Multi-cloud strategy brings flexibility, choice, and cost-performance optimization by mixing and matching a range of infrastructure options: private cloud, public cloud, and on-premises. It enables organizations to have a range of cloud resources spanning across Amazon Web Services (AWS) and Microsoft® Azure public cloud, containers, and on-premises VMware vSphere® and KVM-based environments.

However, as new management tools are introduced to manage more than one cloud environment, day-to-day operations become more complex. This complexity results in requirements to provide not only a multi-cloud management solution that can manage different infrastructure deployments and services, but also ubiquitous role-based access for team members across the organization.

Build, operate, and manage hybrid clouds with ease

HPE OneSphere is a software-as-a-service (SaaS)-based multi-cloud management solution. Through a unified view in HPE OneSphere, internal stakeholders (IT operations, developers, business executives) can compose hybrid clouds capable of supporting both traditional and cloud-native applications.

The simplified deployment and management features of HPE OneSphere provide a cloud-like experience with on-premises infrastructure. It further allows organizations to integrate AWS and Microsoft Azure public clouds as well as onboard existing VMware vSphere and KVM virtual data centers as cloud resource providers. It also allows provisioning of enterprise grade Kubernetes clusters on AWS.
HPE OneSphere features

Customer-specific SaaS control plane
- Provides every customer with a unique SaaS portal for multi-cloud management
- Provides operations management and updates
- Provides ease of access and availability as a hosted service

Public and private cloud deployment support
- Integrates with existing VMware vSphere and KVM deployments for private cloud support
- Supports SUSE Enterprise Ceph storage with KVM (Tech. Preview)
- Advanced integration with HPE Synergy composable infrastructure
- Integrates with AWS and Microsoft Azure public cloud
- Allows access via SaaS web portal as well as through APIs (HPE OneSphere REST API)
- Allows customers to use OpenStack® APIs for VM vending and volume management on VMware® environment
- Allows provisioning of Kubernetes clusters on AWS

Resource utilization and cost analytics
- Collects, tags, and displays usage metrics for deployed resources
- Deploys resources with customer-provided metadata tags
- Provides month-to-date and previous month usage costs for both private and public cloud providers
- Provides customizable default private cloud cost rates
- Provides access control at user and group levels for viewing usage and cost data
- Assists in AWS compliance checks by providing results and further connecting customers to HPE CTP services

Accelerate application delivery and cost visibility across clouds

HPE OneSphere simplifies self-service provisioning of cloud resources across on-premises, private cloud, and public cloud for developers through service catalogs. HPE OneSphere provides an application catalog service by integrating different catalog services from private and public clouds. It allows importing of pre-existing operating system images and/or application images hosted on private or public cloud. Developers can optionally use HPE OneSphere REST API or the native cloud provider API and existing orchestration tools to deploy cloud resources. HPE OneSphere also provides detailed cost analytics to track, categorize, and report on cloud costs across multiple clouds. It gives the ability to view month-to-date and previous month resource cost information for both public and private cloud resource usage. On the private cloud side, it helps customers to define their own fixed cost model, which in turn can become the baseline for their internal chargeback.

Better collaborative environment through projects in HPE OneSphere

HPE OneSphere uses the concept of projects, an abstract grouping of members or users that is used to control access to cloud services and compute resources. A project can also be identified by the set of resources that is assigned to a group of members. They define a logical boundary for the users to operate within. It also helps IT teams to manage access permissions for a set of users by grouping them under a project. HPE OneSphere can further provide detailed usage information pertaining to one or more projects.

“Businesses need a true Hybrid IT platform making it possible to develop and deploy workloads where they best fit based on business needs. HPE’s strategy for HPE OneSphere is to deliver a turnkey platform for building, operating, and optimizing a Hybrid IT estate. It’s a promising vision that—when mature—should allow customers to seamlessly compose and simply operate workloads across on-premises, private, and public clouds.”

– Peter Burris, GM and Chief Research Officer, WIKIBON

Flexible pricing

Hewlett Packard Enterprise helps customers to align cost and demand through its subscription-based pricing for HPE OneSphere. And for the composable infrastructure, HPE provides a flexible, pay-as-you-go pricing.

Proven HPE Pointnext consulting for accelerated results

To accelerate time to value for HPE OneSphere, HPE Pointnext provides a high-level priority road map outlining key Hybrid IT business goals and next steps. Finally, a portfolio of options is available for enhanced call handling and expert support to provide the reliability, serviceability, and near-continuous availability of the multi-cloud environment.

Learn more at hpe.com/onesphere

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