

# Description

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## Preface

Starting with version 1.3 **ProxmoxKVM WHMCS module**, integrates with the **PUQ Customization WHMCS Addon (FREE)** for a thinner tuning of parameters and configurations.

Check out the PUQ Customization WHMCS Addon

<https://doc.puq.info/books/puq-customization-whmcs-addon>

<https://download.puqcloud.com/WHMCS/addons/PUQ-Customization/>

The module allows your customers to provision and manage KVM machines using the Proxmox server or Proxmox cluster.

The module allows you to manage virtually all functions available in Proxmox directly from the WHMCS panel without going to the Proxmox panel. This greatly simplifies and facilitates customer account management, improves customer satisfaction and reduces the number of support requests.

To work properly, the module requires a previously configured and working Proxmox server or Proxmox cluster (we have prepared [detailed instructions here](#)) and, apart from other requirements, also the available IP address range

The module is intended for advanced users, because the installation and correct configuration requires knowledge and experience in the management and configuration of servers and the network. Although the instructions are detailed and allow the module to be installed by an intermediate user, we suggest that when installing the module, follow the order in the installation documentation.

For technical reasons, the module will not support LVM-based storage(Due to the fact that they do not use in the cluster as a shared storage).

We provide installation service in two variants: module installation and configuration and full implementation. Please [look here](#) for details. You can [order service here](#).

The module, fully installed and correctly implemented in the system, offers the following functionalities.

## Module Functions:

- Automatic creation of a KVM virtual machine
- Service suspend and unsuspend function
- Service termination function. Removes a virtual machine and all dependencies associated with it. Adds a note on the product details page in WHMCS admin panel with the date and IP address that was used by this virtual machine.
- Automatically adds additional disk to a virtual machine if an additional disk is configured in the product configuration (It is possible to provision VM with two separately configured disks - a system booting one and second one).
- Automatically configures virtual machine parameters such as:
  - the number of CPU processor cores,
  - RAM,
  - disk bandwidth limits such as megabytes per second and the number of I/O operations,
  - network card bandwidth limits.
  - IPv4 and IPv6
  - DNS records forward and reverse
- Module supports multilingualism (**Arabic, Azerbaijani, Catalan, Chinese, Croatian, Czech, Danish, Dutch, English, Estonian, Farsi, French, German, Hebrew, Hungarian, Italian, Macedonian, Norwegian, Polish, Romanian, Russian, Spanish, Swedish, Turkish, Ukrainian**)
- Automatically selects an available IP address from a list of IP addresses provided during initial module installation and configuration.
- Automatically configures the virtual machine system user and password which is then sent by email to customer.
- Automatically adds rules to the firewall that allow you to avoid spoofing the IP address of the virtual machine.
- Configures the *cloud-init* device to auto-configure the virtual machine.
- Snapshot and backup management. Admin can define options for its clients. *The number of snapshots and backups is configured by additional options to the product, and if it is not specified or set to zero, then the function of snapshots and backup will not be available to the client.*

- Managing forward and reverse zone DNS records - system prepares detailed information with the DNS zone data in the ticket and by providing an endpoint URL address that you can use for automation
- Integrated noVNC WEB console for KVM access
- Implemented the function of reinstalling the operating system with the ability to change the operating system to another.
- The function of resetting the operating system (root) password has been implemented in client and admin panel.
- Statistics on the use of virtual machine resources in the form of graphs (CPU, RAM, disk, network). Real-time metric data are imported from hypervisor.
- Under certain conditions, you can change the virtual machine's identifier to a specific service (the machine with the given identifier must be created on the Proxmox server / cluster and not be connected to any other service). This can be useful when you want to attach existing machines to a module. Machines added in this way may not have all management options
- The function of mount an ISO image to a virtual machine has been implemented.
- We have prepared templates for the most common distributions but You can create additional ones - we provide brief requirements later in this guide.
- Module allows when the virtual machine template has 2 disks that can be stored on different network storages. For example, the system disk of the virtual machine is stored on the fast storage, and an additional disk is stored on the slow storage, designed for backups inside the virtual machine.
- For ISO images, you can use another network storage
- Configurable Option (Backups/Snapshots/CPU/RAM/IPv4/IPv6)

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WHMCS minimal version: 8 +

Minimal Proxmox version: 7 +

## Screenshots



★ Overview

- Information
- Charts
- Reinstall
- Snapshots
- Backups
- Reset password
- revDNS configure
- ISO mount

