

Modernize your application infrastructure with containers and Kubernetes

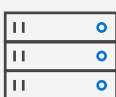
Build, deploy, and manage modern applications with APEX Hybrid Cloud.

The next evolution of application architectures

Applications are the lifeblood of the modern enterprise. Organizations need the flexibility to run their applications in the manner that best aligns with their business requirements. Virtualization fundamentally shifted the way that this flexibility was achieved, and virtualized infrastructure quickly became a standard feature of enterprise data centers. Now, we are witnessing the next evolution in application architectures as organizations embrace cloud-native architectures and containerized workloads orchestrated by Kubernetes.

As IT leaders embrace this new paradigm, it's important for them to chart out a strategy that provides an orderly transition to this new model that enables the preservation of existing application investments while adopting new technologies in an incremental fashion. Modern applications will rely on a co-existence of virtualized and containerized applications. Below are a few considerations for a successful IT strategy for adoption of modern applications.

The evolution of IT architectures



Traditional



Infrastructure-as-a-Service (IaaS)



Containers-as-a-Service (CaaS)

Key requirements for organizations deploying or developing modern applications



Run both traditional and cloud-native applications

Embrace open-source Kubernetes container orchestration leveraging the same infrastructure and tools you already use. Your VMware administrator can now provision and manage Kubernetes clusters.



Automate, persist, protect

A consistent hybrid cloud reduces manual tasks by automating stand-up and lifecycle management of virtualized and containerized infrastructure. The importance of modern applications requires enterprise-grade storage and data protection.



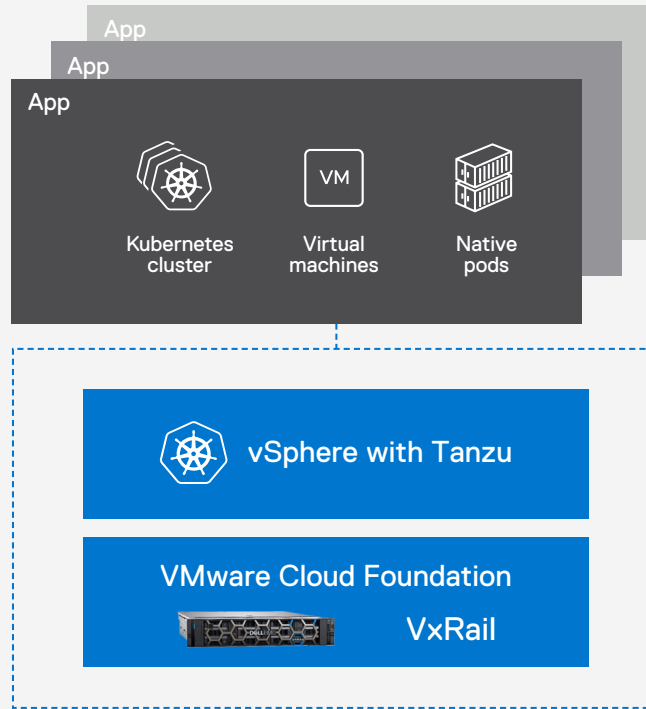
Public and private cloud need to work together

Application requirements should drive workload placement. You need to have consistent infrastructure and consistent operations across private and public cloud so that the same VM or container can be deployed in the right cloud with a common set of tools.

Start your VMware Tanzu® journey

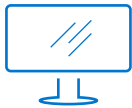
Provide a production-ready Kubernetes environment. APEX Hybrid Cloud enables you to automate the deployment of modern application infrastructure with VMware Tanzu. Accelerate development time of cloud-native applications with a consistent infrastructure operations model across your Kubernetes deployments. With support for both traditional and cloud-native applications on the same platform, you can now capitalize on the next evolution in enterprise applications.

Adding Tanzu Standard Edition delivers the best way to run Kubernetes workloads at scale while benefiting from automatic deployment and configuration of the entire SDDC infrastructure stack (VMware vSphere™, vSAN™, and NSX™) using SDDC Manager.



Delivering self service for DevOps

- Create independence for DevOps and ITOps and streamline your development pipelines to support agile development and modernized app infrastructure.
- Reduce management complexity by enabling self-service provisioning and management of their own resources in a VMware vSphere with Tanzu environment by maintaining a unified resource pool and consistent governance framework.



Learn more about modern applications and Dell Technologies Tanzu Advantage

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