

# Admin Area

- [Product Home Screen](#)
- [Module Command buttons](#)
- [Product Configuration](#)
- [Configurable Option \(Operating system selection\)](#)
- [Configurable Option \(Backups/Snapshots/CPU/RAM/IPv4/IPv6\)](#)
- [IPv4/IPv6 Pools](#)
- [DNS Zones Synchronization](#)

# Product Home Screen

## ProxmoxKVM module **WHMCS**

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The main screen of the product contains the following items.

- Module Command buttons of the module for managing the service and the virtual machine
- Section with the id of the virtual machine and a button for setting a new ID
- Connection API status to PROXMOX server
- Button to connect to the noVNC server console
- The section in which in real time with an update of 1 time for 5 seconds the parameters and stars of the virtual machine are shown
- Section with graphs with virtual machine statistics

Client Profile

Ruslan Poloviy (TEST sp. z o. o.) - #1 Company with VAT ID (PL) | Home company: DE-PUQ sp. z o.o. (DE) | TAX: Rule #1 (DE-VAT: 0%) | VIES Status: Valid (2023-07-07 11:57:18) | Exempt from tax: YES

Fraudrecord: 0-0-0-0 | Fraud IP: 100% | Fraud Email: NO | Check Now (2023-07-07 11:57:18) | View All Data | Send Report

Summary Profile Users Contacts Products/Services Domains Billable Items Invoices Quotes Transactions Tickets Emails Notes (0) Log

KVM 10GB - real-1-4809.vps.uuq.pl Go + New Addon More

Order # 283 - View Order

Product/Service KVM 10GB

Server proxmox-test.uuq.pl-public (04/200 Accou

Hostname real-1-4809.vps.uuq.pl

Dedicated IP 77.87.125.224

Username root

Password KPZjK8hGX

Status Active

Assigned IPs  
2a11:f00:0000:0000:0000:0000:0202  
2a11:f00:0000:0000:0000:0000:0203  
2a11:f00:0000:0000:0000:0000:0204  
2a11:f00:0000:0000:0000:0000:0205

Nameserver 1

Nameserver 2

Backup 10 backups

Snapshot 3 snapshot

Operating system Debian-12

IPv4 1 IPv4

IPv6 10 IPv6

Processor 1 Core

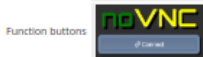
Memory 1 GB

Module Commands  
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 2004 Set new VM id for service The virtual machine must be created and not used by another service.

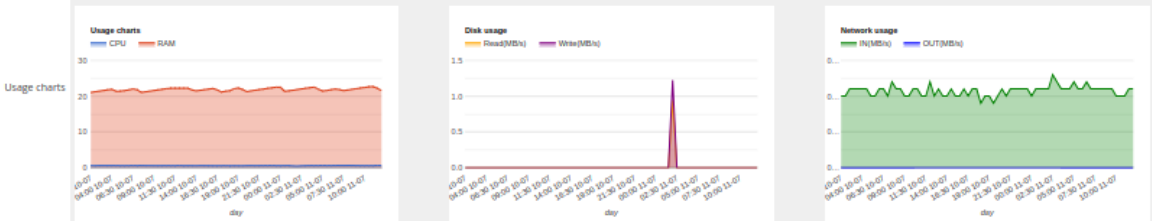
Reverse DNS  
77.87.125.224 real-1-4809.vps.uuq.pl1  
2a11:f00:0000:0000:0000:0000:0202 real-1-4809.vps.uuq.pl2  
2a11:f00:0000:0000:0000:0000:0203 real-1-4809.vps.uuq.pl3  
2a11:f00:0000:0000:0000:0000:0204 real-1-4809.vps.uuq.pl4  
2a11:f00:0000:0000:0000:0000:0205 real-1-4809.vps.uuq.pl5  
2a11:f00:0000:0000:0000:0000:0206 real-1-4809.vps.uuq.pl6  
2a11:f00:0000:0000:0000:0000:0207 real-1-4809.vps.uuq.pl7  
2a11:f00:0000:0000:0000:0000:0208 real-1-4809.vps.uuq.pl8  
2a11:f00:0000:0000:0000:0000:0209 real-1-4809.vps.uuq.pl9  
2a11:f00:0000:0000:0000:0000:020a real-1-4809.vps.uuq.pl10  
2a11:f00:0000:0000:0000:0000:020b real-1-4809.vps.uuq.pl11

API Connection status API answer OK



Info on real time  
Refreshed...  
Status running (Uptime: 2 days 12:03:13) ( VM local status: ready )  
Node proxmox-test  
CPU usage 0.72% of 2CPU(s)  
Memory usage 21.7% (0.434 GiB of 2 GiB)  
System disk virtio0 : local-vmcwm-2004-disk-0  
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 (26:D4:C4:06:8C:38)  
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



# Module Command buttons

## ProxmoxKVM module **WHMCS**

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## Status concepts.

### Remote status

The status of the virtual machine as returned by the **PROXMOX** server.

May be: **running/stopped**

### VM remote lock

May be: **clone/backup**

### Local status

The status is internal, to control and select automation actions using the module.

