

HyperSDK

10 Cloud Provider Integrations

Export, import, and migrate VMs across vSphere, AWS, Azure, GCP, Hyper-V, Proxmox, OpenStack, OCI, Alibaba Cloud, and local KVM — all through a unified API.

10 Providers — Unified API — Multi-Format — Production Tested

Provider Overview

All 10 providers with supported formats and test coverage.

Provider	SDK / Protocol	Export Formats	Tests	Coverage
vSphere	govmomi	OVF, OVA, VMDK	24	92%
AWS EC2	AWS SDK v2	OVA, VMDK, VHD, raw	18	88%
Azure	Azure SDK	VHD, VHDX, OVA	16	85%
GCP	Google Cloud SDK	VMDK, raw, OVA	15	84%
Hyper-V	WinRM / PowerShell	VHD, VHDX	14	82%
Proxmox	REST API + vzdump	qcow2, raw, VMA	12	80%
OpenStack	Gophercloud	qcow2, raw, VMDK	11	78%
OCI	OCI SDK	VMDK, qcow2	10	76%
Alibaba Cloud	Alibaba SDK	qcow2, VHD, raw	9	74%
Local KVM	libvirt	qcow2, raw	20	90%

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Providers

149

Total tests

83%

Avg coverage

vSphere Deep Dive

Enterprise-grade vSphere integration with CBT, parallel downloads, and proven at 182 VMs.



govmmomi SDK

Direct vSphere API access via govmmomi. No vCenter CLI tools required. Supports vSphere 6.5 through 8.0.



Changed Block Tracking

CBT-based incremental exports transfer only changed blocks. 95% faster for subsequent exports after the initial full copy.



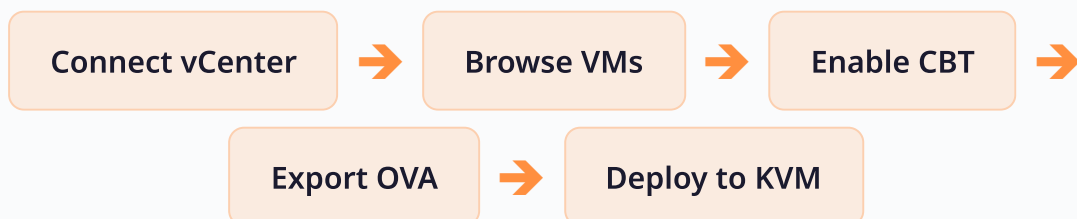
Parallel Downloads


Multi-threaded disk download with configurable concurrency. Saturate your network link for maximum throughput.



182 VMs Proven

Tested with 182 production VMs across multiple vCenter instances. Handles large-scale migrations with job queuing and priority.





"We migrated 182 VMs from vSphere to KVM over a weekend using HyperSDK's parallel export pipeline. CBT made the incremental sync painless."

Public Cloud Providers

AWS EC2, Azure, and GCP export paths for cloud-to-on-prem migration.



AWS EC2

Export AMIs and EBS snapshots to S3 as OVA, VMDK, VHD, or raw.
Download via S3 presigned URLs.
Import from S3 to EC2.



Azure

Export managed disks from Azure Blob Storage as VHD or VHDX. SAS token authentication.
Import VHDX to Azure managed disks.



GCP

Export Compute Engine images to Cloud Storage as VMDK or raw.
gsutil parallel download. Import to Compute Engine from GCS.

Export Path Comparison

Step	AWS	Azure	GCP
1. Authenticate	IAM credentials	Service principal	Service account JSON
2. Snapshot	EBS snapshot	Disk snapshot	Image create
3. Export	S3 bucket	Blob container	GCS bucket
4. Download	Presigned URL	SAS token	gsutil / signed URL
5. Convert	qemu-img convert	qemu-img convert	qemu-img convert

Private Cloud Providers

Hyper-V, Proxmox, OpenStack, OCI, and Alibaba Cloud integrations.



Hyper-V (WinRM)

Remote PowerShell execution via WinRM. Export VHD/VHDX disks. Handle Hyper-V checkpoints and integration services.



Proxmox (vzdump)

REST API for VM listing and management. vzdump for full and incremental backups. PBS (Proxmox Backup Server) integration.



OpenStack

Gophercloud SDK for Glance image export, Nova instance snapshots, and Cinder volume downloads. Multi-region support.



OCI & Alibaba

Oracle Cloud Infrastructure and Alibaba Cloud compute instance exports via their respective SDKs. Object storage download paths.

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Private cloud providers

56

Tests across private cloud

1

Unified API for all

Provider Management UI

Connect, configure, and test cloud providers from the dashboard.



Connect Forms

Provider-specific connection forms with field validation. Enter credentials, endpoints, and regions. Sensitive fields are masked.



Test Connection

One-click connection test verifies credentials, network connectivity, and API permissions before saving the configuration.



Status Dashboard

At-a-glance view of all configured providers with connection status (connected, error, unconfigured), last test time, and VM count.



Credential Management

Credentials stored in the HyperSDK secret manager with encryption at rest. Rotate credentials without reconfiguring exports.

Connect Any Cloud in Minutes

Add a provider, test the connection, and start migrating. HyperSDK's unified API means your export workflow is the same regardless of the source cloud.

