

VMware Cloud Activation Advanced

For VMware Cloud on AWS

AT A GLANCE

VMware Cloud Activation Advanced for VMware Cloud on AWS accelerates cloud migrations with insights into application dependencies and logs dashboard. This service includes an guided activation of your target cloud platform, a solutions overview, creation of your first SDDC, activation of VMware vRealize Log Insight™ dashboards, deployment and pairing of VMware HCX components including L2 extension, virtual machine's network dependencies mapping, and the successful migration of up to 15 low-complexity virtual machines in a single wave.

KEY BENEFITS

- Quickly start your cloud Journey
- Rapid instantiation of a VMware Cloud SDDC
- Intuitive dashboards for logs and audits
- Expedited deployment of HCX
- L2 stretch of one network segment
- Analyze virtual networking dependencies
- Successfully migrate up to 15 virtual machines to the Cloud
- Guided workshops and workload migration best practices and methodology

SKU

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Service overview

VMware Cloud Activation™ Advanced for VMware Cloud™ on AWS provides rapid Instantiation of a VMware software defined data center (SDDC) on AWS, expedites the deployment of VMware HCX® product components, and migrates a single wave up to 15 virtual machines (VMs). This service includes the L2 extension of a single network segment from your on-premise environment to VMware Cloud.

An important aspect of migrations is evaluating application dependencies to successfully plan of the activities; Using VMware vRealize® Network Insight™ Cloud we will enable Customer with insight into their virtual infrastructure network and to the virtual machine dependencies.

The analysis and methodology provided can be used by Customer to determine data flows into and out of applications and application groups as part of application migration, network troubleshooting or disaster recovery planning.

To get quick time to value in operating the new cloud environment, VMware will also provide a setup for out-of-the-box log collection and analytics for VMware Cloud on AWS, combined with efficient and intuitive dashboards.

Finally, to ensure the Customer's team is fully enabled, this service Includes a VMware Migration Hub overview, knowledge transfer sessions, an overview of the VMware application migration methodology, best practices, and Information resources.

The following activities are included in this service:

- Instantiation and/or review 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
- Virtual machines network dependencies analysis using vRealize Network Insight Cloud
- The bulk migration of up to 15 low complexity virtual machine in a single wave
- Configuration and overview of default dashboard using vRealize Log Insight Cloud
- A VMware Migration Hub knowledge transfer session
- A VMware migration methodology workshop 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 vRealize Network Insight Cloud
- VMware vRealize Log Insight Cloud
- VMware vSphere® 5.5U2 or higher (for on-premises components)

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 the Customer to join virtual sessions and engage their infrastructure, network and security teams when appropriate to execute required actions (e.g. firewall port configurations or appliance deployments) under the VMware Team’s supervision. The delivery team will also require validation of the proper configurations and requirements 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 change to IP or network topology
- Virtual machines network dependency mapping
- Out-of-the-box logs and audit dashboard

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

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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.

VMWARE VREALIZE NETWORK INSIGHT CLOUD		
SPECIFICATION	PARAMETERS	DESCRIPTION
VMware product required		Network Insight subscription through http://cloud.vmware.com . Customer must provide access user account if Customer subscription is used.
VMware vCenter Server® instances	Up to one (1)	VMware vCenter Server® instances used during the application discovery process.
Applications	Up to three (3)	Unique application instances discovered and mapped, across all vCenter instances (total).

VMWARE VREALIZE LOG INSIGHT CLOUD		
SPECIFICATION	PARAMETERS	DESCRIPTION
Alerts	Up to two (2)	Alerts developed and implemented.
Dashboards	Up to one (1)	Dashboards developed and implemented.
Widgets	Up to six (6)	Widgets placed per dashboard.

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; groups of VMs that doesn't fit in up to two (2) days of replication time will not be included.

vRealize Network Insight Cloud

- Valid product license must be provided by the customer
- Configuration of customer's physical devices
- Applications that consume only physical resources may not be recognized by the discovery process.
- Troubleshooting of Customer's networking and devices

vRealize Log Insight Cloud

- Additional collectors that are not part of the VMware Cloud
- Log forwarding/Archival/Processing rules
- Webhook Configuration
- API configuration
- Custom dashboards and alerts

Workload Migration

- Pre- and post-application validation
- Backup/restore of virtual machines
- Multi-instance 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 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.
- Physical servers to virtual machines migration
- Clustered virtual machines migration

Estimated Schedule

VMware estimates that the duration of this project will not exceed 6 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

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
- vRealize network insights requirements validation
- 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 specifications
- Finalizes the Configuration Workbook
- Identifies the VMs and apps relationships
- Executes 1 migration wave (up to 15 VMs) and service component functional test validation
- Configure vRealize Log Insight Dashboard

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.

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)
- Each virtual machine overall allocated disk size should not exceed more than 250 GB
- Distributed vSwitch for networks that has to be extended
- The availability of the NTP service is critical to system operations.
- IPFIX for networking flow information
- 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

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FOR MORE INFORMATION

Contact a Consulting Services expert at vmware.com/company/contact.html.

The full list of requirements are shown in the following:

- System Requirements for HCX product documentation page docs.vmware.com/en/VMware-HCX/services/user-guide/GUID-D64901F4-6AB4-4820-9303-27927648A34D.html
- System Requirements for vRealize Network Insight Cloud product documentation page <https://docs.vmware.com/en/VMware-vRealize-Network-Insight-Cloud/services/com.vmware.vrni.using.doc/GUID-50888EDB-EB07-48F8-B159-DEDEE7C32C65.html>
- System Requirements for vRealize Log Insight Cloud product documentation page <https://docs.vmware.com/en/VMware-vRealize-Log-Insight-Cloud/index.html?hWord=N4lghgNiBclG4CcCmkCWAJACCB7A5lqgHYDOq+AFgC5YDGeArgCYgC+QA>

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