

Description

Proxmox KVM module **WHMCS**

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Proxmox KVM WHMCS Module

The PUQ Proxmox KVM module for WHMCS provides automated provisioning, management, and billing of KVM virtual machines on Proxmox VE clusters. The module consists of two parts: the **Server Module** that handles VM provisioning and the client/admin interface, and the **Addon Module** that manages IP address pools, DNS zones, cron tasks, and provides a centralized management dashboard.

The module allows your customers to provision and manage KVM machines on your Proxmox server or Proxmox cluster. It exposes virtually all functions of Proxmox directly from the WHMCS panel without forcing the user (or admin) to log in to Proxmox itself. This greatly simplifies customer account management, improves customer satisfaction and reduces the number of support requests.

The module is intended for advanced users — installation and correct configuration require knowledge and experience in server and network administration. Although the documentation is detailed and allows the module to be installed by an intermediate user, we strongly suggest following the order defined in the installation chapter.

“ **Changed in v3.0.** Starting from v3.0 the module ships its own dedicated addon module (`|puq_proxmox_kvm|`) — the separate **PUQ Customization** addon required for v1.3–v2.x is **no longer needed**. On first activation the new addon automatically migrates IP pools, DNS zones and VM records from the old `|puq_customization|` tables.

“ **New in v3.3.** Full WHMCS Configurable Options coverage — 18 distinct options

with clean plain-English names cover every per-service customisation (CPU, RAM, every disk size / bandwidth / IOPS, network bandwidth, IP counts, OS, backups, snapshots). Every option has a sensible default in Module Settings so products work out of the box. Disk downgrades are blocked by a three-layer safety net; selecting `Additional Disk = 0` cleanly removes the extra disk. See the [Changelog](#) and the [Configurable Options chapter](#) for details.

Installation service

If you don't feel comfortable performing the installation yourself, PUQcloud offers an installation service in two variants — **module installation and configuration** and **full implementation**.

See puqcloud.com for details.

Main Features

- **Automated VM provisioning** — automatic deployment of KVM virtual machines via linked clone or full clone with state machine-based deploy pipeline
- **Post-clone migration** — automatic VM migration to the target node with correct storage after cloning, supporting cross-node deployment with local storage
- **VM lifecycle management** — create, suspend, unsuspend, terminate, reinstall, change package (upgrade/downgrade) with step-by-step state machine and retry logic
- **Firewall management** — configurable firewall policies, anti-spoofing IPSet rules, and client-side firewall rule management (add, delete, reorder)
- **Snapshot management** — create, rollback, and remove snapshots with configurable lifetime and automatic cleanup
- **Backup management** — manual and scheduled backups with restore capability, per-day schedule configuration
- **IPv4/IPv6 IP address pool management** — centralized IP allocation with per-server pools, automatic bridge/VLAN selection
- **DNS zone management** — Cloudflare and HestiaCP integration for forward and reverse DNS automation
- **noVNC web console** — secure browser-based console access via VNC proxy with one-time authentication links
- **Cloud-init support** — automatic hostname, IP, DNS, user, and password configuration via cloud-init
- **ISO mounting** — mount and unmount ISO images from Proxmox storage for OS installation
- **Resource usage charts** — real-time CPU, RAM, disk I/O, and network usage graphs with historical data

- **Usage-based billing** — network traffic metering (inbound/outbound) with WHMCS Metric Billing
- **Configurable client permissions** — per-product control over which features are available to customers (start, stop, noVNC, charts, reinstall, reset password, revDNS, ISO mount, firewall)
- **Multi-language support** — 25 languages including Arabic, Azerbaijani, Catalan, Chinese, Croatian, Czech, Danish, Dutch, English, Estonian, Farsi, French, German, Hebrew, Hungarian, Italian, Macedonian, Norwegian, Polish, Romanian, Russian, Spanish, Swedish, Turkish, and Ukrainian
- **Cron system** — flexible cron with two modes (WHMCS hook or standalone), configurable intervals per task, CLI tools, lock management
- **Admin product settings UI** — custom Bootstrap-based settings panel for VM configuration, storage, network, firewall, integrations, email templates, and client permissions

System Requirements

Requirement	Minimum
WHMCS	8.x or higher
PHP	7.4, 8.1, or 8.2
Proxmox VE	8.x or higher
ionCube Loader	v13 or newer

