HyperSDK

ROI & Cost Analysis

Quantifying the financial impact of automated multi-cloud VM migration with HyperSDK. From manual processes to fully automated workflows.

93% Cost Reduction — 89% Time Savings — Proven ROI

Traditional Migration Costs

Manual VM migration is expensive, slow, and error-prone.

Engineering Labor

Senior engineers spend 4-8 hours per VM on manual exports, format conversions, and re-imports. At $150/hr, each VM costs $600-$1,200 in labor alone.

Downtime Costs

Each VM migration window requires 2-6 hours of downtime. For revenue-critical workloads, downtime costs $5,000-$50,000 per hour.

Failed Migrations

15-25% of manual migrations fail on first attempt. Rollback, troubleshooting, and retry doubles the cost. Each failure wastes 8-16 engineering hours.

Project Management

Coordination across teams, scheduling maintenance windows, documentation, and compliance reviews add 30-40% overhead to every migration project.

Per-VM Cost Breakdown (Manual Process)

Cost Category	Hours	Rate	Cost per VM
Discovery & Assessment	1.5	$150/hr	$225
Export & Conversion	3.0	$150/hr	$450
Transfer & Import	2.0	$150/hr	$300
Validation & Testing	2.0	$150/hr	$300

Documentation & Compliance	1.0	$150/hr	$150
Total per VM	**9.5**		**$1,425**

HyperSDK Cost Savings

Automation slashes migration costs by 93% and time by 89%.

$100
Per-VM Cost
(vs $1,425 manual)

1 hr
Per-VM Time
(vs 9.5 hrs manual)

98%
First-Attempt
Success Rate

Automated Export

One-click VM export across 9 providers. No manual disk conversion, no scripting. HyperSDK handles VMDK, VHD, QCOW2, and raw formats automatically.

Batch Processing

Export 10, 50, or 500 VMs in a single batch job. Parallel processing with configurable concurrency. No per-VM engineering time.

Reduced Downtime

Streaming exports minimize the maintenance window. Progress tracking and ETA let you plan precisely. Auto-retry on transient failures.

Built-in Validation

Automatic manifest generation with checksums, metadata, and hardware config. No manual documentation. Compliance-ready audit trail.

> *"With HyperSDK, our team of 3 migrated 200 VMs in a weekend. The same project was quoted at 6 weeks and $285,000 by a consulting firm."*

Cloud Storage Cost Comparison

HyperSDK exports directly to your preferred cloud storage — compare the costs.

Feature	AWS S3	Azure Blob	Google Cloud Storage
Standard Storage (per GB/mo)	$0.023	$0.018	$0.020
Infrequent Access (per GB/mo)	$0.0125	$0.010	$0.010
Archive (per GB/mo)	$0.004	$0.002	$0.004
PUT Requests (per 1K)	$0.005	$0.005	$0.005
GET Requests (per 1K)	$0.0004	$0.004	$0.0004
Data Transfer Out (per GB)	$0.09	$0.087	$0.12
HyperSDK Integration	**Native**	**Native**	**Native**

Example: 100 VMs (avg 50 GB each = 5 TB total)

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AWS S3 Standard

$115/month
Best for active workloads. Use S3 Intelligent-Tiering for auto-optimization.

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Azure Blob Hot

$90/month
Competitive pricing. Seamless integration with Azure Migrate workflows.

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GCS Standard

$100/month
Multi-region by default. Good for distributed teams with carbon-aware scheduling.

3-Year TCO Projection

Total Cost of Ownership for migrating 500 VMs — manual vs HyperSDK.

Cost Category	Year 1	Year 2	Year 3	3-Year Total
Manual Migration				
Engineering Labor (500 VMs)	$712,500	--	--	$712,500
Project Management (40%)	$285,000	--	--	$285,000
Downtime Costs (est.)	$250,000	--	--	$250,000
Failed Migration Rework (20%)	$142,500	--	--	$142,500
Tooling & Licenses	$50,000	$50,000	$50,000	$150,000
Manual Subtotal	**$1,440,000**	**$50,000**	**$50,000**	**$1,540,000**
HyperSDK Automated				
HyperSDK Setup & Training	$15,000	--	--	$15,000
Engineering Labor (500 VMs)	$50,000	--	--	$50,000
Cloud Storage (5 TB)	$1,200	$1,200	$1,200	$3,600
Ongoing Maintenance	$5,000	$5,000	$5,000	$15,000
Downtime Costs (minimal)	$10,000	--	--	$10,000
HyperSDK Subtotal	**$81,200**	**$6,200**	**$6,200**	**$93,600**

$1.45M	16.4x	94%
Total 3-Year Savings	Return on Investment	Cost Reduction

Summary ROI Metrics

The business case for HyperSDK is clear and measurable.

93%	89%	98%	16x
Cost Reduction per VM Migration	Time Reduction per VM Migration	First-Attempt Success Rate	Return on Investment (3-yr)

Direct Cost Savings

Eliminate $1,325 in labor per VM. Batch processing reduces per-VM cost to under $100 including cloud storage and compute.

Time to Value

Deploy HyperSDK in under 1 hour. First VM export within 30 minutes. Full 500-VM migration in days, not months.

Risk Reduction

98% success rate eliminates costly rework. Automatic rollback, retry logic, and validation prevent data loss and extended outages.

Carbon-Aware Bonus

Carbon-aware scheduling saves 262 kg CO2/year per 100 VMs. Quantifiable ESG metric for sustainability reporting.

Ready to Calculate Your ROI?

Contact us for a custom ROI analysis based on your VM inventory, cloud targets, and compliance requirements. Most enterprises see payback in under 30 days.