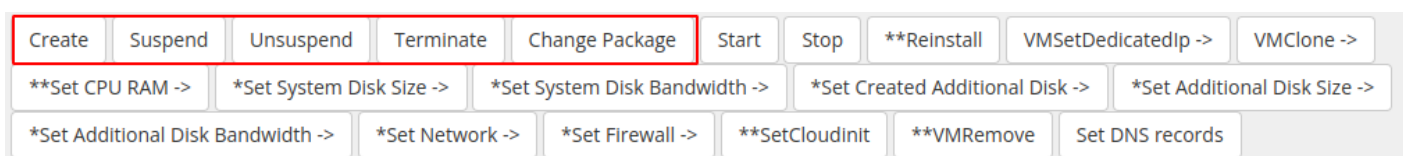
The local state can take the following values:

- **creation** - the first status issued at the time of service creation. Indicates that the virtual machine creation process should start
- **reinstall** -status if the reinstallation process is running and the virtual machine is in the reinstallation queue
- **clone** - the process of cloning a virtual machine from a template
- **set\_cpu\_ram** - the process of configuring the number of processor cores and RAM memory was successful
- **set\_system\_disk\_size** - the process of creating the size of the system disk has completed successfully
- **set\_system\_disk\_bandwidth** - the process of configuring system disk bandwidth limits was successful
- **set\_created\_additional\_disk** - the process of creating an additional disk is successful. Also if the additional disk is not present in the package configuration
- **set\_additional\_disk\_size** - the process of creating the size of the additional disk has completed successfully. Also if the additional disk is not present in the package

configuration

- **set\_additional\_disk\_bandwidth** - the process of configuring additional disk bandwidth limits was successful. Also if the additional disk is not present in the package configuration
- **set\_network** - network card configuration (vlan, bridge) completed successfully
- **set\_firewall** - firewall rules added successfully
- **set\_cloudinit** - cloud init configuration successful
- **ready** - the status characterizes that the virtual machine was created correctly and is ready to work
- **set\_dns\_records** - means that the next time the crontab is executed, DNS records will be synchronized
- **change\_package** - means that the next time you run crontab, the settings of the virtual machine will be changed, such as (disk, ram, processor, IP)

## Standard Module Command buttons



### Create

This function runs when a new product is provisioned. This can be initiated by WHMCS upon checkout or Client making payment for a new order. Also, it can be initiated by an admin user from the Products/Services tab in a client's profile of the admin area.

#### General algorithm of action:

1. An available IP address is selected from the list in the server settings.
2. The available virtual machine ID is selected in such a way that it is unique in the WHMCS system and Proxmox server
3. The fields with the domain name and the name of the virtual machine are generated and filled. The procedure uses the data supplied in the virtual machine package.
4. Start the process of cloning a virtual machine from the desired virtual machine template.

#### All other functions for creating a virtual machine will be implemented by a cron task

Terminated service IP addresses are also taken into account and can be assigned to a new service.

## Suspend

This function runs when a suspension is requested. It can be requested automatically by the WHMCS Cron when a product becomes overdue, or by admin user in the Client Profile.

**Makes the virtual machine stop if the virtual machine is powered on.**

## Unsuspend

This function runs when an unsuspension is requested. It can be requested upon payment of an overdue invoice for a product.

**Makes the virtual machine start if the virtual machine is powered off.**

## Terminate

This function runs when a termination is requested. It can be automatically requested by the WHMCS Cron for long overdue products when enabled (Automation Settings). It can be also requested by an admin user in the Client Profile.

### **General algorithm of action:**

1. Deletes all backups and snapshots of the virtual machine.
2. Makes the machine virtual stop if the virtual machine is powered on.
3. Then it deletes the virtual machine.
4. Adds information with the date and IP address to the admin notes on the client service.
5. Returns the machine's used IP address back to the pool of free useable IP addresses.
6. Cleans up data.

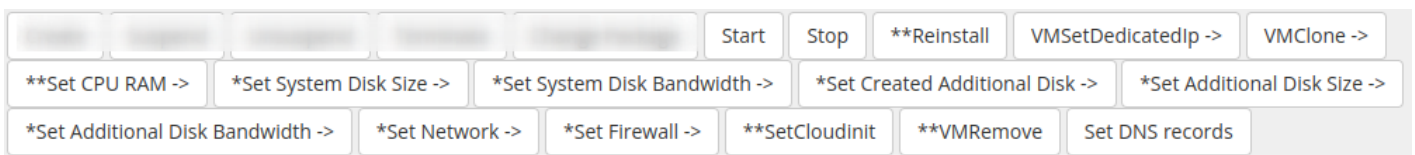
## Change Package

This function runs during procedure of upgrading or downgrading products. This function runs when an upgrade or downgrade order, placed by the client, becomes paid. Admins can also invoke this from the product management pages. The same function runs for upgrades and downgrades of both products and configurable options.

## General algorithm of action:

1. Makes the virtual machine stop if the virtual machine is powered on.
2. Changes the parameters of the virtual machine to the parameters specified in the package.
3. Makes the start of the virtual machine.

# Additional Module Command buttons



All possible actions available to be performed in the admin panel have short symbols that will help you understand the consequences of the action.

\* - It is possible to run a function with which will do actions on the virtual machine in the **running** state.

\*\* - It is possible to run only if the virtual machine is in the **stopped** state

-> - means that this function participates in the automatic creation of the virtual machine and points to the next function that must be run to correctly complete the creation of the virtual machine.

## Start

Starts the virtual machine if the virtual machine is in the **stopped** state and the local state is **ready**

## Stop

Stops the virtual machine if it is in the **running** state

## Reinstall

Starts the process of reinstalling the virtual machine

## VMSetDedicatedIp

An available IP address is selected from the list in the server settings. Terminated service IP addresses are also taken into account and can be assigned to a new service.

## VMClone

Starts the process of cloning a virtual machine from the desired virtual machine template.

### **\*\*Set CPU RAM**

Forces configuration of the processor and memory settings of the virtual machine relative to the package configuration.

### **\*Set System Disk Size**

Forces the size of the system disk according to the parameters in the package

### **\*Set System Disk Bandwidth**

Forces system disk bandwidth settings according to packet settings.

