PIVOTAL CLOUD FOUNDRY ON VXRAIL™ APPLIANCES
Reference Architecture

AT A GLANCE
The VMware reference architecture for Pivotal Cloud Foundry on VxRail is a prescriptive and pre-tested blueprint designed for fast deployment, ease of scale, and simple operation of Pivotal Cloud Foundry infrastructure.

This reference architecture allows customers to deploy and operate the Pivotal Cloud Foundry platform on a choice of VxRail models and configurations, addressing different capacity and performance needs.

KEY BENEFITS
- Size VxRail for the number of Application Instances you need and choose the VxRail model that best fits your configuration needs
- Leverage existing investment in VMware infrastructure
- Easily deploy PCF Ops Manager, CF Elastic Runtime tiles and CF Runtime from the vSphere environment
- Integrate with VMware vRealize suite for enhanced automation, operations & management
- Use VMware Code Stream and Log Insight for CI/CD and log analytics
- Achieve faster network provisioning, security, protection and availability with VMware NSX

ACCELERATING SOFTWARE DEVELOPMENT WITH PUSH-BUTTON SIMPLICITY
The digital transformation is powering a deep shift in platforms and processes aimed at driving continuous delivery of software. Developers increasingly work in agile teams and demand a platform that allows them to continuously deliver updates and to horizontally scale their applications with no downtime. They seek standardized ways to plug in leading data services and perform deep user analytics on top of massive datasets to drive rapid iteration based on customer needs. These changes and disruptive technologies are forcing companies to evolve how they develop and bring products to market.

Pivotal Cloud Foundry is the leading enterprise cloud native developer platform for achieving the modern, software driven organization. Purpose built for continuous delivery and horizontal scale, Pivotal Cloud Foundry allows developers to focus on the application as the unit of deployment and scale. It delivers a turnkey experience for scaling and updating applications with no downtime. Pivotal Cloud Foundry enables developers to provision and bind web and mobile apps with leading application development services, such as MySQL, Rabbit, Redis, MongoDB, on a unified platform. It empowers businesses to deliver applications continuously with new features at a velocity and scale previously only available to Internet giants, allowing enterprises to innovate with disruptive speed.

VMware is teaming up with Pivotal to enable customers to quickly deploy a modern application development platform into their environment while leveraging their existing and proven investment in VMware infrastructure.

SEAMLESS AND PROVEN INFRASTRUCTURE
IT organizations are increasingly turning toward hyper-converged infrastructure solutions to simplify and speed up infrastructure deployments, ease day-to-day operational management, reduce costs, and increase IT speed and agility. The VxRail™ Appliance is the only fully integrated, preconfigured, and tested HCI appliance jointly developed by Dell EMC and VMware. With the power of a whole Storage Area Network (SAN) in just two rack units, VxRail provides a simple, cost effective hyper-converged solution that delivers compute, network, storage, virtualization as a single turnkey appliance.
Pivotal Cloud Foundry on VxRail is a simple, scalable and agile cloud native solution, with enhanced security and automation. With VxRail, Pivotal customers can achieve:

**Rapid Time to Value with greater agility and security**

Fast out-of-box set up and easily increases capacity and performance using a scale out infrastructure architecture. Increase application-level security and lower networking costs.

**Infrastructure on demand with predictable cost and performance**

Use the infrastructure you need when you need it. You can buy for specific projects and seamlessly integrate with existing data center, improving alignment between project owners and IT administrators. And centralized infrastructure resource management, provisioning and performance evaluation provides you with a real-time pulse on your data center.

**Mission critical data services for ultimate efficiency**

Advanced services, such as deduplication, compression and erasure coding, data protection and disaster recovery, and scalable cloud-based storage are included in your appliance purchase providing a reliable foundational infrastructure to run the PCF platform.

**PIVOTAL CLOUD FOUNDRY ON VXRAIL APPLIANCES REFERENCE ARCHITECTURE**

The reference architecture for Pivotal Cloud Foundry on VxRail Appliances facilitates integration with the VMware Software Defined Data Center products and eco-system for management and reporting, day-to-day operations, cloud services and improved network security and agility. It also facilitates integration with third party developer ecosystem tools.

**FOR MORE INFORMATION**

Pivotal Cloud Foundry: [https://pivotal.io/resources/1/datasheets](https://pivotal.io/resources/1/datasheets)
Dell EMC VxRail: [www.dellemc.com/vxrail](http://www.dellemc.com/vxrail)
Pivotal Academy training: [https://pivotal.litmos.com/account/login/](https://pivotal.litmos.com/account/login/)

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