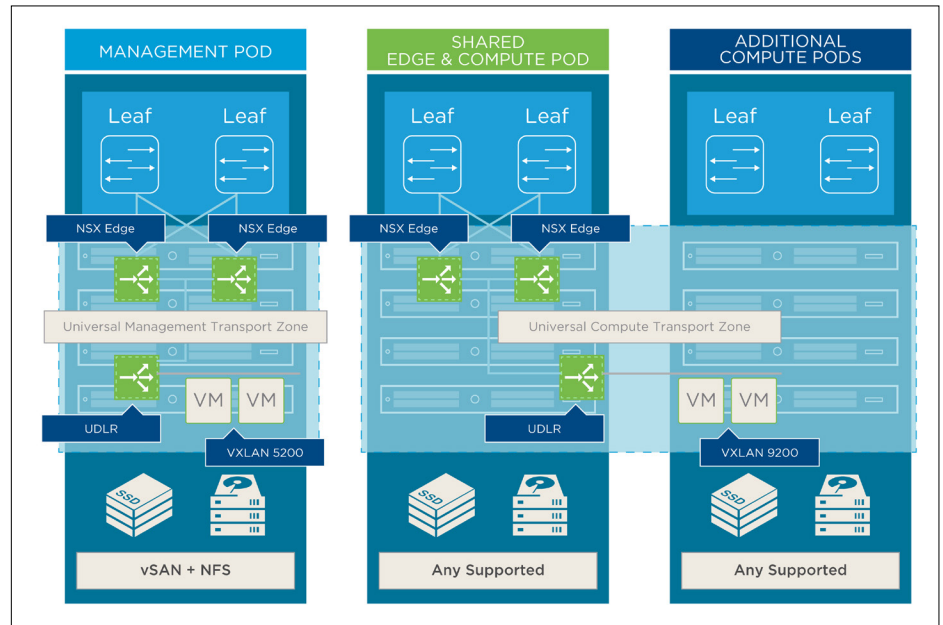


VMWARE VALIDATED DESIGNS



VMware Validated Design Pod Architecture

AT A GLANCE

The VMware Validated Designs provide comprehensive and extensively-tested blueprints to build and operate a Software-Defined Data Center (SDDC).

With the VMware Validated Designs, VMware delivers holistic data center-level designs for IT organizations that choose a “build your own” approach to adopting the SDDC using VMware software.

KEY BENEFITS

- Accelerate Time to Market - streamline and simplify the usually complex design process of the SDDC
- Increase Efficiency - use detailed, step-by-step guidance to greatly reduce time and effort spent on operational tasks
- De-risk Deployments and Operations - reduce uncertainty and potential risks associated with implementing and operating the SDDC
- Drive IT Agility - through scalability and support for a broad set of use-cases and diverse types of applications

What is a VMware Validated Design?

A VMware Validated Design is composed of a standardized, scalable architecture backed by VMware’s technical expertise and a software Bill of Materials comprehensively tested for integration and interoperability that spans across compute, storage, networking and management. Detailed guidance that synthesizes best practices on how to deploy, integrate and operate the SDDC is provided to aid end-users ensure performance, availability, security and operational efficiency.

Use Cases

Take a modular approach to deploying VMware software that is consistent and expandable to the complete SDDC.

- **VMware Validated Design for Software-Defined Data Center** - Defines a complete SDDC architecture, enabling IT outcomes such as app security, IT automation, monitoring and alerting, high availability and disaster recovery.
- **VMware Validated Design for Micro-Segmentation** - A subset of the complete SDDC architecture, it enables micro-segmentation using VMware NSX® distributed firewalls and security groups to secure workloads. Expansion to the SDDC is supported.
- **VMware Validated Design for IT Automation** - Complements the SDDC architecture with implementation steps and procedures for IT automation scenarios, such as integrating vRealize Automation, creating multi-tier application patterns and NSX micro-segmentation for multi-tier applications.

HOW TO IMPLEMENT

Customers can implement VMware Validated Designs in three different ways:

- VMware Professional Services – Purchase a VMware Validated Design for SDDC Deploy Service available from VMware Professional Services. [Learn more](#)
- Certified Partner Architecture – Work with a VMware Partner that offers advanced solutions based on the VMware Validated Designs. [Learn more](#)
- “Build Your Own” – Implement the VMware Validated Designs with in-house skillsets by following the public documentation available for free on vmware.com/go/vvd-docs

LEARN MORE

Visit www.vmware.com/go/vvd to learn more about the different ways to implement the VMware Validated Designs.

FOR MORE INFORMATION OR TO PURCHASE VMWARE PRODUCTS

CALL 877-4-VMWARE (outside North America, +1-650 -427-5000)

Key Features

Standardized, Data Center-level Designs

Standardized, scalable architectures comprehensively tested for integration and interoperability among all the software components in the bill of materials.

Proven and Robust Designs

Continuous rigorous interoperability testing validates successful deployment, efficient operations and ensures designs stay valid with subsequent versions of components.

Applicable to a Broad Set of Use Cases

A variety of use case-based architectures – SDDC, Micro-segmentation, IT Automating IT – complemented with guidance to achieve a IT outcomes delivered by the SDDC.

Comprehensive Documentation

Comprehensive set of documents that describe design objectives, architecture design decisions, a software bill of materials, and extensive documentation on how to deploy, integrate and operate the SDDC in a single or dual-region environment.

Technical Implementation

VMware Validated Designs are implemented on a collection of common building blocks, referred to as pods. Each pod represents the logical grouping of hardware and software needed to support specific functions within the SDDC.

- **Management Pod** – It hosts the infrastructure components used to instantiate, manage, and monitor the SDDC, such as Platform Services Controllers, VMware vCenter Server® Instances, NSX Managers, and vRealize® Log Insight™. Cloud management and operations capabilities can be extended with additional solutions (e.g., vRealize Automation™). VMware vSAN™ is used for hosting the virtual machines running in this cluster, while NFS is used for storing backup images, log, archives and virtual machine templates.
- **Shared Edge and Compute Pod** – It provides north-south networking access for initial business and end-user workloads. It is typically located inside the same rack as the management pod, although in larger environments it may be installed in a dedicated rack.
- **Additional Compute Pods** – As an organization grows, additional compute only pods are added to expand the SDDC capacity.

While VMware vSAN is used in the management pod, any supported VMware vSphere® storage may be used in the shared edge and compute pod, and any additional compute-only pods.

