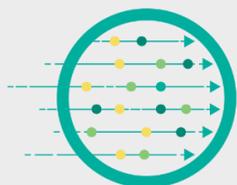


VMWARE TANZU ARCHITECTURE FOR DELL EMC VXRAIL

Purpose-built, validated, tested designs for cloud-native workloads with PaaS and CaaS services

Tanzu Architecture for VxRail



Speed

Deploy new code thousands of times a month



Stability + Scalability

Deliver enterprise SLAs and breakthrough operational efficiency



Security

Improve your security posture with built-in capabilities

As organizations accelerate adoption of multi-cloud strategies, they need to simplify the way they build their clouds, so they can focus on building out differentiated applications and services.

Tanzu Architecture for VxRail (TA4V) is a tested, validated reference architecture on which to deploy a highly available enterprise-grade developer platform. Built on hyper-converged VxRail, TA4V delivers automated lifecycle management of the infrastructure, a critical element in accelerating your transformation into a digital business.

- Tanzu Application Service (TAS) and Tanzu Kubernetes Grid Integrated (TKGI) reference architectures on VxRail
- Fully software defined infrastructure
- “Always on” highly available configurations
- A central management console
- Modular design that scales with Enterprises
- Integrated backup & disaster recovery options



Tanzu Architecture for VxRail

A tested and validated reference architecture for a variety of highly available deployments

- A private cloud and infrastructure service with simplified deployment
- A highly available platform to develop and quickly deploy applications, reducing the time to application delivery
- A modern developer platform that boosts developer productivity by combining application services, service discovery, container management, and orchestration with an ecosystem of plug-ins for developer tools
- Increased cloud solution portability and agility, because you are not locked into public cloud APIs
- External S3-compatible storage or an internal Web Distributed Authoring and Versioning (WebDAV) server for the Tanzu Application Service (TAS) blobstore

Tanzu Application Service

Tanzu Application Service (PAS) is based on Pivotal Cloud Foundry, which is an open source cloud application platform, providing a choice of clouds, developer frameworks, and application services. Cloud Foundry makes it faster and easier to build, test, deploy, and scale applications.

- Best runtime for Spring and Spring Boot
- Turnkey microservices operations and security
- A native Windows and .NET experience
- Fully integrated with continuous integration/continuous delivery (CI/CD)

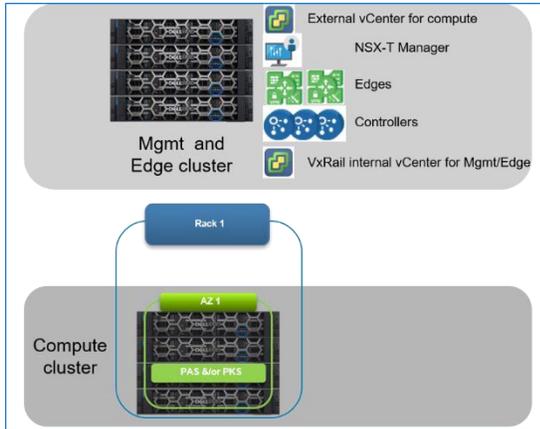
Tanzu Kubernetes Grid Integrated (TKGI)

TKGI is an enterprise-grade distribution that applies tightly packaged technologies like BOSH, NSX, and Harbor to speed deployment and simplify operations. It is simple to deploy and operate, ensuring a frictionless.

TKGI allows application teams to self-serve provision Kubernetes clusters that are fully managed on their behalf, allowing them to focus on the workloads that serve their consumers rather than the substrate needed to run those workloads.

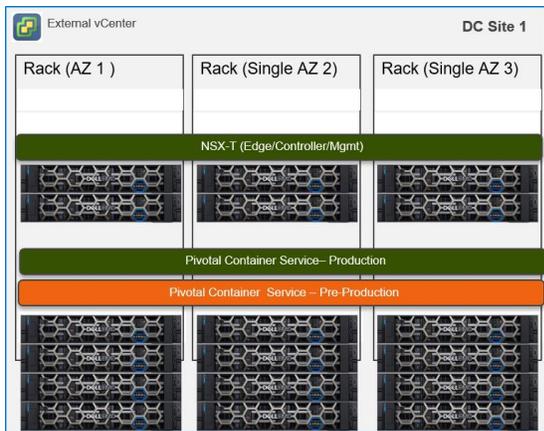
- Built with open-source Kubernetes: Constant compatibility with the current stable release of Kubernetes
- Production-ready: Highly available, built-in health checks, scaling, auto-healing and rolling upgrades.
- BOSH provides a reliable and consistent operational experience. For any cloud.
- Network management and security: Out-of-the-box with VMware NSX-T

Deployment Options



Dev/Test/ROBO: Single-AZ: NSX-T

- Need dedicated 4 node for NSX-T for ROBO and single AZ scenarios
- Can share it for TAS and TKGI
- 4 VxRail Node Min Configuration for AZ1



Production: Single Site with Multi-AZ: NSX-T

- NSX-T needs dedicated hardware resources to support all the capabilities.
- Size appropriately based on performance considerations: Minimum 6 nodes is commended for Edge/Controller/Mgmt.



[Learn more](#) about VMware Tanzu Architecture on Dell EMC VxRail



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