

VMware Cloud Activation Essentials

For Azure VMware Solution

AT A GLANCE

VMware Cloud Activation Essentials for Azure VMware Solution accelerates creation of your first Azure VMware Solution SDDC. This service includes a solutions overview, review of your first SDDC, deployment and pairing of VMware HCX components and the successful migration of your first virtual machine.

KEY BENEFITS

- Rapidly Instantiate a VMware Cloud SDDC
- Quickly deploy and validate a mobility platform
- Free IT staff to work on business-critical activities
- Minimize disruption to existing resources and operations
- Learn how to perform additional migrations through knowledge transfer

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Service overview

VMware Cloud Activation™ Essentials for Azure VMware® Solution provides rapid creation of your first Azure VMware Solution SDDC and deployment of VMware HCX® product components with successful testing of virtual machines migration capability from your on-premises environment to Azure VMware Solution. To ensure your team is fully enabled to perform additional workload migrations, this service also includes a knowledge transfer workshop that provides an overview of the VMware application migration methodology, best practices, and information resources.

The following activities are included in this service:

- Validation of requirements and creation of your first VMware SDDC in Azure
- Deployment of HCX on-premises components and pairing with VMware SDDC in Azure
- Validation of the ability to migrate VMs between on-premises and the SDDC in Azure
- A VMware Migration Methodology knowledge transfer session

This service requires the following VMware on-premises and VMware SaaS products, with vendor-supported versions as agreed to by VMware and Customer at project kickoff, but limited to those that are in general availability (GA):

- Azure VMware Solution (2.0 or later)
- Azure ExpressRoute
- VMware HCX (on-premises requires vSphere 6.0 or higher) (*)

(*) Note 1: please check the VMware Requirements and Product interoperability matrix links in the Appendix

Service Delivery Description

Service activities will be entirely delivered remotely by VMware Professional Services. Due to the nature of some on-premises components and security aspects we require Customer to join virtual sessions and engage their infrastructure, network and security teams when appropriate to execute required actions (i.e., firewall port configurations or appliance deployments) under VMware Team supervision. The delivery team will also require validating the proper configurations and requirements are in place before proceeding with the remote installation.

Service Capabilities

This service contributes to the full development of the following capabilities:

- Provide a VMware SDDC in Microsoft Azure
- Ability to migrate VMs from on-premises to Azure VMware Solution

Project scope

The scope of the service is defined in the following tables.

VMWARE SDDC IN AZURE VMWARE SOLUTION		
SPECIFICATION	PARAMETERS	DESCRIPTION
Review Azure VMware Solution SDDC requirements and validate user accounts		Review and validation of Azure VMware Solution requirements
Create an Azure VMware Solution SDDC	Up to one (1)	Execute the deployment of the planned VMware Cloud SDDC through the Azure Cloud portal
Configure gateway firewall Rules	Up to five (5)	Configure NSX™ firewall rules for the workload to be migrated within the Azure VMware Solution SDDC

VMWARE HCX		
SPECIFICATION	PARAMETERS	DESCRIPTION
Azure VMware Solution VMware vCenter® Instances	Up to one (1)	Azure VMware Solution SDDC VMware vCenter instance where to pair VMware HCX
On-Premises VMware vCenter Instance(s)	Up to one (1)	On-premises VMware vCenter instance where to deploy VMware HCX for pairing
On-premises Layer 2 networks extended	Up to one (1)	On-premises Layer 2 networks to extend with VMware HCX
Additional VMware HCX Activities		Review of the on-premises VMware HCX integration (plug-in) with VMware vCenter and standalone interfaces, verification of migration capabilities

Out of scope

The following are out of scope items for this project.

General

- Installation and configuration of custom or third-party applications and operating systems on deployed virtual machines
- Operating system administration including the operating system itself or any operating system features or components
- Management of change to virtual machines, operating systems, custom or third-party applications, databases, and administration of general network changes within Customer control

- Remediation work associated with any problems resulting from the content, completeness, accuracy, and consistency of any data, materials, or information supplied by Customer
- Installation or configuration of VMware products not included in the scope of this document
- Installation and configuration of third-party software or other technical services that are not applicable to VMware components
- Installation and configuration of Customer-signed certificates
- Configuration of VMware products used for the service other than those implemented for the mutually agreed-to use cases
- Customer solution training other than the defined knowledge transfer session