🔧 Actions

- Upgrade/Downgrade
- Upgrade/Downgrade Options
- Request Cancellation



KVM 10GB  
proxmox

ACTIVE

Upgrade

Request  
Cancellation

Registration Date

Tuesday, July 11th, 2023

First Payment Amount

100.50 zł

Recurring Amount

76.50 zł

Billing Cycle

Monthly

Next Due Date

Friday, August 11th, 2023

Payment Method

Bank Transfer

Manage

Configurable Options



Start



Stop



noVNC



Charts



Status

running (Uptime: 0 days 02:19:45)



CPU (1.94% of 1CPU)

98.06%



RAM (0.5275 GiB of 1 GiB)

52.75%

47.25%



System disk

10 GiB | Read/Write : 100/100 MB/s | 500/500 ops/s



Network adapter

(6E:94:32:8F:76:58) Read/Write : 12/12 MB/s

Network configuration

IPv4: 77.87.125.225/25 (real-8-4909.vps.uuq.pl)

IP 77.87.125.225/25

GW 77.87.125.129

DNS 77.87.125.10  
77.87.125.20

IPv6: 2a11:ff00:0000:0000:0000:0000:0215/120 (real-8-4909.vps.uuq.pl)



Reinstall



Snapshots



Backups



Reset password



revDNS



ISO

★ Overview

Information

Charts

Reinstall

Snapshots

Backups

Reset password

revDNS configure

ISO mount

Actions

Upgrade/Downgrade

Upgrade/Downgrade Options

Request Cancellation

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Last hour

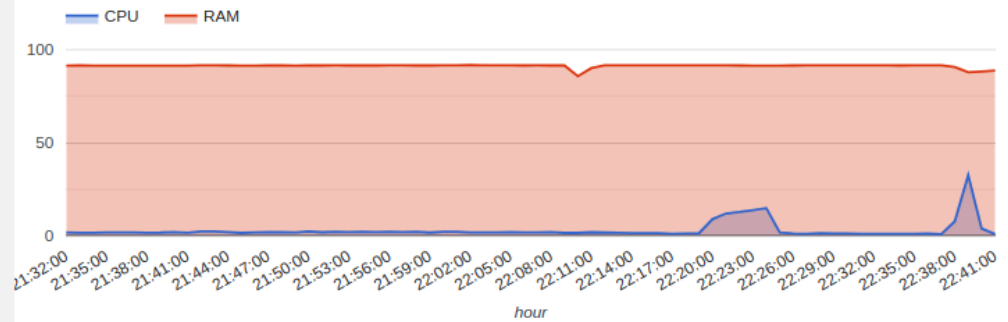
Last day

Last week

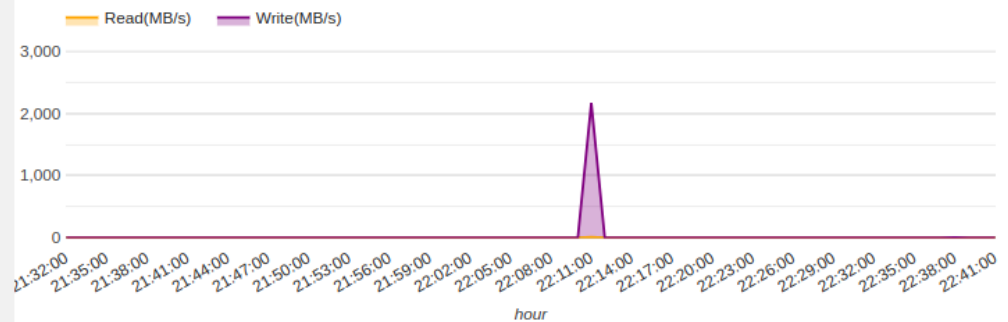
Last month

Last year

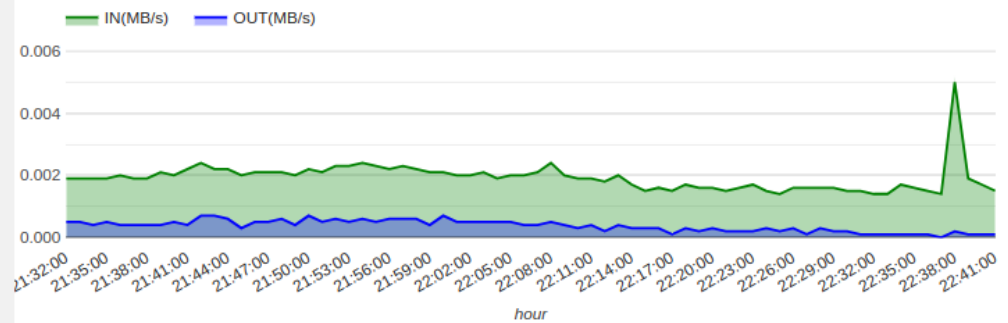
Usage charts



Disk usage



Network usage



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You are in the area of reinstalling the virtual machine.  
You must be aware of what you will do here.

Reinstalling the virtual machine, completely remove all data on all disks of the virtual machine, all snapshots will also be deleted.

Select operating system

Ubuntu-20.04

To protect against accidental reinstallation.  
Please enter the word: **reinstall** In capital letters.

↺ Reinstall

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# Snapshots: 3/3

Successfully

Snapshot description

📷 Take Snapshot



**Update2** (04-03-2023 22:58:10)  
Will be automatically removed after: **0 days 23:59:57**

↺ Rollback

🗑 Remove



**Update** (04-03-2023 22:57:58)  
Will be automatically removed after: **0 days 23:59:45**

↺ Rollback

🗑 Remove



**test** (04-03-2023 22:57:48)  
Will be automatically removed after: **0 days 23:59:35**









↺ Rollback

🗑 Remove





## ★ Overview

-  Information
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## Actions

- Upgrade/Downgrade
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# Backups: 10/10


Sunday	<input checked="" type="checkbox"/>	(13:50)
