

# Settings

## Proxmox KVM module **WHMCS**

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The Settings section is divided into two pages: **General** and **Cron**.

## General Settings

Navigate to **Addons > PUQ Proxmox KVM > Settings > General**.

The screenshot shows the WHMCS interface for the PUQ Proxmox KVM module. The top navigation bar includes links for Clients, Orders, Billing, Support, Reports, Utilities, and Addons. The main content area is titled 'General Settings' and contains several configuration options:

- API Timeouts**
  - Default Timeout (seconds)**: Input field with value 10. Description: Timeout for Proxmox API requests from admin/client area pages. Default: 10.
  - Heavy Operations Timeout (seconds)**: Input field with value 60. Description: Timeout for cron operations (deploy, clone, terminate, change package). Default: 60.
- VM Migration**
  - After cloning, migrate VM to the target node if the template is on a different node with local storage.
  - Enable post-clone migration**: When enabled, VMs cloned to the template node will be migrated to the target node. When disabled, VMs stay on the template node (old behavior).
  - Migration Timeout (seconds)**: Input field with value 300. Description: Max wait time per cron run for migration to complete. If exceeded, cron retries next run. Default: 300.
- Module Data**
  - Delete all database tables when module is deactivated**: When disabled (default), tables are preserved after deactivation. This allows safe module updates — deactivate, update files, reactivate.

The bottom of the page features a footer with 'Rights Reserved.' and links for 'Report a Bug', 'Documentation', and 'Contact Us'.

## API Timeouts

Setting	Default	Range	Description
<b>Default Timeout</b>	10s	1-300	Timeout for Proxmox API requests from admin/client area pages

Setting	Default	Range	Description
<b>Heavy Operations Timeout</b>	60s	1-600	Timeout for cronoperations (deploy, clone,terminate, changepackage)

## VM Migration

Setting	Default	Description
<b>Enable post-clone migration</b>	Yes	When enabled, VMs cloned to the template node will be automatically migrated to the target node with the correct storage
<b>Migration Timeout</b>	300s	Maximum wait time per cron run for migration to complete. If exceeded, cron retries on next run

## Module Data

Setting	Default	Description
<b>Delete all database tables</b>	No	When enabled, all module database tables are dropped on addon deactivation. When disabled (default), tables are preserved for safe updates

## Cron Settings

Navigate to **Addons > PUQ Proxmox KVM > Settings > Cron.**

## WHMCS Hook Mode

**Cron Settings** Save

**Cron Mode**

- WHMCS Hook** — Cron tasks run automatically via WHMCS AfterCronJob hook (~every 5 min)
- Standalone Cron File** — Add cron.php to system crontab (runs every minute, intervals managed internally)

**Task Intervals**

Set execution interval for each cron task in minutes. Set to 0 to disable a task. Intervals apply to both WHMCS Hook and Standalone modes.

Task	Interval (min)	Last Run	Status
<b>Process Virtual Machines</b> Continues VM provisioning (deploy, clone, set IP, CPU/RAM, disk, network, cloudinit). Also handles package changes and DNS record updates for VMs not yet in "ready" state.	1 default: 1	2026-04-10 03:34:00	ACTIVE
<b>Remove Old Snapshots</b> Removes snapshots that have exceeded their configured lifetime. Only processes VMs with existing snapshots.	1 default: 5	2026-04-10 03:34:00	ACTIVE
<b>Restore Backup Status</b> Monitors progress of backup restore operations. Sends confirmation email when restore completes successfully.	1 default: 1	2026-04-10 03:34:00	ACTIVE
<b>Now Backup Status</b> Monitors progress of on-demand backup operations. Clears tracking when backup completes or fails.	1 default: 1	2026-04-10 03:34:00	ACTIVE
<b>Schedule Backup</b> Triggers scheduled backups based on per-VM daytime configuration. Automatically rotates old backups when limit is reached.	1 default: 5	2026-04-10 03:34:00	ACTIVE
<b>Collecting Statistics</b> Collects network traffic statistics (in/out) from Proxmox RRD data. Runs once per hour per VM. Auto-cleans records older than 35 days.	60 default: 60	2026-04-10 03:34:00	ACTIVE

**Concurrency Protection**

**Lock Timeout (seconds)**

600

If a cron process runs longer than this, the lock is considered stale and will be automatically removed on the next run. This prevents stuck locks from blocking all future cron executions. Default: 600 (10 min).

In this mode, cron tasks run automatically as part of the WHMCS system cron. No additional configuration is needed.

