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# Move and modernize VMware estates to Oracle Cloud VMware Solution (OCVS)



# Your challenge

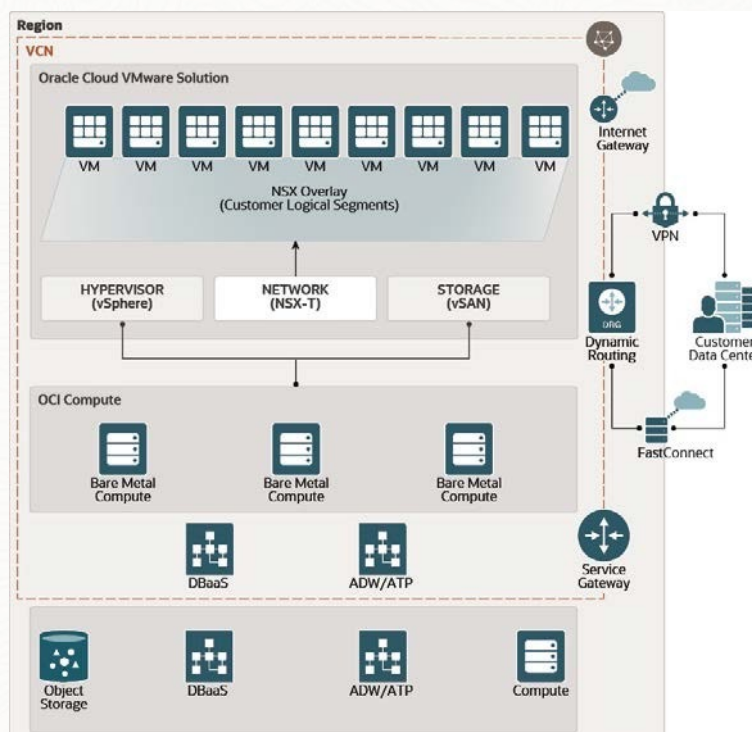
Enterprises are under pressure to modernize their existing VMware workloads and extend application capabilities. They want to include modern cloud functionalities and take advantage of the benefits of public cloud: elastic capacity, lowered costs, and improved flexibility. Changes to these types of platforms typically require alterations in systems and application architecture, unplanned updates to operating systems and databases, and changes to operational practices—all of which adds to risk and cost.

Challenges for cloud adoption include:

- Incompatible, non-interoperable stacks in application dependency mapping and migration planning, which accounts for complex application infrastructure architectures
- Cross-site networking and security issues, which can impede cloud platform adoption
- Application dependency mapping delay—for example, applications depend on systems that are not readily available for other cloud providers
- Business disruptions that require maintaining a secure, off-premises “active” infrastructure, resulting in potential capacity or resource loss

# Our solution

Oracle Cloud VMware Solution (OCVS) enables customers to move VMware workloads to Oracle Cloud **with little to no application rearchitecture**. Customers gain flexibility, scale, and agility while maintaining continuity from existing VMware-based tools, processes, and policies. Customers have full administrative control of their VMware environments, while leveraging Oracle Cloud Native services to modernize applications.



## Oracle Cloud VMware Solution benefits



Better scalability, agility, and flexibility



Migrate VMware estates as-is & as-a-whole



Access to OCI Cloud Native Services



Customers retain full administrative control



1440x faster provisioning for environments



Core-to-edge protection with built-in security



Entel expands using VMware apps running in Oracle Cloud, cuts costs by 50%

“Oracle Cloud VMware Solution offers the exact same VMware experience as the on premises data center and full access to Oracle Cloud services.

This is a fast and cost effective way to migrate our VMware environment to the cloud. Performance has increased dramatically, and downtime is close to zero.”

Helder Branco  
Chief Technology Officer, Entel



# Oracle Cloud VM ware Solution Overview



## VMware Software Includes

vSphere ESXi 7.0, 6.7, 6.5

vCenter 7.0, 6.7, 6.5

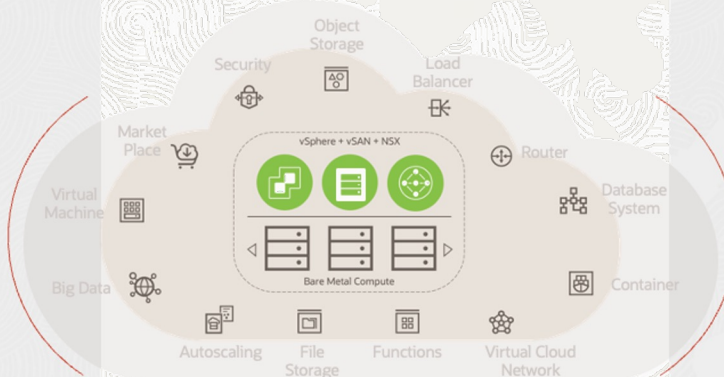
vSAN 7.0, 6.7, 6.5

NSX-T 3.1.2

HCX Advanced

### Note

HCX Enterprise can be subscribed as add-on with monthly-based charge.