### **\*Set Created Additional Disk**

Creates an additional virtual machine disk if configured accordingly in the package

### **\*Set Additional Disk Size**

Forces the size of the additional disk relative to the parameters in the package, if needed

### **\*Set Additional Disk Bandwidth**

Forces additional disk bandwidth settings relative to packet settings, if needed

### **\*Set Network**

Forces configuration of network card parameters such as bridge VLAN and bandwidth relative to the parameters in the packet

### **\*Set Firewall**

Adds rules to the firewall. DOES NOT REMOVE OLD.

### **\*\*SetCloudinit**

Forces *cloud-init* device settings to be configured relative to the settings in the package.

### **\*\*VMRemove**

Delete the virtual machine. Leaves backups and does not delete unused disks.



## Set DNS records

DNS records will be synchronized immediately and before completion. May be busy for a long time.

# Product Configuration

## ProxmoxKVM module **WHMCS**

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### Add new product to WHMCS

System Settings->Products/Services->Create a New Product

In the **Module settings** section, select the "**PUQ ProxmoxKVM**" module

Module SettingsCustom FieldsConfigurable OptionsUpgradesFree DomainCross-sellsOtherLinks

Module NamePUQ Proxmox KVM

Server GroupPROXMOX

License key

A pre-purchased license key for the "PUQ ProxmoxKVM" module. For the module to work correctly, the key must be active

License keyNBH2UL-XXXXXXXXXX-XGRELF  
success: 2022-09-18T08:56:18+02:00

VM configuration

OS username:  
If not filled it will be random.  
real

VM name prefix:  
The vm name prefix will be added to the virtual machine name.  
VM name: <prefix>-<client\_id>-<service\_id>  
2000

First vm id:  
ID from which to start searching for a free id for a new virtual machine  
1 day  
Snapshots lifetime: After how many days will snapshots be removed automatically

Type of virtual machine creation

Full Clone  
Full Clone - many times more time for deployment.  
Linked clone VM requires less disk space but cannot run without access to the base VM Template

System disk

The system disk of the virtual machine. The one from which the machine boots.  
Disk space: 10 GB  
Read: 100 MB/s  
Write: 100 MB/s  
Read: 500 ops/s

Additional disk

Disk space: 0 GB  
Read: 0 MB/s  
Write: 0 MB/s  
Read: 0 ops/s  
Write: 0 ops/s  
0 - means that the parameter will not be changed during the creation of the virtual machine.

Network configuration

Network model: vmx  
Automatic selection bridge/vlan:  
Ignores on automatic selection  
Network bridge: vmbr0  
Vlan: 0  
Ignores on automatic selection

Type of virtual machine creation

Full Clone ▾

**Full Clone** - many times more time for deployment.  
**Linked clone** VM requires less disk space but cannot run without access to the base VM Template

## Target node

The node in the cluster on which the virtual machine should be created. If you select the automatic option or the node was unavailable at the time the virtual machine was created, the module will actually select the node with the most real free RAM (not a percentage, but the most free RAM numerically).

If a specific node is selected manually, the module does not check the available RAM in any way.

Target node

automatically ▾



## Default OS template

Sets the default operating system template. In cases where the template chosen by the client is not available, or if the options with the choice of the operating system are not configured, this template will be used.

Default OS template

Debian-11.4 ▾



## Backups storage

Data store for backups of virtual machines

If you are using a cluster, then you need to have this data store on a network protocol, such as NFS.

Backups storage

Local|dir ▾



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## ISO's storage

Data store for ISO images

If you are using a cluster, then you need to have this data store on a network protocol, such as NFS.

ISOs storage

Local

▼

↺

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## VM configuration

Basic configuration settings for the virtual machine

VM configuration

**Virtual machine configuration**

CPU:

4

RAM:

4

GB

OS username:

root

If not filled it will be random.

vps

VM name prefix:

The wm name prefix will be added to the virtual machine name.  
VM name: <prefix>-<client\_id>-<service\_id>

First vm id:

300

ID from which to start searching for a free id for a new virtual machine

Snapshot lifetime:

1 day

▼

After how many days will snapshots be removed automatically

**CPU** - number of CPU cores for a new machine

**RAM** - amount of RAM for a new machine

**OS username** - The user that will be configured in the virtual machine settings will be transferred to the client and will appear in the password change

Depending on cloud-init settings in the template. If there is a root user in the template and you also enter root in the service configuration in WHMCS, a password for the root user will be generated when creating the VM. If you enter another user name in this window (but the template does not contain one), it will be created when the machine is created and the password will be sent to the client.

**VM name prefix:** The VM name prefix will be added to the virtual machine name.

VM name: <prefix>-<client\_id>-<service\_id>

**First vm id:** ID from which to start searching for a free id for a new virtual machine

**Snapshot lifetime:** After how many days will snapshots be removed automatically

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## System disk

The system disk is determined by the one that is assigned to the first boot in the virtual machine or template.

System disk options. The system drive is the drive on which the system is installed. Limitations are possible both in terms of bandwidth in megabytes per second, as well as restrictions on the number of I/O operations.

Please note that the size of the system disk must be greater than or equal to the size of the system disk in the template.

System disk

The system disk of the virtual machine. The one from which the machine boots.

Disk space:	<input type="text" value="20"/>	GB
Read:	<input type="text" value="100"/>	MB/s
Write:	<input type="text" value="100"/>	MB/s
Read:	<input type="text" value="500"/>	ops/s
Write:	<input type="text" value="500"/>	ops/s

*0 - means that the parameter will not be changed during the creation of the virtual machine.*

## Additional disk

The additional drive is the second drive in the virtual machine or template that is not assigned to the first boot option.