# Standalone Mode

**Cron Settings** Save

**Cron Mode**

- WHMCS Hook** — Cron tasks run automatically via WHMCS AfterCronJob hook (~every 5 min)
- Standalone Cron File** — Add cron.php to system crontab (runs every minute, intervals managed internally)

**Crontab Setup**

Add the following line to your system crontab ( `crontab -e` ):

```
* * * * * php /home/whmcs-dev-puq-pL/web/whmcs-dev-puq-pL/public_html/modules/addons/puq_proxmox_kvm/cron.php > /dev/null 2>&1
```

CLI usage: `php cron.php --help` for all options. Run single task: `php cron.php --task-processVirtualMachines` | Show status: `php cron.php --list`

**Task Intervals**

Set execution interval for each cron task in minutes. Set to 0 to disable a task. Intervals apply to both WHMCS Hook and Standalone modes.

Task	Interval (min)	Last Run	Status
<b>Process Virtual Machines</b> Continues VM provisioning (deploy, clone, set IP, CPU/RAM, disk, network, cloudinit). Also handles package changes and DNS record updates for VMs not yet in "ready" state.	1 default: 1	2026-04-10 03:34:00	ACTIVE
<b>Remove Old Snapshots</b> Removes snapshots that have exceeded their configured lifetime. Only processes VMs with existing snapshots.	1 default: 5	2026-04-10 03:34:00	ACTIVE
<b>Restore Backup Status</b> Monitors progress of backup restore operations. Sends confirmation email when restore completes successfully.	1 default: 1	2026-04-10 03:34:00	ACTIVE
<b>Now Backup Status</b> Monitors progress of on-demand backup operations. Clears tracking when backup completes or fails.	1 default: 1	2026-04-10 03:34:00	ACTIVE
<b>Schedule Backup</b> Triggers scheduled backups based on per-VM daytime configuration. Automatically rotates old backups when limit is reached.	1 default: 5	2026-04-10 03:34:00	ACTIVE
<b>Collecting Statistics</b> Collects network traffic statistics (in/out) from Proxmox RRD data. Runs once per hour per VM. Auto-cleans records older than 35 days.	60 default: 60	2026-04-10 03:34:00	ACTIVE

**Concurrency Protection**

**Lock Timeout (seconds)**

600

If a cron process runs longer than this, the lock is considered stale and will be automatically removed on the next run. This prevents stuck locks from blocking all future cron executions. Default: 600 (10 min).

In standalone mode, you run the cron file directly via system crontab:

```
* * * * * php /path/to/whmcs/modules/addons/puq_proxmox_kvm/cron.php
```

# Cron Tasks

Task	Default Interval	Description
Process Virtual Machines	1 min	Deploys new VMs, processes change_package, refreshes DNS
Remove Old Snapshots	5 min	Deletes snapshots past their configured lifetime
Restore Backup Status	1 min	Checks completion of backup restore operations
Now Backup Status	1 min	Checks completion of manual backup operations
Schedule Backup	5 min	Runs scheduled automatic backups
Collecting Statistics	60 min	Collects network usage metrics for billing

- Set interval to **0** to disable a task
- **Lock Timeout** — maximum time a cron lock is held before considered stale (default: 600s)

# CLI Tools

```
whmcs-dev-puq-pl@hestiacp-test:/home/ruslan$ php /home/whmcs-dev-puq-pl/web/whmcs-dev.puq.pl/public_html/modules/addons/puq_proxmox_kvm/cron.php --help
PUQ Proxmox KVM - Standalone Cron

Usage:
php cron.php                Run all tasks (with interval checks)
php cron.php --task=processVirtualMachines  Run single task (skip interval check)
php cron.php --force        Run all tasks (skip interval checks)
php cron.php --list         Show tasks status
php cron.php --no-lock      Run without lock file (debug)
php cron.php --help         Show this help

Available tasks:
processVirtualMachines - Process Virtual Machines (default: 1m)
removeOldSnapshots - Remove Old Snapshots (default: 5m)
restoreBackupStatus - Restore Backup Status (default: 1m)
nowBackupStatus - Now Backup Status (default: 1m)
scheduleBackup - Schedule Backup (default: 5m)
collectingStatistics - Collecting Statistics (default: 60m)
```

The standalone cron file supports command-line arguments:

```
# Run all tasks
php cron.php

# Run specific task
php cron.php --task=processVirtualMachines
```

```
# Force run (ignore intervals)
```

```
php cron.php --force
```

```
# List tasks and their status
```

```
php cron.php --list
```

```
# Show help
```

```
php cron.php --help
```

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