

HyperSDK

Web Dashboard & Management UI

A modern React + Tailwind dashboard with dark theme, plus standalone Go-served pages that always work — no build step required for core functionality.

React SPA + Standalone Pages — Zero External Dependencies

Dashboard Overview

Two-tier UI architecture: a full React SPA for power users and standalone pages for reliability.



React + Tailwind SPA

Modern single-page application built with React and Tailwind CSS. Dark theme by default. Responsive layout works on desktop, tablet, and mobile.



Dark Theme Design

Professional dark UI reduces eye strain during long migration sessions. Consistent color palette with orange (#ff8f3f) accents for status and actions.



Real-Time Metrics

Live system metrics, job progress, and provider status. Auto-refreshing dashboards with configurable intervals. WebSocket support for instant updates.



API-Driven

All dashboard data fetched from the /api/v1/ REST endpoints. Same API available for CLI, SDK, and third-party integrations. No UI-only features.

Dashboard Components

StatCards

ChartContainer

AlertsList

JobsTable

VMBrowser

ProviderManager

"The dashboard gives you full visibility into your migration fleet — from high-level stats to individual VM progress — in a single pane of glass."

Standalone Pages

Go-served HTML pages that always work — no Node.js, no build step, no JavaScript framework required.



/vms — VM Browser

Browse all discovered VMs across providers. Search by name, filter by provider, paginate through thousands of VMs. Direct link to export any VM.



/providers-ui — Provider Manager

Connect and configure cloud providers. Visual forms for vSphere, AWS, Azure, GCP, Proxmox, and more. Test connectivity before saving.



/jobs-ui — Job Monitor

View all running, completed, and failed jobs. Real-time progress bars, ETA display, and cancel buttons. Filter by status or provider.



/export-ui — Export Workflow

Step-by-step VM export wizard. Select source VM, choose target format and destination, configure options, and launch the export with one click.

Why Standalone Pages?

Benefit	Details
Always Available	Served directly by the Go daemon. No npm, no webpack, no build pipeline. Works even if React assets are missing.

Zero
Dependencies

Pure HTML + inline CSS + vanilla JS. No CDN calls, no external fonts, no third-party scripts.

Instant Load

Pages load in under 100ms. No JavaScript bundle to parse. Critical for slow network or air-gapped environments.

Accessible

Semantic HTML, keyboard navigation, screen-reader compatible. Works in any browser including text-mode browsers.

VM Browser

Discover, search, and export VMs from any connected provider at /vms.



Search & Filter

Full-text search across VM names, IPs, and tags. Filter by provider (vSphere, AWS, Azure, etc.), power state, OS type, or resource size.



Pagination

Handles inventories of 10,000+ VMs. Server-side pagination with configurable page size. Maintains search and filter state across pages.



Bulk Export

Select multiple VMs with checkboxes and export them as a batch job. Configure shared export settings (format, destination, compression) for all selected VMs.



Export Modal

Click any VM to open the export modal. Choose target cloud, format (VMDK, QCOW2, VHD, RAW), compression, and destination path. One-click launch.

VM Information Displayed

Column	Description
Name	VM display name with provider icon badge
Provider	Source hypervisor (vSphere, AWS, Azure, GCP, Proxmox, etc.)
State	Power state with color indicator (running = green, stopped = gray)

vCPUs / RAM

CPU count and memory allocation

Disk

Total provisioned storage with format indicator

OS

Guest operating system (auto-detected)

Actions

Export button, details link, provider console link

Provider Management

Connect, configure, and manage 9 cloud and hypervisor providers from the UI.

9

Supported Providers

30s

Average Setup Time

1-Click

Connectivity Testing



VMware vSphere

vCenter URL, username, password, datacenter selection. Auto-discovers clusters, hosts, and VM inventory.



AWS

Access Key, Secret Key, Region, S3 bucket. IAM role support. Multi-region discovery across all EC2 instances.



Azure

Tenant ID, Client ID, Client Secret, Subscription. Service principal or managed identity authentication.



GCP

Service account JSON key, Project ID, Zone. Workload identity federation for keyless auth.



Proxmox

API URL, token ID, token secret. Discovers QEMU and LXC containers across cluster nodes.



+ 4 More

Hyper-V, OpenStack, OCI, Alibaba Cloud. Each with provider-specific configuration forms and

connectivity
testing.

Job Monitoring

Real-time visibility into every migration job with auto-refresh, cancel, and ETA tracking.



Real-Time Stats

Live counters for running, queued, completed, and failed jobs. Total data transferred, average throughput, and success rate displayed as stat cards.



Auto-Refresh

Dashboard auto-refreshes every 5 seconds (configurable). No manual reload needed. Smooth transitions prevent UI flicker during updates.



Cancel Jobs

Cancel running or queued jobs with one click. Graceful shutdown ensures partial exports are cleaned up. Operator and Admin roles can cancel.



ETA & Progress

Per-job progress bar with percentage, bytes transferred, and estimated time remaining. Throughput-based ETA adjusts dynamically as transfer speed changes.

Job Status Lifecycle



Try the Dashboard Today

Run `hypervisord` and open `http://localhost:8080` in your browser. The dashboard is built in and ready to use — no additional setup required.

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