*If an additional disk is not created in the virtual machine template, it will be created automatically on the same storage as the system disk. If you need an additional disk on a different storage than the system disk, it must be then created in the virtual machine template on the required storage.*

Additional disk options. Limitations are possible both in terms of bandwidth in megabytes per second, as well as restrictions on the number of I/O operations.

If the disk is not in the template, or at the moment of changing the package, the disk will be automatically created with the interface of the system disk.

Disk space:	<input type="text" value="50"/>	GB
Read:	<input type="text" value="100"/>	MB/s
Write:	<input type="text" value="100"/>	MB/s
Read:	<input type="text" value="100"/>	ops/s
Write:	<input type="text" value="100"/>	ops/s

*0 - means that the parameter will not be changed during the creation of the virtual machine.*

Additional disk

## Network configuration

The section in which you must specify the parameters of the network virtual machine map.

#### Network configuration

Network model:	<div>As in template</div>	
Automatic selection bridge/vlan:	<input checked="" type="checkbox"/> Automatically selects a free IP address from the list in the server configuration or IP pools	
Network bridge:	<div>vmbr0</div>	Ignored on automatic selection
Vlan:	<div>25</div>	Ignored on automatic selection
Bandwidth:	<div>10</div>	MB/s
DHCP IPv4:	<input type="checkbox"/>	
DHCP IPv6:	<input type="checkbox"/>	
Firewall:	<input type="checkbox"/>	
Anti spoofing rules:	<input type="checkbox"/> Will not be in case of DHCP	

*0 - means that the parameter will not be changed during the creation of the virtual machine.*

**Network model** - The network card model of the virtual machine

**Automatic selection bridge/VLAN** -When creating a virtual machine, the IP address will be selected automatically from the list of available IP addresses from the PROXMOX server parameter or IP Pools added in the WHMCS system. Regarding the selected IP address, the network card, bridge and vlan will be configured.

**Network bridge, VLAN** - If you do not use the Automatic selection, bridge/VLAN. You need to select bridge and VLAN. The IP address will be selected from the list of IP addresses available in this bridge and VLAN in the PROXMOX server address list settings in the WHMCS system.

**DHCP IPv4** - Whether to use a DHCP server. The IP address will not be selected from the list in the PROXMOX server in the WHMCS system. In this case, firewall rules won't be applied as we don't know IP address.

**DHCP IPv6** - Whether to use a DHCP server. The IP address will not be selected from the list in the PROXMOX server in the WHMCS system. In this case, firewall rules won't be applied as we don't know IP address.

**Firewall** - Enable firewall on the network card of the virtual machine. *Only works when DHCP is not used.*

**Anti spoofing rules** - *This option only works if you are not using a DHCP server.* It adds allowing rules for incoming and outgoing traffic with the IP address of the virtual machine.



For the correct operation of the firewall rules to avoid spoofing the IP address of the virtual machine, it is necessary to configure the firewall on the PROXMOX server, the firewall policy DENY/DENY.

**In order to manage pools of IPv4 and IPv6 IP addresses, you need to install the PUQ Customization addon module (free)**

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

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

<https://puqcloud.com/whmcs-addon-puq-customization.php>

## Integrations configuration

This section contains settings that are responsible for integrating the module with other systems.

Integrations configuration

noVNC WEB proxy server:	<input type="text" value="vncproxy.puqcloud.com"/>
noVNC WEB proxy key:	<input type="text" value="puqcloud"/> [a-z,A-Z]
	<input type="text" value="vps.uuq.pl"/>
Main domain:	<p>Enter in the format <b>.example.com</b> Needed to create a domain name for a virtual machine <b>Result:</b> &lt;prefix&gt;-&lt;client_id&gt;- &lt;service_id&gt;.example.com</p>
Revdns ticket:	<input checked="" type="checkbox"/> Creates a ticket in the system if the client has requested revDNS record change
RevDNS ticket department:	<input type="text" value="General Enquiries"/> ▼

**noVNC WEB proxy server, noVNC WEB proxy key** - VNCPROXY server settings. VNCPROXY and noVNC are used to enable the client to connect to the virtual machine console (Keyboard, Video, Mouse).

How to set up a VNCPROXY server is described in <https://doc.puq.info/books/proxmoxkvm-whmcs-module/page/install-vncproxy-and-novnc>

For your comfort we provide our public VNCPROXY server with noVNC client. You can use it freely, but we strongly recommend creating your own VNCPROXY server with noVNC client

noVNC WEB proxy server: **vncproxy.puqcloud.com**

noVNC WEB proxy key: **puqcloud**

**Main domain** - The domain that you use to present the virtual machine. In the WHMCS system, the domain column on the client's product will be filled in the format <prefix>-<client\_id>-<service\_id>.<Main domain>. Also, this parameter will be specified as "search" in the virtual machine in the /etc/resolv.conf file.

**Revdns ticket/RevDNS ticket department** - In case you haven't created a reverse DNS zone record integration. The module can create a ticket when the client changes the reverse zone entry in the settings. You will have to manually process the request.

How you can integrate DNS zone records with your DNS server is described here: <https://doc.puq.info/books/proxmoxkvm-whmcs-module/page/synchronization-of-dns-records>

## Email configuration

In this section, you need to select email templates that will be used by the module to communicate with the client.

Email configuration	VM is ready:	puqProxmoxKVM VM is ready ▼
	Reset password:	puqProxmoxKVM Reset password ▼
	Backup restored:	puqProxmoxKVM Backup restored ▼

**VM is ready** - This email will be sent each time a virtual machine is created. In case of creation and in case of reinstallation. In this email, the client will receive a login and password to access

the virtual machine system.