Monday	<input checked="" type="checkbox"/>	(21:50)
Tuesday	<input checked="" type="checkbox"/>	(09:00)
Wednesday	<input checked="" type="checkbox"/>	(05:50)
Thursday	<input checked="" type="checkbox"/>	(10:20)
Friday	<input checked="" type="checkbox"/>	(14:10)
Saturday	<input checked="" type="checkbox"/>	(12:30)











*If the schedule is configured, the system will automatically create backups and delete old backups. On this screen, you can configure the settings related to the backup schedule. Note that the settings on this screen affect which copies will be restored. If you have 3 available backups, setting a daily backup schedule will make the oldest backup you can recover from 3 days ago. If, on the other hand, you set the schedule for one day a week, then with 3 backup spaces, the oldest backup will be 3 weeks old. Take a moment to do this and think about what will be best for you.*

[Save Schedule](#)

## Backups notes

[Backup now](#)

 In the case of a backup restore, all snapshots of Virtual Machine will be deleted

	04-03-2023 22:19:20 qqq	<a href="#">Restore</a>	<a href="#">Remove</a>
	03-03-2023 14:20:06 Scheduler: 2023-03-03	<a href="#">Restore</a>	<a href="#">Remove</a>
	02-03-2023 10:30:06 Scheduler: 2023-03-02	<a href="#">Restore</a>	<a href="#">Remove</a>
	01-03-2023 06:00:06 Scheduler: 2023-03-01	<a href="#">Restore</a>	<a href="#">Remove</a>
	28-02-2023 09:10:06 Scheduler: 2023-02-28	<a href="#">Restore</a>	<a href="#">Remove</a>
	27-02-2023 22:00:06 Scheduler: 2023-02-27	<a href="#">Restore</a>	<a href="#">Remove</a>
	26-02-2023 14:00:07 Scheduler: 2023-02-26	<a href="#">Restore</a>	<a href="#">Remove</a>
	25-02-2023 12:40:06 Scheduler: 2023-02-25	<a href="#">Restore</a>	<a href="#">Remove</a>
	24-02-2023 14:20:06 Scheduler: 2023-02-24	<a href="#">Restore</a>	<a href="#">Remove</a>
	23-02-2023 10:30:07 Scheduler: 2023-02-23	<a href="#">Restore</a>	<a href="#">Remove</a>

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- Information
- Charts
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- Snapshots
- Backups
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- Upgrade/Downgrade Options
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**The password reset procedure will work if the packages that are responsible for the operation of cloud-init have not been removed from the virtual machine**

**i** If the reset procedure was successful, but the password was not changed, you need to connect to the virtual machine use the noVNC console, boot in safe mode and change the password yourself