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Cloud Infrastructure

## Bare Metal Server Each Includes

Intel Skylake	AMD 3 <sup>rd</sup> Gen EPYC
52 Cores	32/63/128 Cores
768 GB RAM	2 TB RAM
51.2 TB <u>NVMe</u>	54.4 TB <u>NVMe</u>
50 Gbps Network	100 Gbps Network

### Note

(1) Min 3 hosts, Max 64 hosts per Cluster.

(2) Run inside your Virtual Cloud Network with Layer 2 networking support in order to provide the best VMware services.

## Migrating VMware workloads to the cloud

There are many ways to migrate your on-premises VMware workloads to Oracle Cloud VMware Solution, including online and offline migration.

Migrating workloads to a public cloud is challenging because of the incompatibilities between on-premises and cloud infrastructure environments. Oracle Cloud VMware Solution overcomes these challenges by building an abstraction layer on top of existing site-specific implementations of Oracle Cloud Infrastructure using VMware HCX. HCX is an application mobility platform that simplifies application migration, workload rebalancing, and business continuity across data centers and clouds.

Key benefits of HCX include network extension and cross-cloud connectivity for live migration of production workloads. HCX eliminates disruption to the business entities that depend on mission-critical applications running in their on-premises VMware environment.

## VMware use cases

The Oracle Cloud VMware Solution enables organizations that have a significant investment in VMware infrastructure to take advantage of the benefits of public cloud: elastic capacity, accelerated operational and business velocity, and lowered and planned infrastructure costs.

### Data center migration

Move workloads from on-premises to Oracle Cloud VMware Solution as part of a broader effort to consolidate or decommission data center operations.

View the [VMware migration solutions playbook](#)

### Disaster recovery

Gain resiliency for business continuity and disaster recovery with vSphere by bridging and existing infrastructure to an alternate site on Oracle Cloud.

View the [disaster recovery solution playbook](#)

### Hybrid Cloud with native VMware tools

Increase flexibility of your hybrid cloud by using familiar management and migration tools such as vCenter, ESXi, vSAN, and vMotion.

View the [hybrid cloud solution playbook](#)

### Virtual Desktop Infrastructure

With VMware Horizon on Oracle Cloud VMware Solution, you can easily manage any virtual desktop environment or application

View the [VMware Horizon playbook](#)





# Solution features

## 1. Run native VMware workloads

Oracle Cloud VMware Solution allows customers to 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.

## 2. VMware Cloud Verified

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

## 3. Full control of dedicated environments

Oracle Cloud VMware Solution provides customers self-service provisioning with full administrative permissions including root access. Root access provides complete control over the entire hardware and software environment.

## 4. Use the same VMware tools

VMware-based applications running on premises can be managed the same way on Oracle Cloud—using a single, integrated view. 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. Configure your cloud environment to match on-premises and keep them in-sync.

Leverage your existing skill sets with the tools you're already using on-premises, including vSphere, vCenter Server, vSAN, NSX, and HCX.

## 5. Avoid costly operational changes

Rely on a single VMware specification that works both on-premises and in the cloud. Avoid effort spent rearchitecting applications, refactoring code, or resolving configuration differences. Rely on native VMware tools and leverage existing skillsets.

## 6. Leverage adjacent Oracle Cloud services

Modernize parts or all of your application stacks with native access to Container Engine for Kubernetes and Oracle Functions. Increase service levels and reduce overhead with a broad array of cloud databases such as Oracle Exadata, Autonomous Data Warehouse, Autonomous Transaction Processing, Oracle NoSQL Database, and more.

## 7. High-performance, elastic, and verified

Oracle Cloud VMware Solution's bare metal compute instances provide customers with at least 156 cores, the highest CPU core count available for any VMware-based solution in the market today. Gain elastic capacity and scale large VMware deployments.