**Reset password** - This email will be sent to the client every time the client uses the password reset function, the client will receive a login and password to access the virtual machine system.

**Backup restored** - This email will be sent to the client every time the client uses the restore virtual machine from backup function.

**Sample templates are available here:**

<https://doc.puq.info/books/proxmoxkvm-whmcs-module/page/email-template-puqproxmoxkvm-vm-is-ready>

<https://doc.puq.info/books/proxmoxkvm-whmcs-module/page/email-template-puqproxmoxkvm-reset-password>

<https://doc.puq.info/books/proxmoxkvm-whmcs-module/page/email-template-puqproxmoxkvm-backup-restored>

**Additionally:**

<https://doc.puq.info/books/proxmoxkvm-whmcs-module/page/email-template-puqproxmoxvkm-welcome-email>

<https://doc.puq.info/books/proxmoxkvm-whmcs-module/page/email-template-puqproxmoxkvm-upgrade-email>

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## Client configuration

In this section, you can configure the client's access rights to manage its virtual machine.

Client configuration

The permissions that will be active in the client area

Allow start:	<input checked="" type="checkbox"/>
Allow stop:	<input checked="" type="checkbox"/>
Allow noVLC console:	<input checked="" type="checkbox"/>
Allow charts:	<input checked="" type="checkbox"/>
Allow reinstall:	<input checked="" type="checkbox"/>
Allow reset password:	<input checked="" type="checkbox"/>
Allow revdns configure:	<input checked="" type="checkbox"/>
Allow ISO mount:	<input checked="" type="checkbox"/>

# Configurable Option (Operating system selection)

ProxmoxKVM module **WHMCS**


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In order for the client to have a choice of operating system in the configuration of the virtual machine. You need to configure the Configurable Option and connect them to the package.


## Create Group

Add new Configurable Option to WHMCS


System Settings->Configurable Option->Create a New Group

 Configuration


[General Settings](#)  
[Apps & Integrations](#)  
[Sign-In Integrations](#)  
[Automation Settings](#)  
[MarketConnect](#)  
[Notifications](#)  
[Storage Settings](#)  
[Application Links](#)  
[OpenID Connect](#)  
[Email Templates](#)  
[Addon Modules](#)  
[Client Groups](#)  
[Custom Client Fields](#)  
[Fraud Protection](#)

 Staff Management

[Administrator Users](#)  
[Administrator Roles](#)  
[Two-Factor Authentication](#)  
[Manage API Credentials](#)

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[Currencies](#)  
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[Tax Configuration](#)  
[Promotions](#)

 Products/Services

[Products/Services](#)  
[Configurable Options](#)  
[Product Addons](#)  
[Product Bundles](#)  
[Domain Pricing](#)  
[Domain Registrars](#)

## Configurable Option Groups

Configurable options allow you to offer addons and customisation options with your products.

 Create a New Group

 Duplicate a Group

Group Name
KVM-2/2/10
KVM-4/4/20
Operating system
VPS-WAW-WIN

**Enter the group name, description, and select the products you need.**

**Group Name:** Operating system

## Configurable Option Groups

Create a New Group

Group Name

Operating system

Description

Assigned Products

VPN Warszawa - VPN Warszawa 10M/10M/10GB

VPN Warszawa - VPN Warszawa 20M/20M/20GB

MinIO - MinIOS3 10 GB

Nextcloud - Nextcloud 10 GB

Synology - Synology 10 GB

proxmox - KVM 4/4/20

proxmox - KVM 2/2/10

proxmox - KVM 2/2/10 real IP

Save Changes

Back to Groups List

## Add Configurable Option

After saving, create a new Configurable Option

## Configurable Option Groups

Manage Group

Group Name

Operating system

Description

Assigned Products

WHMCS Module Reseller - WHMCS Module Reseller (1 year)

WHMCS Module MinIO S3 - WHMCS Module MinIO S3 (1 month)

WHMCS Module MinIO S3 - WHMCS Module MinIO S3 (1 year)

VPN Warszawa - VPN Warszawa 10M/10M/10GB

VPN Warszawa - VPN Warszawa 20M/20M/20GB

MinIO - MinIOS3 10 GB

Nextcloud - Nextcloud 10 GB

Synology - Synology 10 GB

proxmox - KVM 4/4/20

## Configurable Options

Add New Configurable Option

Option	Sort Order	Hidden
No Records Found		

Save Changes

Back to Groups List

## Price definitions

In this part of the settings, we define individual price lists for selected individual options.

We use the WHMCS standard and add the sign "|" to describe the individual options. The convention presented in our guide must be followed on the left side of the sign. To the right of the sign "|" we give the name that will be displayed in the views for the user (admin, client)

It is very important to enter the names of the options precisely, because they are also used to define the settings and any mistakes or typos will prevent the correct operation of the entire ordering process and starting the virtual machine.

## Option name

Option Name: **OS|Operating system**

You can replace the name "**Operating system**" with your own, ie: My offered system.

It is important that the option name be started with the prefix "OS |"

## Options

The Options format is this: **template\_id|name of system** separated by "|"

You can replace the name "name of system" with your own, ie: Debian, Nextcloud, my system x etc.

**template\_id** is the number of a specific template machine uploaded to proxmox and recreated as template.

**It is important that the options be started with the prefix "template\_id |"**

Please look at this example - as options we have defined: *1010|Debian-10.12*.



We use that precise text string because we have deployed on Proxmox node/cluster template with VM\_ID: 1010 which is based on Debian 10 release.

