

# VMware Cloud Activation Standard

## AT A GLANCE

VMware Cloud Activation Standard accelerates cloud migration to a modern vSphere-based Infrastructure. This service includes guided activation of your target cloud platform, a solutions overview, creation of your first SDDC, deployment and pairing of VMware HCX components including L2 extension and the successful completion of a bulk migration for 15 low-complexity virtual machine in a single wave.

## KEY BENEFITS

- Quickly start your cloud migration
- Rapid Instantiation of a VMware Cloud SDDC
- Expedited deployment of HCX
- L2 stretch of one network segment
- The completion of a bulk migration for 15 low complexity virtual machine.
- Guided workshop on workload migration best practices and methodology

## Service overview

VMware Cloud Activation™ Standard provides a rapid Instantiation of a software defined data center (SDDC) on VMware Cloud® and expedites the deployment of the VMware Hybrid Cloud Extension (HCX®) product components and migrate in a single wave up to 15VMs. This service includes the L2 extension of a single network segment from your on-premise environment to VMware Cloud. To ensure your team is fully enabled to perform additional workload migrations, this service also includes a VMware Migration Hub knowledge transfer session, which provides an overview of the VMware application migration methodology, best practices, and Information resources.

The following activities are included in this service:

- Instantiation of a VMware Cloud SDDC environment
- Deployment of HCX and related on-premise environment to VMware Cloud site pairing
- L2 Extension of a network segment using HCX built-in capabilities
- The bulk migration of 15 low complexity virtual machine in a single wave
- A VMware Migration Hub 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):

- VMware Cloud on AWS
- VMware HCX
- VMware vSphere® 5.5U2 or higher (for on-premises components)

## Service Delivery Description

Service activities will be entirely delivered remotely by the 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:

- Create an SDDC on a VMware Cloud platform
- Enable the application migration and workload mobility platform
- Network stretching with no need to change IP or network topology

### IT Outcomes delivered

This service may contribute to the delivery of the following IT outcomes:

- Reduces the burden of infrastructure management and controls shadow IT
- Enables organizations to leverage existing skills, tools, and processes

### Project Scope

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

VMWARE CLOUD SDDC		
SPECIFICATION	PARAMETERS	DESCRIPTION
Review VMware Cloud SDDC requirements and validate user accounts		Review SDDC deployment requirements and validate that the cloud user accounts are ready to begin SDDC deployments
Create VMware Cloud SDDC	Up to one (1)	Execute the deployment of the planned VMware Cloud SDDC through the VMware Cloud portal
Configure IPSec VPN access to selected SDDC	Up to one (1)	Configure route-based or policy-based IPSec VPN connections between VMware Cloud and on-premises data centers
Configure gateway firewall Rules	Up to five (5)	Configure gateway firewall rules for workloads within the VMware Cloud SDDC

VMWARE HCX		
SPECIFICATION	PARAMETERS	DESCRIPTION
VMware Cloud vCenter Instances	Up to one (1)	VMware Cloud vCenter instance where to activate VMware HCX
On-Premises vCenter Instances	Up to one (1)	On-premises 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 vCenter plug-in and standalone interfaces, the migration of a single non-production virtual machine using VMware HCX.

WORKLOAD MIGRATION		
SPECIFICATION	PARAMETERS	DESCRIPTION
Virtual Machines Included in Migration	Up to one fifteen (15)	This is the total number of Virtual Machines in scope for this migration effort. These will be included into one (1) migration wave.
Configure Migration Waves	Up to one (1)	Configure workload migrations in HCX with proper resource selections for the target site. This includes monitoring and management of workload replication to ensure synchronization prior to the migration wave.
Run Migration Waves	Up to one (1)	During the scheduled migration window, the VMware Consultant will operate the HCX console to ensure a secure and seamless migration process. This includes facilitating failback if necessary.
Additional Activities		Review of the exists list of workloads planned for migration to the new SDDC.

### 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

#### VMware Cloud

- Creation of user roles and groups
- Creation of local accounts
- Configuration of LDAP/Active Directory sources
- Creation of Networking segments, VPNs, and additional firewall rules not required by the specific service scope
- Design or configuration of interconnectivity between different SDDCs or other native cloud services

#### VMware HCX

- Deployment of additional target or source endpoints
- Deployment and configuration of Enterprise features like OSAM, MON, RAV or Mobility Groups
- Bandwidth available and size of VMs will affect the time to replicate; the group of VMs that doesn't fit in an up to two (2) days of replication time will not be included.

#### Workload Migration

- Pre and Post Application validation
- Backup/Restore of Virtual Machines
- Multi-instances databases and/or part of database Clusters will not be migrated
- No Specific application dependency will be analyzed
- Virtual machines with Raw Device Mappings (RDM) in Physical Compatibility mode cannot be bulk migrated.
- Virtual machines with SCSI bus sharing cannot be migrated.
- NSX Security tags and configurations related to the virtual machine will not be migrated. vSphere tags will be migrated
- Virtual machine (with) Snapshots cannot be migrated. HCX bulk migration allow to remove the snapshot.

#### Estimated Schedule

VMware estimates that the duration of this project will not exceed 3 weeks. 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 data sheet
- 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

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### 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
- VMware Cloud activation kickoff presentation
- Workload list of VMs to be migrated

#### 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 1 migration wave (15VMs) 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 eight (8) 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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**Appendix – Service Checklist**

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 5.5 or higher
- Virtual Machines must be running Hardware version 9 or higher
- Virtual machines must have VMware Tools installed
- Virtual machines must reside in a Service Cluster (defined in the compute Profile)
- Bulk 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](#)
- 3+ on-prem IP addresses from management network for HCX service installation

On-premises hardware requirements are shown in the following table:

ON-PREMISES HARDWARE REQUIREMENTS			
APPLIANCE	VCPU	MEMORY	DISK SPACE/IOPS
HCX Manager	4	12 GB	60 GB
HCX-IX	8	3 GB	2 GB
HCX-NE	8	3 GB	2 GB
HCX-WAN-OPT	8	14 GB	100 GB / 5000 IOPS

The full list of requirements are shown in the System Requirements for HCX product documentation page [docs.vmware.com/en/VMware-HCX/services/user-guide/GUID-D64901F4-6AB4-4820-9303-27927648A34D.html](https://docs.vmware.com/en/VMware-HCX/services/user-guide/GUID-D64901F4-6AB4-4820-9303-27927648A34D.html)

