

HyperSDK

vs Alternatives

How HyperSDK compares to existing VM migration and management tools — and why it's the only platform built for true multi-cloud operations.

Competitive Analysis — Market Positioning — Differentiation

Market Landscape

Existing tools solve parts of the problem — none solve all of it.



VMware vSphere

Industry standard hypervisor, but proprietary, expensive (post-Broadcom), and locked to the VMware ecosystem. No multi-cloud export capability.



AWS Migration Hub

Migrates workloads *into* AWS only. No export capability. No support for Azure, GCP, or on-prem targets. Vendor lock-in by design.



Azure Migrate

Azure-only destination. Assessment and migration to Azure VMs. Cannot export Azure VMs to other platforms. Closed ecosystem.



virt-v2v (Red Hat)

Excellent VMware-to-KVM converter but CLI-only, no API, no web dashboard, no multi-cloud discovery, no scheduling. Single-VM focus.



MTV (Forklift)

Kubernetes-native VMware-to-KubeVirt migration. Requires Kubernetes cluster. No support for AWS, Azure, GCP, OCI, or other clouds.



CloudEndure (AWS)

Continuous replication to AWS. Acquired by AWS, focused exclusively on AWS migration. No reverse (cloud-to-on-prem) capability.

"Every existing tool is either vendor-locked (AWS, Azure), format-limited (virt-v2v), or platform-specific (MTV). None provide unified multi-cloud VM management."

Feature Comparison

HyperSDK vs the alternatives — head to head.

Capability	HyperSDK	virt-v2v	MTV / Forklift	CloudEndure
Multi-cloud support (10 providers)	✓ 10 providers	× VMware only	× VMware only	× AWS only
API-driven (REST + WebSocket)	✓ 150+ endpoints	× CLI only	✓ K8s API	~ Console
Web dashboard	✓ React + standalone	× None	✓ OKD Console	✓ AWS Console
Carbon-aware scheduling	✓ Industry first	×	×	×
Provider plugin architecture	✓ Hexagonal ports	× Monolithic	~ Operator CRDs	× Proprietary
Cost estimation	✓ Built-in	×	×	~ AWS pricing
Batch migration & scheduling	✓ Cron + deps	× Single VM	✓ Plans	✓ Waves
Open source	✓ Apache 2.0	✓ GPL	✓ Apache 2.0	× Proprietary
Reverse migration (cloud to on-prem)	✓ Any direction	×	×	×

**RBAC + audit
logging**

✓ **Built-in**

✗

✓ **K8s
RBAC**

✓ **IAM**

Unique Differentiators

What makes HyperSDK fundamentally different.



10 Cloud Providers

No other tool supports vSphere, AWS, Azure, GCP, Hyper-V, OCI, OpenStack, Alibaba, Proxmox, and KubeVirt through a single unified interface.



Carbon-Aware Scheduling

Industry-first: schedule batch migrations during low-carbon grid windows. 30-50% CO2 reduction. ESG compliance reporting built-in.



Hexagonal Architecture

Clean domain/ports/adapters with 70+ types and 13+ interfaces. Add new providers by implementing two interfaces — no core changes needed.



Dual Dashboard

React SPA for rich interactions plus standalone Go-rendered pages (/vms, /providers-ui, /jobs-ui, /export-ui) for lightweight access.



Bidirectional Migration

Not just cloud-to-on-prem: HyperSDK enables any-to-any migration. Cloud repatriation, cross-cloud moves, and hybrid deployments.



Cost Estimation Engine

Built-in cost modeling compares current provider spending against migration targets. ROI calculation before committing to migration.

Open Source **Advantage**

Apache 2.0 — no vendor lock-in, no license fees, full extensibility.



Apache 2.0 License

Permissive open-source license. Use in commercial products. Fork and customize. No copyleft restrictions. No license fees ever.



Extensible by Design

Add new cloud providers by implementing ComputeProvider and ExportProvider interfaces. No core code changes. Compile-time verification.



Full Transparency

Every line of code is auditable. No hidden telemetry. No phone-home. Security teams can verify the entire codebase.



No Vendor Lock-in

HyperSDK itself prevents lock-in: switch providers, targets, or deployment models without changing your toolchain.




Community-Driven

Open contribution model. Provider implementations from domain experts. Bug reports become fixes, not support tickets.



Single Binary

Go compiles to a single static binary. No runtime dependencies. No Python virtualenvs. No JVM. Deploy anywhere Linux runs.



"The best migration tool is one that makes itself unnecessary — by giving you freedom to move workloads anywhere, anytime, with zero vendor dependency."

Why Choose HyperSDK

The only platform that checks every box.

10

Cloud Providers
One Interface

\$0

License Cost
Forever

150+

API Endpoints
Full Automation

1st

Carbon-Aware
Migration Tool



For Platform Teams

Unified API for multi-cloud VM management. Integrate into existing CI/CD pipelines. RBAC and audit logging for enterprise governance.



For IT Leaders

Eliminate vendor lock-in. Reduce licensing costs by 70%+. Meet ESG targets with carbon-aware scheduling. Open source with enterprise features.



For Engineers

Clean Go codebase with hexagonal architecture. Easy to extend with new providers. Comprehensive test suite. Great developer experience.



For Enterprises

Production-grade security (PAM, RBAC, SSRF protection). systemd, Docker, and Kubernetes deployment. Webhook integration for operations.

Stop Managing 10 Tools. Start Using One.

HyperSDK unifies multi-cloud VM discovery, export, and migration into a single open-source platform.

Apache 2.0 licensed. Production-ready. No vendor lock-in.

github.com/ssahani/hypersdk

HyperSDK — Competitive Analysis

The only multi-cloud VM management platform with 10 providers, carbon-aware scheduling, and hexagonal architecture

github.com/ssahani/hypersdk