Configurable Options

Option Name: OS | Operating system

Option Type: Dropdown

Options			One Time/ Monthly	Quarterly	Semi- Annual	Annual	Biennial	Triennial	Order	Hide
1010   Debian-10.12	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
	PLN	Setup	0.00	0.00	0.00	0.00	0.00	0.00		
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
1011   Debian-11.4	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
	PLN	Setup	0.00	0.00	0.00	0.00	0.00	0.00		
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
1020   Ubuntu-18.04	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
	PLN	Setup	0.00	0.00	0.00	0.00	0.00	0.00		
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
1021   Ubuntu-20.04	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
	PLN	Setup	0.00	0.00	0.00	0.00	0.00	0.00		
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		

# Configurable Option (Backups/Snapshots/CPU/RAM

ProxmoxKVM module **WHMCS**

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In order for the client to have a choice of Backups/Snapshotsin/CPU/RAM/IPv4/IPv6 the configuration of the virtual machine. You need to configure the Configurable Option and connect them to the package.








## List of available options

**It is important that the option name be started with the prefix "prefix|name" The prefix is required for the module to define the option. Name can be changed at will**

Demo Services - VPS 10 GB

Configurable Options

Add New Configurable Option

Option	Sort Order	Hidden	
CPU Processor	<input type="text" value="1"/>	<input type="checkbox"/>	 
RAM Memory	<input type="text" value="2"/>	<input type="checkbox"/>	 
ipv4 IPv4	<input type="text" value="3"/>	<input type="checkbox"/>	 
ipv6 IPv6	<input type="text" value="4"/>	<input type="checkbox"/>	 
B Backups	<input type="text" value="5"/>	<input type="checkbox"/>	 
S Snapshot	<input type="text" value="6"/>	<input type="checkbox"/>	 
OS Operating system	<input type="text" value="7"/>	<input type="checkbox"/>	 

[illegible][illegible]

**Option Name:** CPU|Processor -> **Options:** <count>|Name

Configurable Options

Option Name: CPU|Processor

Option Type: Dropdown

Options			One Time/ Monthly	Quarterly	Semi- Annual	Annual	Biennial	Triennial	Order	Hide
1 1 Core	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
2 2 Core	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
4 4 Core	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		

**Option Name:** RAM|Memory -> **Options:** <count>|Name

Configurable Options

Option Name: RAM|Memory

Option Type: Dropdown

Options			One Time/ Monthly	Quarterly	Semi- Annual	Annual	Biennial	Triennial	Order	Hide
1 1 GB	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
2 2 GB	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
4 4 GB	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		

**Option Name:** ipv4|IPv4 -> **Options:** <count>|Name

[illegible]

**Option Name:** ipv6|IPv6 -> **Options:** <count>|Name

[illegible]

**Option Name:** OS|Operating system -> **Options:** <template\_id>|Name

Configurable Options


Option Name: OS|Operating systemOption Type: Dropdown

Options			One Time/ Monthly	Quarterly	Semi- Annual	Annual	Biennial	Triennial	Order	Hide
1010 Debian-10.12	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	1010	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
1011 Debian-11.4	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	1011	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
1012 Debian-12	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	1012	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
1020 Ubuntu-18.04	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	1020	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
1021 Ubuntu-20.04	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	1021	<input type="checkbox"/>


## Option Group

### Add new Configurable Option to WHMCS


System Settings->Configurable Option->Create a New Group

 Configuration


[General Settings](#)  
[Apps & Integrations](#)  
[Sign-In Integrations](#)  
[Automation Settings](#)  
[MarketConnect](#)  
[Notifications](#)  
[Storage Settings](#)  
[Application Links](#)  
[OpenID Connect](#)  
[Email Templates](#)  
[Addon Modules](#)  
[Client Groups](#)  
[Custom Client Fields](#)  
[Fraud Protection](#)

 Staff Management

[Administrator Users](#)  
[Administrator Roles](#)  
[Two-Factor Authentication](#)  
[Manage API Credentials](#)

 Payments

[Currencies](#)  
[Payment Gateways](#)  
[Tax Configuration](#)  
[Promotions](#)

 Products/Services

[Products/Services](#)  
[Configurable Options](#)  
[Product Addons](#)  
[Product Bundles](#)  
[Domain Pricing](#)  
[Domain Registrars](#)

## Configurable Option Groups

Configurable options allow you to offer addons and customisation options with your products.

[+ Create a New Group](#)

[+ Duplicate a Group](#)

Group Name
KVM-2/2/10
KVM-4/4/20
Operating system
VPS-WAW-WIN

**Enter the group name, description, and select the products you need.**

**Group Name:** Backups/Snapshots

After saving, create a new Configurable Option

## Manage Group

Group Name	Backups/Snapshots
Description	
Assigned Products	<div>WHMCS Module Header - WHMCS Module Header (1 year)</div> <div>WHMCS Module MinIO S3 - WHMCS Module MinIO S3 (1 month)</div> <div>WHMCS Module MinIO S3 - WHMCS Module MinIO S3 (1 year)</div> <div>VPN Warszawa - VPN Warszawa 10M/10M/10GB</div> <div>VPN Warszawa - VPN Warszawa 20M/20M/20GB</div> <div>MinIO - MinIOS3 10 GB</div> <div>Nextcloud - Nextcloud 10 GB</div> <div>Synology - Synology 10 GB</div> <div>proxmox - KVM 4/4/20</div>

## Configurable Options

Add New Configurable Option

Option	Sort Order	Hidden
--------	------------	--------

No Records Found

Save Changes

Back to Groups List

# Price definitions

In this part of the settings, we define individual price lists for selected individual options.

We use the WHMCS standard and add the sign "|" to describe the individual options. The convention presented in our guide must be followed on the left side of the sign. To the right of the sign "|" we give the name that will be displayed in the views for the user (admin, client)

It is very important to enter the names of the options precisely, because they are also used to define the settings and any mistakes or typos will prevent the correct operation of the entire ordering process and starting the virtual machine.

