle Cloud Infrastructure. Customers can scale up or down the resources in Oracle Cloud Infrastructure or in their data center depending on the need of their workloads while using the same VMware tools that they know. It comes with built in end-to-end security with isolated customer tenancy and leverages the existing hardened VMware security policies, process and tools in both on-premises and in the native cloud. With Horizon's Cloud Pod Architecture in the hybrid cloud setting, customers can meet use cases such as disaster recovery, business continuity and burst capacity.

## VMware Tanzu Kubernetes Grid

VMware Tanzu Kubernetes Grid on Oracle Cloud VMware Solution helps simplify Kubernetes adoption and management with industry-leading VMware Software-Defined Data Center (SDDC) technologies and Oracle Cloud high performance infrastructure and networking. With this solution, enterprises can deploy a consistent Kubernetes distribution across environments — on-premises on vSphere and VMware Cloud Foundation, on Oracle Cloud VMware Solution — and manage all the clusters consistently via a single control plane. Customers will maintain the established processes, automation, and policy around VMware infrastructure by migrating to Oracle Cloud VMware Solution. Customers have administrative control over the underlying VMware infrastructure, on which your Kubernetes workloads are running, and manage with a single point of governance.