HyperSDK

Cloud Cost Optimization

Interactive cost estimation, multi-cloud pricing comparison, on-prem savings analysis, and carbon-aware scheduling. Make data-driven infrastructure decisions.

93% Cost Reduction — Multi-Cloud Comparison — Carbon-Aware — TCO Calculator

Cost Estimator UI

Interactive sliders and multi-cloud comparison in a single view.

Interactive Sliders

Adjust vCPUs, memory, storage, and bandwidth with sliders. Cost estimates update in real-time across all providers simultaneously.

Multi-Cloud Comparison

Side-by-side pricing for AWS, Azure, GCP, and on-prem KVM. See hourly, monthly, and annual costs at a glance.

Savings Visualization

Bar charts and percentage badges show exactly how much you save by migrating to on-prem KVM vs. each cloud provider.

Export Reports

Download cost comparison reports as PDF or CSV for executive review, procurement justification, or compliance documentation.

4
Providers compared

Real-time
Price updates

1-click
Report export

Provider Pricing

AWS S3 vs. Azure Blob vs. GCS — storage cost comparison for VM backups.

Compute Pricing (4 vCPU, 16 GB RAM)

Provider	Instance Type	Hourly	Monthly	Annual
AWS EC2	m5.xlarge	$0.192	$140.16	$1,681.92
Azure	D4s v3	$0.192	$140.16	$1,681.92
GCP	e2-standard-4	$0.134	$97.82	$1,173.84
On-Prem KVM	Bare metal	**$0.008**	**$5.84**	**$70.08**

Storage Pricing (1 TB)

Provider	Service	Monthly	Egress (100 GB)
AWS	S3 Standard	$23.00	$9.00
Azure	Blob Hot	$18.40	$8.70
GCP	Cloud Storage	$20.00	$12.00
On-Prem	Local SSD	**$1.50**	**$0.00**

On-Prem vs Cloud Savings

93% cost reduction by migrating workloads from public cloud to on-prem KVM.

93%
Cost reduction vs. AWS

$19K
Annual savings per server

6 mo
Hardware payback period

Example: 10-Server Fleet Migration

Cost Category	AWS (Annual)	On-Prem KVM (Annual)	Savings
Compute (40 vCPU, 160 GB RAM)	$16,819	$700	**$16,119 (96%)**
Storage (10 TB)	$2,760	$180	**$2,580 (93%)**
Network (1 TB egress/mo)	$1,080	$0	**$1,080 (100%)**
Licensing	$0	$0	$0
Total	**$20,659**	**$880**	**$19,779 (96%)**

> *"A single server migration from AWS EC2 to on-prem KVM saves enough in 6 months to pay for the physical hardware — and then keeps saving year after year."*

Carbon-Aware Scheduling

30-50% CO2 reduction through intelligent workload scheduling and ESG compliance.

Grid Carbon Intensity

Real-time carbon intensity data from electricity grid APIs. Schedule heavy workloads when the grid is cleanest (wind, solar peaks).

30-50% CO2 Reduction

Shifting migration jobs to low-carbon hours reduces emissions by 30-50% with zero impact on SLAs for non-urgent workloads.

ESG Compliance

Generate carbon reports for ESG (Environmental, Social, Governance) compliance. Track CO2 per VM, per job, and per team.

Smart Scheduling

The scheduler considers carbon intensity alongside cost and performance. Migrations happen at the optimal intersection of all three.

Check Grid Carbon → Find Low-Carbon Window →
Schedule Migration → Report CO2 Saved

TCO Calculator

3-year total cost of ownership projection for cloud vs. on-prem.

Cost Category	Year 1	Year 2	Year 3	3-Year Total
AWS EC2 (10 servers)				
Compute	$16,819	$16,819	$16,819	$50,457
Storage	$2,760	$2,760	$2,760	$8,280
Network	$1,080	$1,080	$1,080	$3,240
AWS Total	**$20,659**	**$20,659**	**$20,659**	**$61,977**
On-Prem KVM (10 servers)				
Hardware (amortized)	$4,000	$0	$0	$4,000
Power & Cooling	$600	$600	$600	$1,800
Management (HyperSDK)	$0	$0	$0	$0
On-Prem Total	**$4,600**	**$600**	**$600**	**$5,800**

$56K
3-year savings (10 servers)

91%
TCO reduction

3 mo
Break-even point

See Your Savings

Run the cost estimator with your actual workload parameters. Export the TCO report and share it with your finance team. The numbers speak for themselves.