Module Components

Component	Type	Directory
Server Module	puqProxmoxKVM	modules/servers/puqProxmoxKVM/
Addon Module	puq_proxmox_kvm	modules/addons/puq_proxmox_kvm/

The **Addon Module** is required for the server module to function. It manages:

- IP address pools (IPv4 and IPv6)
- DNS zones (Cloudflare, HestiaCP)
- VM management dashboard
- Cron task orchestration
- Global settings (API timeouts, migration, cron intervals)

Links

- **Product page:** <https://puqcloud.com/whmcs-module-proxmox-kvm.php>
- **Documentation:** <https://doc.puq.info/books/proxmoxkvm-whmcs-module>
- **GitHub:** <https://github.com/puqcloud/WHMCS-Module-Proxmox-KVM>
- **Support:** <https://puqcloud.com/submitticket.php>
- **Community:** <https://community.puqcloud.com/>

Screenshots

Client Area — VM Overview

Manage Configurable Options Metrics

Start Stop noVNC Charts

Information on real time

Status running Uptime: 0 days 00:02:05	System disk 100 GiB R/W: 100/100 MB/s 500/500 IOPS
CPU 0.1% of 1 core(s)	Additional disk 200 GiB R/W: 200/200 MB/s 200/200 IOPS
RAM 14.34% 0.1434 / 1 GiB	Network adapter virtio BC:24:11:7F:40:9B 12 MB/s

Reinstall Snapshots Backups Reset password revDNS ISO

Firewall

Client Area — Firewall Rules

The screenshot shows the 'Firewall Policies' section. At the top, there are two dropdown menus for 'Input Policy' and 'Output Policy', both set to 'ACCEPT'. A green 'Save' button is located to the right. Below this is the 'Firewall Rules' section, which shows 4 rules. Each rule is represented by a row in a table with columns for #, Dir, Action, Proto, Source, S.Port, Dest, D.Port, and Comment. The first rule (ID 0) has an 'ACCEPT' action and source IP 4.4.4.4. The other three rules (IDs 1, 2, 3) have 'DROP' actions and source IPs 3.3.3.3, 8.8.8.8, and 1.1.1.1 respectively. Each rule has a trash icon for deletion.

#	Dir	Action	Proto	Source	S.Port	Dest	D.Port	Comment
0	IN	ACCEPT	any	4.4.4.4	any	any	any	
1	IN	DROP	any	3.3.3.3	any	any	any	
2	IN	DROP	any	8.8.8.8	any	any	any	
3	IN	DROP	any	1.1.1.1	any	any	any	

Admin Area — Product Configuration

Products/Services

Edit Product

Details Pricing Module Settings Custom Fields Configurable Options Upgrades Free Domain Cross-sells Other Links

The screenshot shows the 'Edit Product' configuration page for 'PUQ Proxmox KVM'. The 'Module Name' is 'PUQ Proxmox KVM' and the 'Server Group' is 'PROXMOX-private'. A license key is displayed as 'XXXXXXXX-XXXXX-XXXXXXXX-XXXXXX-XXXXXX' with a success message 'success: 2027-01-23T13:39:08+01:00'. The configuration is divided into several sections: 'VM Configuration' (Target node: Pve-waw2, OS template: Debian-12.00, Clone type: Full Clone, CPU: 1 cores, RAM: 1 GB, VM name rule: {service_id}-{unixtime}, First VM ID: 2000, OS username: root, Snapshot lifetime: 1 day), 'Network' (Model: VirtIO, Bandwidth: 12 MB/s, Bridge: vubr0, VLAN tag: 0), 'Firewall' (Input Policy: ACCEPT, Output Policy: ACCEPT, Log level in: nolog, Log level out: nolog, and various checkboxes for Enable, DHCP, NDP, Router Adv, MAC filter, IP filter, and Anti-spoofing), and 'Integrations'.

Addon Module — Dashboard

Navigation: Home | IP Pools | DNS Zones | VM Management | Settings | Help | v3.0

IP Pools 2 Manage	DNS Zones 0 Manage	KVM Services 1 View
VM Management Deploy status, retry, reset Manage	Settings Cron mode, configuration Configure	

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