

HyperSDK

Infrastructure Management

Create VMs with a guided wizard, manage snapshots, storage pools, and ISOs — all from the browser. Bulk operations let you act on dozens of VMs at once.

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VM Create Wizard

A 5-step guided wizard that generates the perfect virt-install command.

1

Name & OS Selection

Choose a VM name and select the guest OS from a searchable list. The wizard auto-applies OS-specific optimizations.

2

CPU & Memory

Slider-based vCPU and memory selection with host capacity indicators. Warnings when overcommitting resources.

3

Storage Configuration

Select storage pool, disk size, and format (qcow2/raw). Thin provisioning enabled by default. Attach existing disk images.

4

Network Setup

Pick from available libvirt networks (NAT, bridged, macvtap). Add multiple NICs. Configure MAC addresses.

5

Review & Create

Review the generated virt-install command, make final adjustments, and create the VM with a single click.

```
virt-install --name ubuntu-web-01 --ram 8192 --vcpus 4 \  
  --disk pool=default,size=40,format=qcow2 \  
  --cdrom /var/lib/libvirt/images/ubuntu-22.04.iso \  
  --network network=br0 --os-variant ubuntu22.04 \  
  --graphics vnc,listen=0.0.0.0
```

Snapshot Manager

Create, revert, and delete VM snapshots with full safety for pre-migration workflows.



Create Snapshots

Internal (qcow2) and external snapshots via virsh. Named snapshots with descriptions for easy identification.



Revert to Snapshot

One-click revert to any previous snapshot. Confirmation dialog prevents accidental data loss.



Delete Snapshots

Clean up old snapshots to reclaim disk space. Cascade delete removes child snapshots automatically.



Pre-Migration Safety

Automatically create a safety snapshot before any export or migration operation. Easy rollback if anything goes wrong.

Snapshot	Created	Size	State	Actions
pre-migration-2024-03	2024-03-15 10:30	2.1 GB	shutoff	Revert Delete
weekly-backup-12	2024-03-10 02:00	1.8 GB	running	Revert Delete
post-patch-update	2024-03-08 14:15	2.3 GB	shutoff	Revert Delete

initial-setup

2024-02-01
09:00

1.2
GB

shutoff

Revert |
Delete

Storage Pool Manager

Manage libvirt storage pools with capacity visualization and volume listing.



Pool Overview

List all libvirt storage pools with type (dir, LVM, NFS, iSCSI), state (active/inactive), and autostart status.



Capacity Bars

Visual capacity bars for each pool showing used vs. available space. Color-coded warnings at 80% and 90% thresholds.



Volume Listing

Browse volumes within each pool. See format, capacity, allocation, and which VM uses each volume.



Pool Operations

Create new pools, activate/deactivate existing pools, and refresh pool metadata. Set autostart on boot.

Pool Name	Type	Capacity	Used	Available	Status
default	dir	500 GB	320 GB	180 GB	Active
fast-ssd	dir	1 TB	650 GB	350 GB	Active
nfs-backup	NFS	4 TB	1.2 TB	2.8 TB	Active
iscsi-san	iSCSI	2 TB	800 GB	1.2 TB	Inactive

ISO Manager

Manage ISO images with smart virtio-win detection and attach/detach operations.



ISO Library

Browse all ISO images across storage pools. Filter by OS type, size, and date. Upload new ISOs from the browser.



virtio-win Detection

Automatically detects virtio-win ISO images and recommends attaching them to Windows VMs for optimal driver support.



Attach / Detach

Hot-attach ISO images to running VMs as CDROM devices. Detach when installation is complete. No VM restart required.



Content Inspection

Peek inside ISO contents without mounting. Verify installation media integrity with checksum validation.

"Attach virtio-win drivers to a Windows VM during migration — the ISO Manager detects the right image and hot-attaches it without restarting the guest."

Bulk Operations

Act on multiple VMs simultaneously — export, shutdown, or snapshot in one action.



Bulk Export

Select multiple VMs and export them all to OVF/OVA/VMDK in a single operation. Parallel processing for speed.



Bulk Shutdown

Graceful shutdown of selected VMs with configurable timeout. Force-stop fallback for unresponsive guests.



Bulk Snapshot

Create named snapshots across all selected VMs simultaneously. Ideal for pre-maintenance safety checkpoints.

50+

VMs in a single bulk operation

3x

Faster than sequential

100%

Audit trail per VM

Manage Infrastructure at Scale

From single VM creation to bulk operations across your fleet — HyperSDK gives you the tools to manage infrastructure efficiently from the browser.