# Oracle Cloud VMware Solution differentiators



**Customer control:** OCVS is customer-managed and controlled



**Security:** Customer owns root credentials



**Updates, patches, and upgrades:** Customer controls when (and if) to upgrade



**Deployment:** OCVS is deployed in the customer's Virtual Cloud Network (VCN)



**Availability:** OCI is globally available in 40+ regions

## OCI partner ecosystem

accenture

Deloitte.

actifio

COMMVAULT 

rackware 

veeam

Zerto





## TIM Brasil Selects Oracle and Microsoft to Migrate All of its Datacenter Workloads to the Cloud

"Using a multicloud strategy, we are the first carrier in Brazil to move 100% of our workloads to the cloud. It includes moving our customer billing system, our CRM, and VMware to Oracle Cloud Infrastructure. Oracle has been a fantastic partner in our technology evolution."

Pietro Labriola  
CEO, TIM Brasil



## Rumo Runs Brazilian Railroad Operations on Oracle Cloud

"We were able to rapidly migrate mission-critical applications from our data centers to Oracle Cloud VMware Solution with no changes to applications, databases, and middleware. Higher performance, stability, management, and access have resulted in IT productivity and business agility with lower costs than alternative solutions."

Christofer Faccin  
IT Manager, Rumo Malha Norte

## Solution differentiation

	OCI	AWS	AZURE	GCP
Offering name	Oracle Cloud VMware Solution	VMware Cloud on AWS	Azure VMware Solution	Google Cloud VMware Engine
Components	NSX-T, vSphere, vSAN, vCenter, HCX	NSX-T, vSphere, vSAN, vCenter, HCX	NSX-T, vSphere, vSAN, vCenter, HCX	NSX-T, vSphere, vSAN, vCenter, HCX
Customer control	Customer-managed and controlled	Managed services by AWS and VMware	Managed services by Microsoft	Managed services by Google
Security	Customer owns root credentials without any Oracle access	Vendor retains root credentials	Vendor retains root credentials	Vendor retains root credentials
Updates, patches, and upgrades	Customer controls when (and if) to upgrade	Vendor controls and decides	Vendor controls and decides	Vendor retains root credentials
Deployment	Deployed in the customer VCN	Co-located outside of AWS VPC	Co-located outside of Azure VNET	Co-located outside of GCP VPN
Availability (as of April 2021)	All (40+) OCI regions and DR C@C	17 AWS regions	10 Azure regions	11 GCP regions
Support	Oracle	VMware and AWS	Microsoft	Google





## Resources and migration partners



### Learn more about the solution

- [Oracle Cloud VMware Solution Page](#)
- [Oracle Cloud Infrastructure Solution Page](#)
- [OCI Customer Successes](#)
- [Oracle Cloud Lift Services](#)
- [Oracle Support Rewards](#)
- [Oracle Cloud Infrastructure Platform Overview](#)
- [Top 10 Reasons to Adopt Oracle Cloud](#)
- [Oracle Cloud Economics](#)
- [Oracle Cloud vs. AWS](#)



### OCI Solutions and Services Webpages

- [Migrate On-Premises Oracle Applications to \(OCI\)](#)
- [Migrate Custom Apps to OCI](#)
- [Migrate VMware workloads](#)
- [Oracle Bare Metal Servers](#)
- [Oracle Cloud Native Services](#)
- [HPC on OCI](#)



### OCI Video Series + Virtual Summits

- [Built and deployed on OCI video series](#)
- [Oracle Cloud Platform Virtual Summit](#)
- [Oracle Live Labs](#)
- [Hello virtual workshop](#)
- [Oracle Live Webpage](#)



### Technical Resources

- [Oracle Cloud Infrastructure Architecture Center](#)
- [Oracle VMware solutions playbook](#)
- [Oracle Developer Tools](#)
- [Technical Whitepapers](#)
- [Oracle Cloud Adoption Framework Webpage](#)
- [Oracle PartnerNetwork](#)



### Industry Reports

- [Gartner Report: It's time to include Oracle as a viable option when evaluating public cloud providers](#)
- [IDC Spotlight Report: Oracle Cloud Infrastructure for Heterogenous Workloads](#)
- [Omdia Cloud Report: Matching the workload characteristics to the cloud's capabilities](#)
- [Omdia Report - Cloud Platform: Why all clouds are not the same](#)
- [Oracle Cloud VMware Solution at VM world 2020](#)
- [Oracle Cloud VMware Solution's killer advantage](#)
- [Comparison of VMware Cloud options](#)



### Training resources

- [Oracle University](#)
- [OCI Certification Paths](#)
- [Oracle Learning Explorer](#)

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