# Backup definitions

Add an option with a choice of the number of backups



# Option name

Option Name: **B|Backup**

You can replace the name "**Backup**" with your own, ie: Sicherung, My backup offer etc..

It is important that the option name be started with the prefix "B|"

# Options

The Options format is this: **number\_of\_backups|name** separated by |

You can replace the name "name" with your own.

It is important that the options be started with the prefix "x |" where "x" represent number of allowed backup

Configurable Options

Option Name: B|Backup

Option Type: Dropdown

Options			One Time/ Monthly	Quarterly	Semi- Annual	Annual	Biennial	Triennial	Order	Hide
0  no backup	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
	PLN	Setup	0.00	0.00	0.00	0.00	0.00	0.00		
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
1  1 backup	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	2.00	0.00	0.00	0.00	0.00	0.00		
	PLN	Setup	0.00	0.00	0.00	0.00	0.00	0.00		
		Pricing	2.00	0.00	0.00	0.00	0.00	0.00		
2  2 backups	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	5.00	0.00	0.00	0.00	0.00	0.00		
	PLN	Setup	0.00	0.00	0.00	0.00	0.00	0.00		
		Pricing	5.00	0.00	0.00	0.00	0.00	0.00		
3  3 backups	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	15.00	0.00	0.00	0.00	0.00	0.00		
	PLN	Setup	0.00	0.00	0.00	0.00	0.00	0.00		
		Pricing	15.00	0.00	0.00	0.00	0.00	0.00		

# Snapshot definitions

Add an option with a choice of the number of snapshots

## Option name

Option Name: **S|Snapshot**

You can replace the name "**Snapshot**" with your own, ie: Fast Snapshots, personal Snapshot etc.

It is important that the option name be started with the prefix "**S**"

## Options

The Options format is this: **number\_of\_snapshot|name** separated by |

You can replace the name "name" with your own.

**It is important that the options be started with the prefix "x |" where "x" represent number of allowed snapshots**

Configurable Options

Option Name: S | Snapshot

Option Type: Dropdown

Options			One Time/ Monthly	Quarterly	Semi- Annual	Annual	Biennial	Triennial	Order	Hide
0   no snapshots	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
	PLN	Setup	0.00	0.00	0.00	0.00	0.00	0.00		
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
1   1 snapshot	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	0.50	0.00	0.00	0.00	0.00	0.00		
	PLN	Setup	0.00	0.00	0.00	0.00	0.00	0.00		
		Pricing	0.50	0.00	0.00	0.00	0.00	0.00		
2   2 snapshot	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	1.00	0.00	0.00	0.00	0.00	0.00		
	PLN	Setup	0.00	0.00	0.00	0.00	0.00	0.00		
		Pricing	1.00	0.00	0.00	0.00	0.00	0.00		
3   3 snapshot	EUR	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	1.50	0.00	0.00	0.00	0.00	0.00		

# IPv4/IPv6 Pools

## ProxmoxKVM module **WHMCS**

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Starting with version 1.3, the module started supporting IPv4/IPv6 pools.

**In order to manage pools of IPv4 and IPv6 IP addresses, you need to install the PUQ Customization addon module (free)**

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

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

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

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

WHMCS

+

Clients

Orders

Billing

Support

Reports

Utilities

Addons

Home

Module puqProxmoxKVM

IP Pools

Account Statement

Auto CC Management

Blocking ticket for guests

Cancel Fund Invoices

Client Data Archive

Client Grouping Rules

Clients Only Access

Extension	Version	Author	Requires License		Help
» Module puqProxmoxKVM PUQ ProxmoxKVM module management extension.	1.0	Ruslan Polovyl	FREE	Activate Deactivate	i

IP Pools

Module puqProxmoxKVM

Add new IP Pool

ID	Server	Type	Bridge	Vlan	Gateway	Mask	DNS	Addresses	Count	
#6	19 - proxmox-test.uuq.pl-private	Ipv4	vmbr0	111	192.168.0.1	24	8.8.8.8 1.1.1.1	192.168.255.255 192.169.1.1	(0%) 0/259	Services List
#7	19 - proxmox-test.uuq.pl-private	Ipv6	vmbr0	111	2001:db8::1	112	2001:db8::1 2001:db8::1	2001:db8::ffff 2001:db8::1:ffff	(0%) 0/65539	Services List
#8	7 - proxmox-test.uuq.pl-public	Ipv4	vmbr0	0	77.87.125.129	25	77.87.125.10 77.87.125.20	77.87.125.221 77.87.125.239	(26.32%) 5/19	Services List
#9	7 - proxmox-test.uuq.pl-public	Ipv6	vmbr0	0	2a11:ff00::201	120	2a11:ff00::a 2a11:ff00::14	2a11:ff00::202 2a11:ff00::2ff	(27.56%) 70/254	Services List

Add IP Pool

Server

7 - proxmox-test.uuq.pl-public

Type

IPv4

Bridge

vmbr0

Interface Bridge on the server where addressing is available. Format: vmbrX

Vlan

0

Vlan on the server where addressing is available. 0 - untagged

Gateway

Mask

1

IPv4: 1-32, IPv6: 1-128

DNS1

DNS2

Addresses

IPv4: 10.0.0.1-10.0.255.255  
IPv6: 2001:0DB8:0000:0000:0000:0000:0001-2001:0DB8:0000:0000:FFFF:FFFF:FFFF:FFFF

Add IP Pool

- Home
- Module puqProxmoxKVM
- IP Pools
- Account Statement
- Auto CC Management
- Blocking ticket for guests
- Cancel Fund Invoices
- Client Data Archive
- Client Grouping Rules
- Clients Only Access
- Credit Management
- Disabler of standard elements
- Fraud Check
- GDPR Tools

