VMware Cloud Foundation with VMware Tanzu™ is a Hybrid Cloud Platform that includes an embedded Kubernetes runtime environment that accelerates development of modern applications. VMware Cloud Foundation with Tanzu automates infrastructure deployment and lifecycle management of complex Kubernetes clusters alongside mission critical enterprise applications. Now available with integrated container orchestration and VMware Tanzu™ management tools, VMware Cloud Foundation with Tanzu provides a comprehensive developer environment that bridges the gap between app developers and IT administrators. VMware Cloud Foundation can be deployed on-premises through a broad range of vSAN ReadyNode™ servers or consumed as a service from a number of public cloud providers, including VMware Cloud on AWS, Azure VMware Solutions, Google Cloud Platform VMware Solutions and many VMware Cloud Provider Partners. In addition, it can be consumed as part of VMware Cloud Universal with VMware Cloud Foundation Subscription, which is an on-premises term-based subscription offering that delivers a flexible, cost-effective and agile consumption model for deploying on-premises infrastructure for traditional and modern applications.

Streamlining management to increase admin productivity
VMware Cloud Foundation with Tanzu provides Virtual Infrastructure (VI) admins with unified visibility of virtual machines (VMs), containers, and Kubernetes clusters all within vCenter Server. Containers and Kubernetes are managed alongside VMs from a vCenter perspective and full observability via Prometheus/Grafana. The Kubernetes concept of a namespace is integrated into vSphere and becomes a unit of management, grouping
VMware Cloud Foundation can be consumed in five ways:

- **vSAN ReadyNodes**: Cloud Foundation software can be deployed on any vSAN ReadyNode and networking switches of your choice; to learn more, visit [VMware Compatibility Guide](#).
- **Composable Systems**: Rack mounted composable systems provide the flexibility of on-demand hardware integrated with VMware Cloud Foundation through Dell PowerEdge MX and HPE Synergy.
- **Jointly Engineered Systems**: VMware Cloud Foundation software can be delivered as a jointly-engineered, integrated system via Dell EMC VxRail.
- **As a Service from the Public Cloud**: VMware Cloud on AWS, Azure VMware Solution, Google Cloud VMware Solution, Oracle Cloud VMware Solution or from any VMware Cloud Providers including IBM Cloud, Rackspace, Fujitsu K5, CenturyLink, OVH, NTT and more.
- **VMware Cloud Foundation Subscription**: As part of VMware Cloud Universal, VMware Cloud Foundation Subscription delivers a flexible, cost-effective and agile consumption model for deploying on-premises infrastructure for traditional and modern applications.

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resource objects such as VMs and containers into logical namespaces to simplify management of large-scale deployments, resulting in a massive increase in scale and reduction in an admin’s cognitive load.

Because VMware Cloud Foundation delivers automated lifecycle management through SDDC Manager, available updates for all underlying components are validated for interoperability to consistently determine proper installation order and to maintain compliance with best practices and compatibility matrices. The updates can also be scheduled for automatic installation on a per-cluster or workload domain basis to maximize flexibility without impacting system availability. This allows the infrastructure admin to target specific workloads or environments (development vs. test vs. production) to execute updates independently and maximize productivity.

**Boosting developer productivity via self-service APIs**
In order to keep continuous development pipelines running at peak efficiencies, it’s critical to ensure that developers have frictionless access to the application code, infrastructure services, runtime environments, system tools, libraries and registries. Through the innovations introduced with VMware Cloud Foundation and Tanzu, resources are available through a set of VMware Cloud Foundation Services that are surfaced via Kubernetes and RESTful APIs as shown in Figure 2 below.

**FIGURE 2: VMware Cloud Foundation Services Architecture**

VMware Cloud Foundation Services consist of an upstream compliant Kubernetes runtime via [Tanzu Kubernetes Grid Services](#) combined with a set of [Infrastructure](#) and [Automation Services](#) that provide frictionless access to the resources needed to support non-stop continuous integration and continuous delivery (CI/CD) pipelines to foster healthy DevOps ecosystems. By managing resources at the namespace level through vCenter Server, admins can define security policies, quota, and role-based access to a namespace, always maintaining compliance with corporate mandates.

VMware Cloud Foundation with Tanzu enables developers to consume cloud resources such as Kubernetes clusters, disks and networks using familiar Kubernetes CLI and API tools, while the admins can manage systems at scale through vCenter Server. Because Cloud Foundation automates infrastructure provisioning and scaling, developers can focus on building and deploying apps while infrastructure teams become more strategic, maintaining centralized visibility and control of their global infrastructure and operations.

Take the next step and learn more at [vmware.com/go/cloudfoundation](http://vmware.com/go/cloudfoundation)