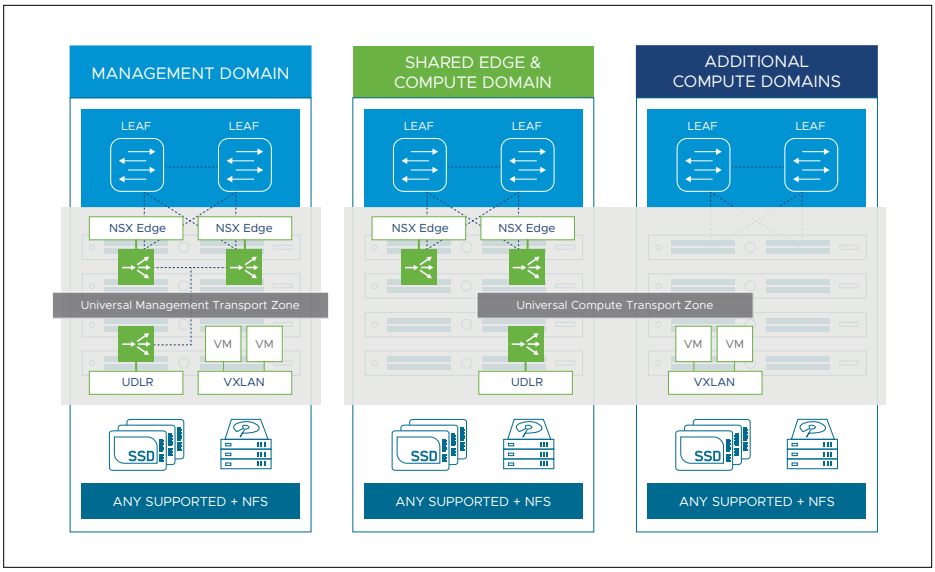
VMWARE VALIDATED DESIGNS



VMware Validated Design Workload Domain Architecture

AT A GLANCE

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

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, shortening deployment and provisioning cycles
- Increase Efficiency – provide 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 – Designed for scalability and to support a broad set of use cases and diverse types of applications, helping IT to respond faster to the needs of the business

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 synthetizes 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 NSX distributed firewalls and security groups to secure workloads. Expansion to the SDDC is supported.
- VMware Validated Design for IT Automation IT – 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)

- VMware Validated Design for Intelligent Operations – Enables proactive monitoring procedures to IT operations team based on VMware best practices
- VMware Validated Design for Remote Office and Branch Office – Extends the standard implementation to include remote locations that require fewer resources, enabling you to centrally manage deployments that are spread out geographically

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, Intelligent Operations, ROBO – complemented with guidance to achieve 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 workload domains. Each workload domain represents the logical grouping of hardware and software needed to support specific functions within the SDDC.

- Management workload domain – It hosts the infrastructure components used to instantiate, manage, and monitor the SDDC, such as Platform Services Controllers, 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 recommended for hosting virtual machines running in this cluster, while NFS is used for storing backup images, log, archives and virtual machine templates.
- Shared Edge and Compute Workload Domain – It provides north-south networking access for initial business and end-user workloads. It is typically located inside the same rack as the management domain, although in larger environments it may be installed in a dedicated rack.
- Additional Compute Workload Domains – As an organization grows, additional compute only workload domains are added to expand the SDDC capacity.

While VMware vSAN is recommended in the management workload domain, any supported vSphere storage may be used in the shared edge and compute workload domain, and any additional compute-only workload domains.

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