



Hybrid Migration with vMotion Checklist

Requirement	Description
Networking speed and latency	Migration with vMotion requires sustained minimum bandwidth of 250 Mbps between source and destination vMotion vMkernel interfaces, and a maximum latency of 100 ms round trip between source and destination
On-premises vSphere version	vSphere 6.5 patch d and later
	vSphere 6.0 update 3 and later If your on-premises vCenter Server is part of an MxN Enhanced Linked Mode configuration, nodes in your on-premises data center must be within the same site to minimize latency.
	vSphere 5.1 or 5.5 vMotion from on-premises data centers running vSphere 5.1 or 5.5 can be supported only by using the VMware Hybrid Cloud Extension. See https://hcx.vmware.com/content/docs/vmware-hcx-enterprise-install-guide.pdf for more information.
On-premises virtual switch configuration	Standard switches If you use standard switches for virtual machine networking, you can migrate virtual machines to your cloud SDDC, but cannot migrate them back to your on-premises data center.
	vSphere Distributed Switch 6.0 By default, VMware Cloud on AWS SDDCs are deployed with vSphere Distributed Switch version 6.0. Use vSphere Distributed Switch version 6.0 in your on-premises data center for compatibility.
	vSphere Distributed Switch 6.5 If you must use vSphere Distributed Switch version 6.5 in your on-premises data center, you can request an upgrade of the distributed switches in your cloud SDDC. Contact VMware Support.
IPsec VPN	Configure an IPsec VPN for the management gateway. See "Configuring VPNs and Gateways" in <i>Getting Started With VMware Cloud on AWS</i> .
Direct Connect	Direct Connect using a private virtual interface is required for migration with vMotion. Complete the following: <ol style="list-style-type: none">1. Set Up an AWS Direct Connect Connection2. Create a Private Virtual Interface for vMotion and ESXi Management Traffic3. Configure vMotion Interfaces for Use with Direct Connect
Hybrid Linked Mode	Hybrid Linked Mode is required to initiate migration from the vSphere Client. It is not required to initiate migration using the API or PowerCLI. See "Hybrid Linked Mode" in <i>Managing the VMware Cloud on AWS Data Center</i> .
L2 VPN	Configure a Layer 2 VPN to extend virtual machine networks between your on-premises data center and cloud SDDC. Routed networks are not supported. See Configure an Extended Network and Layer 2 VPN .
VMware Cloud on AWS firewall rules	Ensure that you have created the necessary firewall rules as described in Required Firewall Rules for vMotion
On-premises firewall rules	Ensure that you have created the necessary firewall rules as described in Required Firewall Rules for vMotion .



Virtual machine hardware and settings	<p>Ensure that these requirements are met for virtual machine hardware.</p> <ul style="list-style-type: none">• Virtual machine hardware version 9 or later is required for migration with vMotion from the on-premises data center to the cloud SDDC.• EVC is not supported in the VMware Cloud on AWS SDDC.• VMs that are created in the cloud SDDC or that have been power-cycled after migration to the cloud SDDC can't be migrated back to the on-premises data center with vMotion unless the on-premises EVC baseline is Broadwell. You can relocate these VMs after powering them off, as long as their virtual machine hardware
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This checklist describes end to end the requirements and configurations needed for migration with vMotion between your on-premises data center and your cloud SDDC.

Content sourced from our partner VMware