Azure VMware Solution

- Creation of user roles and groups
- Creation of local accounts
- Configuration of LDAP/Active Directory sources
- vCenter Content library creation, OS images creation/Copy/Sync
- Creation of Networking segments, VPNs, and additional firewall rules not included in the specific service scope
- Azure ExpressRoute configuration and troubleshooting
- Connectivity between on-premises and Azure VMware Solution using Azure ExpressRoute
- Design or configuration of interconnectivity between different SDDCs or other native cloud services

VMware HCX

- Creation of additional network extensions or stretched networks
- Deployment of additional target or source endpoints
- Deployment and configuration of Enterprise features like OSAM, MON, RAV or Mobility Groups

Estimated Schedule

VMware estimates that the duration of this project will not exceed 1 week. VMware Professional Services will operate according to a schedule agreed to by both parties. Typically, professional services are performed during normal business hours and workdays (weekdays and non-holidays).

Project Activities

Phase 1: Initiate

VMware hosts a project initiation call with key Customer and VMware stakeholders.

Topics to be discussed include:

- Project business drivers, scope, and objectives
- Project deadlines, timelines, scheduling, and logistics
- Identification of key Customer team members who VMware will work with to accomplish the tasks defined in this project

- Technology prerequisites necessary for a successful project, including review of the Service Checklist for the VMware solution
- Confirmation of team members and contact details will be exchanged to schedule the project kickoff meeting

Deliverables include:

- Initial pre-engagement call

Phase 2: Plan

VMware leads a project kickoff meeting with Customer to assess prerequisite completion readiness, review the VMware standard architecture, and confirm project milestone dates.

The objectives of the meeting are as follows:

- Introducing the VMware team, roles, and responsibilities
- Describing the project goals, phases, and key dates
- Explaining the expected project results and deliverables
- Agreeing on communication and reporting process
- Validating the project expectations and clarifying roles and responsibilities

After Customer and VMware agree on project expectations, the VMware Project Manager and the Customer Project Manager work together on the detailed project plan.

Deliverables include:

- Project kickoff meeting minutes
- Azure VMware Solution Cloud activation kickoff presentation

Phase 3: Execute

The key activities for this phase are organized into Deploy and Knowledge Transfer subphases.

In the Deploy subphase VMware deploys, documents, and validates the technology components according to the specifics. VMware does the following:

- Installs and configures the VMware technologies according to the specifics
- Finalizes the Configuration Workbook
- Executes service and service component functional test validation

In the Knowledge Transfer subphase, VMware conducts knowledge transfer sessions covering the design, deployment procedures, and operations procedures relating to the technologies in the scope of this project. VMware does the following:

- Conducts technical knowledge transfer sessions for administrators and operators
- Conducts up to 4 hours of knowledge transfer sessions, including fundamental operational discussions

Phase 4: Close

VMware conducts a closure meeting of up to 2 hours with the Customer covering project status, reviewing completions, next steps and how to engage with VMware support.

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This service must be delivered and accepted within the first 12 months of purchase, or the service will be forfeited. Pricing for this service excludes travel and other expenses. For detailed pricing, contact your local VMware representative.

Appendix

The Azure VMware Solution SDDCs should have been already created and activated together with VMware HCX in the Microsoft Azure Cloud side.

The following Customer stakeholders are required to deliver this service:

- VMware operations team leads
- Application operations leads
- Security policy team leads
- Enterprise Architect
- Infrastructure Architect
- Network Operations team leads
- Network Architecture team leads

The following are the technical prerequisites to deliver this service:

- VMware vCenter Server version 6.0 or higher for on-premises HCX Components
- Virtual machines must be running hardware version 9 or higher
- 3+ on-prem IP addresses from management network for HCX service installation
- Virtual machines must have VMware tools installed
- Virtual machines must reside in a service cluster (defined in the compute profile)
- Each Virtual machine overall allocated disk size should not exceed more than 250 GB
- Distributed vSwitch for networks that need to be extended
- The availability of the NTP service is critical to system operations.
- Migration potential throughput can vary depending on bandwidth available for migrations, latency, available CPU/MEM/IOPS, and disk read speed. For successful switchover phase, the bandwidth and network conditions must be sufficient to satisfy the operation considering the dataset and virtual machine data change rate. For more information about how to determine bandwidth requirements, see [Bandwidth Requirements for vSphere Replication](#)

Please verify product requirements with the following:

- [VMware Products interoperability matrix for HCX](#)
- [System Requirements for HCX](#)
- [Software Version Requirements for HCX](#)
- [Azure VMware solution documentation](#)