IP Pool services list

IP Pool Info

ID	Server	Type	Bridge	Vlan	Gateway	Mask	DNS	Addresses	Count
#8	7 - proxmox-test.uuq.pl-public	ipv4	vmbr0	0	77.87.125.129	25	77.87.125.10 77.87.125.20	77.87.125.221 77.87.125.239	(26.32%) 5/19

Services list

ID	Client	Name	Status	Domain	IPs
#4865	Dmytro Kravchenko	KVM 10GB	Active	real-2-4865.vps.uuq.pl	77.87.125.221
#4867	Julia Noga	KVM 10GB	Cancelled	real-7-4867.vps.uuq.pl	77.87.125.223
#4869	Ruslan Polovyi ( TEST sp. z o. o. )	KVM 10GB	Active	real-1-4869.vps.uuq.pl	77.87.125.224
#4893	Dmytro Kravchenko	KVM 10GB	Active	real-2-4893.vps.uuq.pl	77.87.125.222
#4909	Itkeeper Test ( Itkeeper sp. z o.o. )	KVM 10GB	Active	real-8-4909.vps.uuq.pl	77.87.125.225

Edit IP Pool

Server

7 - proxmox-test.uuq.pl-public

Type

IPv6

Bridge

vmbr0

Interface Bridge on the server where addressing is available. Format: vmbrX

Vlan

0

Vlan on the server where addressing is available. 0 - untagged

Gateway

2a11:ff00::201

Mask

120

IPv4: 1-32, IPv6: 1-128

DNS1

2a11:ff00::a

DNS2

2a11:ff00::14

Addresses

2a11:ff00::202-2a11:ff00::2ff  
IPv4: 10.0.0.1-10.0.255.255  
IPv6: 2001:0DB8:0000:0000:0000:0000:0001-2001:0DB8:0000:0000:FFFF:FFFF:FFFF:FFFF

Edit IP Pool Delete IP Pool

# DNS Zones Synchronization

## ProxmoxKVM module **WHMCS**

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Starting with version 1.4, the module started supporting  
**DNS Synchronization**  
(cloudflare.com, HestiaCP)

In order to manage DNS zones to synchronization , you need to install the **PUQ Customization add-on module (free)**

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

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

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

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

Home

Module puqProxmoxKVM -

IP Pools

DNS Zones

Account Statement +

Admin Panel Unique +

Auto CC Management +

Blocking ticket for guests+

Cancel Fund Invoices +


Client Data Archive +

Client Grouping Rules +

Clients Only Access +

Credit Management +

DNS Zones

Module puqProxmoxKVM 

Add Zone (cloudflare.com)

Add Zone (HestiaCP)

ID	Zone	DNS provider type
#1	polovyl.com	cloudflare
#3	125.87.77.in-addr.arpa	cloudflare
#4	0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.f.f.1.1.a.2.ip6.arpa	cloudflare
#5	polovyl.com	hestiacp
#6	0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.f.f.1.1.a.2.ip6.arpa	hestiacp
#7	125.87.77.in-addr.arpa	hestiacp

Home

Module puqProxmoxKVM -

IP Pools

DNS Zones

Account Statement +

Admin Panel Unique +

Auto CC Management +

Blocking ticket for guests+

Cancel Fund Invoices +

Client Data Archive +

Client Grouping Rules +

Clients Only Access +

Credit Management +

Disabler of standard elements +

Fraud Check +

GDPR Tools +

Head/Footer Output +

Maintenance Mode +

Menu Manager +

Overwrite Suspend/Termination +

Successfully!  
Connection successfully

DNS Zones

Module puqProxmoxKVM i

Edit Zone (hestiacp)

Zone

Forward zone: example.com

Reverse zone IPv4: 100.51.198.in-addr.arpa (IPv4 prefix: 198.51.100.0/24)

Reverse zone IPv6: d.c.b.a.d.c.b.a.d.c.b.a.8.b.d.0.1.0.0.2.ip6.arpa (IPv6 prefix: 2001:0db8:abcd:abcd:abcd:abcd:0000/112)

Hestiaccp server

https://hestiacp-test.uuq.pl:8083/

Hestiaccp server: https://example.com:8083/

Hestiaccp admin user

admin

Server administrator username

Hestiaccp admin password

2sCAfnb

Server administrator user password

User

proxmox-dns

The user who will be the holders of the DNS zones

Edit Zone

Test Zone

Delete Zone

Home

Module puqProxmoxKVM -

IP Pools

DNS Zones

Account Statement +

Admin Panel Unique +

Auto CC Management +

Blocking ticket for guests+

Cancel Fund Invoices +

Client Data Archive +

Client Grouping Rules +

Clients Only Access +

Credit Management +

Disabler of standard elements +

Fraud Check +

GDPR Tools +

Successfully!  
Connection successfully

DNS Zones

Module puqProxmoxKVM i

Edit Zone (cloudflare.com)

Zone

Forward zone: example.com

Reverse zone IPv4: 100.51.198.in-addr.arpa (IPv4 prefix: 198.51.100.0/24)

Reverse zone IPv6: d.c.b.a.d.c.b.a.d.c.b.a.8.b.d.0.1.0.0.2.ip6.arpa (IPv6 prefix: 2001:0db8:abcd:abcd:abcd:abcd:0000/112)

Cloudflare Zone ID

610488689b81

Cloudflare Account ID

63f3d02dab0ac

Cloudflare API Token

okxTLA-BL

Edit Zone

Test Zone

Delete Zone