VMware vSphere+

Delivering benefits of the cloud to on-premises workloads

At a glance

Challenge:

While IT organizations are embracing cloud and software-as-a-service (SaaS), many enterprises chose to run many of their workloads on-premises. The challenges are:

• Cloud benefits are inaccessible to on-premises workloads

• Infrastructure silos and multiple operating models fragment the organization and make ongoing visibility, management, and maintenance time consuming and challenging

• Developers and IT spend a lot of time on infrastructure operations instead of app development increasing time to market

Solution:

VMware vSphere+ is the multi-cloud workload platform that brings the benefits of cloud to on-premises workloads. vSphere+ combines industry-leading virtualization technology, an enterprise-ready Kubernetes environment, and high-value cloud services to create SaaS-enabled infrastructure, available as a subscription. With vSphere+, IT admins and developers can easily build, run, manage, protect, and secure their traditional and next-gen applications.

VMware vSphere+™ is the multi-cloud workload platform that delivers high-value cloud services for IT admins and developers to centralize management, supercharge productivity and accelerate innovation for traditional and next-gen applications.

With VMware vSphere+, organizations can:

• Supercharge productivity with admin services. Via the Cloud Console, admins can centrally manage and monitor global inventory, alert status, and security posture and provision VMs to any vSphere cluster to quickly meet needs. Entire vCenter lifecycle management is simplified, making it easy to detect and remediate configuration drift.

• Transform on-premises infrastructure with cloud integration to give them all the benefits of the cloud, while enhancing existing vSphere deployments in place. Organizations can activate add-on services that expedite disaster recovery, ransomware protection, cloud bursting, capacity planning, and more (in development), and gain the flexibility of OpEx-based consumption, while improving ROI from existing investments.

• Accelerate innovation with developer services that transform existing virtual infrastructure into an enterprise-grade Kubernetes platform. This streamlines platform management with integrated logging, registry, monitoring, ingress, and other services, and allows multiple Kubernetes clusters to be managed with observability, troubleshooting, and resiliency (in development).
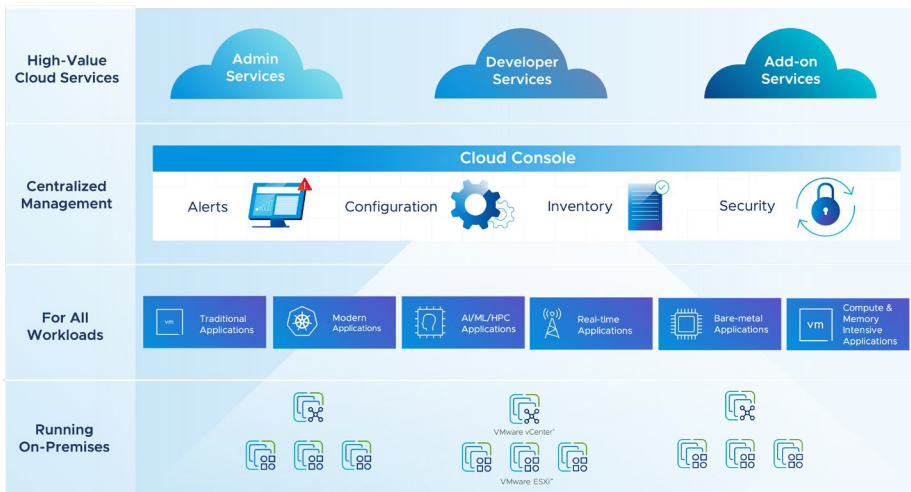

Figure 1: VMware vSphere+ delivers benefits of the cloud to on-premises workloads

vmware®

Key features and capabilities

Flexible subscription

- Purchase vSphere+ as a subscription for better budget management by shifting from a CapEx to OpEx consumption model. Reduce large up-front costs. Single SKU includes all components (vCenter instances, ESXi hosts), and Support.

- Separate vCenter license purchases and entitlement tracking is no longer required. Deploy as many instances of vCenter as you need for no additional cost. No need to manage a multitude of licenses.

- Keyless entitlement, metering, and billing eliminates the hassle of recording, tracking, splitting, and entering license keys.

Admin services

- **Cloud Console:** Consolidate management of all vSphere deployments through a centralized cloud console (VMware Cloud Console).

- **Global inventory service:** Visualize your inventory of vSphere resources and capacity to quickly understand your resource utilization across your vSphere estate.

- **Event view service:** Get a consolidated view of events and alerts to quickly triage areas that need attention across your vSphere estate.

- **Security health check service:** Evaluate the security posture of your entire vSphere infrastructure to identify security weaknesses or exposures.

- **Provision VM service:** Quickly provision VMs from the VMware Cloud Console within any managed cluster.

- **Lifecycle management service:** Simplify the lifecycle management of your vCenter instances - make updates with a single click and reduce the maintenance window so it's easier to schedule updates sooner. This gives you more rapid access to new features and address security vulnerabilities quickly. If there is a problem, you can easily roll back the update.

- **Configuration management service:** Standardize and cascade vCenter configurations across your vSphere estate to quickly detect and remediate vCenter configuration drift.

Developer services

- **Tanzu Kubernetes Grid™ service:** allows developers to manage consistent, compliant, and conformant Kubernetes clusters.

- **Storage service:** allows developers to manage persistent disks for use with containers, Kubernetes, and virtual machines. Deploy existing block and file storage infrastructure for containerized workloads.

- **Network service:** allows developers to manage virtual routers, load balancers and firewall rules. Leverage existing networking infrastructure using vSphere Distributed Switch's (VDS) centralized interface to configure, monitor and administer switching access for VMs and Kubernetes workloads.

- **Tanzu integrated services:** streamline the deployment and management of local and in-cluster platform services, like logging, monitoring, networking, and storage services, to easily configure and maintain a production-ready Kubernetes environment.

- **Tanzu Mission Control™ Essentials:** enable developers to manage multiple Kubernetes (TKG) clusters with observability, troubleshooting, and resiliency.[1]

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1. Tanzu Mission Control Essentials is a component of vSphere+ and is expected to be available in Q3FY23