[Reset password](#)

Powered by WHMCompleteSolution

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## Reverse DNS record

**i** Changing a DNS record does not happen instantly. For a DNS record to work properly, it takes between 1 and 8 hours for the DNS servers to synchronize the record

77.87.125.225

2a11:ff00:0000:0000:0000:0000:0215

[Save](#)

Powered by WHMCompleteSolution



## ★ Overview

[Information](#)
[Charts](#)
[Reinstall](#)
[Snapshots](#)
[Backups](#)
[Reset password](#)
[revDNS configure](#)
[ISO mount](#)

## 🔧 Actions

[Upgrade/Downgrade](#)
[Upgrade/Downgrade Options](#)
[Request Cancellation](#)

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# Mounted

## CentOS-Stream-8-x86\_64-20220831-boot.iso

[Umount](#)

### ▼ CENTOS



CentOS-Stream-8-x86\_64-20220831-boot.iso

[Mount](#)


CentOS-7-x86\_64-Minimal-2207-02.iso

[Mount](#)

### ▶ DEBIAN

### ▶ FEDORA

### ▶ FREENAS

### ▶ GPARTED

### ▼ OPENSUSE



openSUSE-Leap-15.4-NET-x86\_64-Build243.2-Media.iso

[Mount](#)

### ▼ PROXMOX



proxmox-ve\_7.2-1.iso

[Mount](#)


proxmox-ve\_6.4-1.iso

[Mount](#)


proxmox-ve\_6.3-1.iso

[Mount](#)


proxmox-ve\_6.2-1.iso

[Mount](#)


proxmox-mailgateway\_7.1-1.iso

[Mount](#)


proxmox-backup-server\_2.2-1.iso

[Mount](#)


proxmox-backup-server\_1.0-1.iso

[Mount](#)

### ▶ TRUENAS

### ▶ UBUNTU

### ▶ VIRTIO

### ▶ OTHER

Summary

Profile

Users

Contacts

Products/Services

Domains

Billable Items

Invoices

Quotes

Transactions

Tickets

Emails

Notes (0)

Log

KVM 2/2/10 real IP - real-1-4843.vps.uuq.pl

Go

+ New Addon

More

Order # 257 - View Order

Product/Service

KVM 2/2/10 real IP

Server

proxmox-test.uuq.pl (2/200 Accounts)

Domain

real-1-4843.vps.uuq.pl

Dedicated IP

77.87.125.208

Username

root

Password

SnikaSD33eDNA

Status

Active

Backup

10 backups

Snapshot

3 snapshot

Operating system

Debian-11.4

Create

Suspend

Unsuspend

Terminate

Change Package

Start

Stop

\*\*Reinstall

VMSetDedicatedip->

VMClone->

\*\*Set CPU RAM->

\*Set System Disk Size->

\*Set System Disk Bandwidth->

\*Set Created Additional Disk->

\*Set Additional Disk Size->

\*Set Additional Disk Bandwidth->

\*Set Network->

\*Set Firewall->

\*\*SetCloudinit

\*\*VMRemove

VM id

2000

Set new VM id for service

The virtual machine must be created and not used by another service.

Reverse DNS

real-1-4843.vps.uuq.pl

API Connection status

API answer OK

Function buttons

noVNC

Connect

Reload...

Status

running (Uptime: 47 days 12:44:44) ( VM local status: ready )

Node

proxmox-test

CPU usage

0.47% of 2CPU(s)

Memory usage

88.63% (1.7726 GiB of 2 GiB)

System disk

virtio0 : NFS:2000/vm-2000-disk-0.qcow2

System disk real limits

10 GiB | Read/Write : 100/100 MB/s | 500/500 ops/s

System disk package limits

10 GiB | Read/Write : 100/100 MB/s | 500/500 ops/s

Network adapter

virtio (3A:DC:1F:07:32:11)

Network adapter real

Read/Write : 12/12 MB/s | Bridge: vmbr0 | Vlan: 0

Network adapter package

Read/Write : 12/12 MB/s | Bridge: vmbr0 | Vlan: 0

Get charts hour

Get charts day

Get charts week

Get charts month

Get charts year

Usage charts

CPU

RAM

Disk usage

Read(MB/s)

Write(MB/s)

Network usage

IN(MB/s)

OUT(MB/s)

Addons

No Records Found

Revision #32

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