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VMware on Oracle Cloud Infrastructure

ORACLE Cloud Infrastructure vmware CLOUD VERIFIED

The challenge

Enterprises are under pressure to modernize their existing VMware workloads and extend application portfolios. They want to include new cloud functionalities and take advantage of the benefits of public cloud: elastic capacity, accelerated operational and business velocity, as well as clear and planned infrastructure costs. Changes to these types of platforms typically require alterations in systems and application architecture, unplanned updates to operating systems and databases, and changes to long standing operational practices—all of which adds to risk and cost.

Challenges for cloud adoption include:

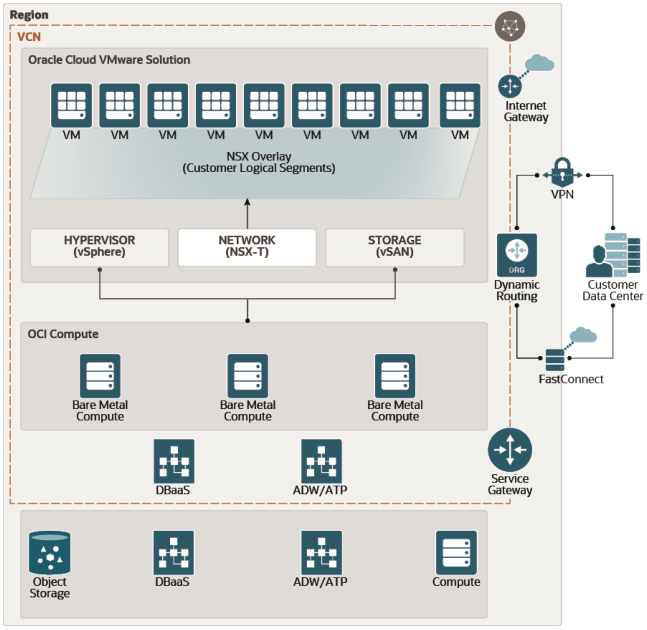
- Incompatible, non-interoperable stacks in application dependency mapping and migration planning, which accounts for complex application infrastructure architectures
- Cross-site networking and security issues, which can impede adoption of a cloud platform
- Application dependency mapping delay—for 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

"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

The solution

Oracle Cloud VMware Solution (OCVS) enables customers to move VMware workloads to Oracle Cloud **without modification**. Customers gain scale and agility while maintaining continuity from existing VMware-based tools, processes, and policies. Customers have full control of their VMware environments, while leveraging the capabilities of Oracle Cloud Infrastructure.



OCVS highlights

- High availability
- High performance
- Scalability
- Full integration
- Lift and shift
- Layer 2 networking

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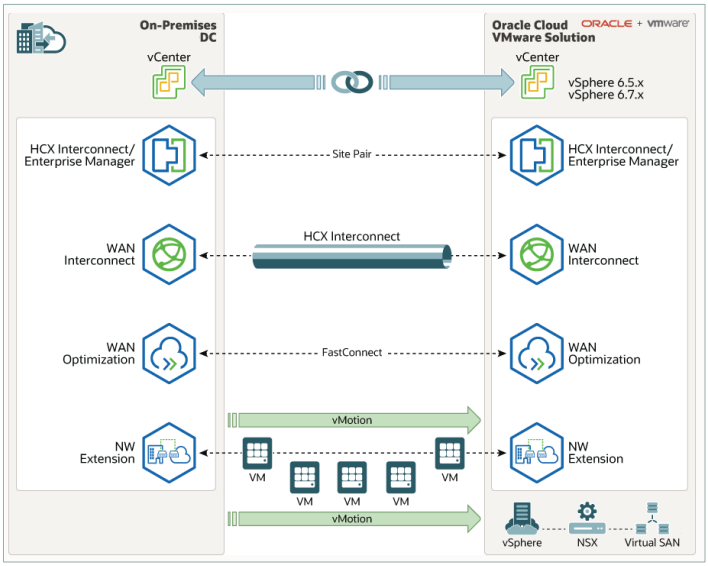
Migrating VMware workloads to the cloud

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.



Solution features

Migrate VMware estate

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.

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.

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:** All (20+) regions and Dedicated Region Cloud@Customer

OCI partner ecosystem

accenture
Deloitte.
actifio
COMMVAULT
Rackware
VEEAM
Zerto

Resources

- Connect with Oracle: oracle.com/contact
- Learn more: oracle.com/cloud/vmware
- Oracle blog: Oracle Cloud VMware Solution at VMworld 2020
- CIO.com: Oracle Cloud VMware Solution's killer advantage
- The CTO Advisor: Comparison of VMware Cloud options
- Gartner Report: It's time to include Oracle as a viable option when evaluating public cloud providers

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Dedicated environment with full control

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.

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.

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, or resolving configuration differences.

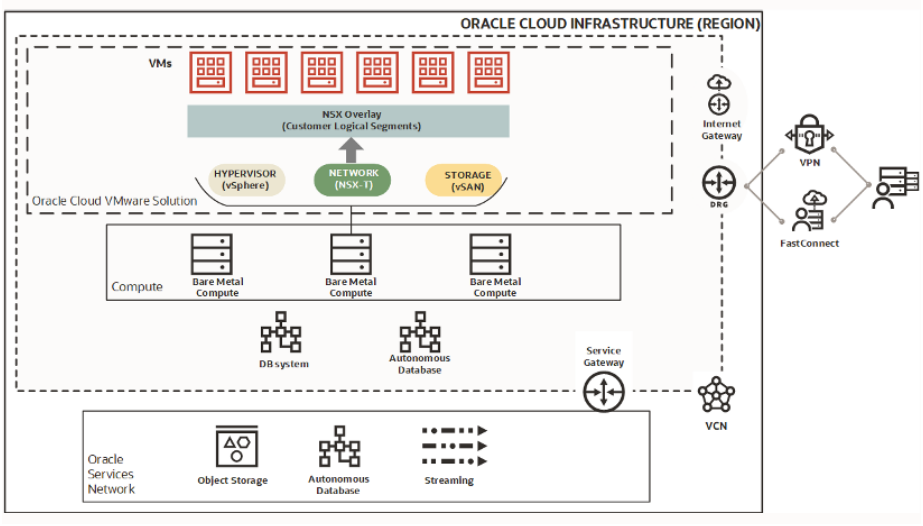
Leverage adjacent Oracle Cloud services

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.

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.

Oracle Cloud VMware Solution architecture



VMware Use Cases

Data center migration

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

View the VMware migration solutions 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

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

Leverage VMware on-premises

Deploy the solution on-premises using a dedicated cloud region and leverage investments on IT infrastructure such as Exadata

Explore Oracle Dedicated Region Cloud@Customer

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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	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 (20+) OCI regions and DR C@C	17 AWS regions	10 Azure regions	11 GCP regions
Support	Oracle	VMware and AWS	Microsoft	Google

Ready to get started?

- Connect with us and tell us more about your VMware needs
- Read our Oracle VMware solutions playbook
- Try Oracle Cloud free tier

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