

# 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 Settings

Custom Fields

Configurable Options

Upgrades

Free Domain

Cross-sells

Other

Links

Module Name

PUQ Proxmox KVM

Server Group

PROXMOX

License key

NBHZUL-XXXXXXXXXXGRELFP

success: 2022-09-18T08:56:18+02:00

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

automatically

Default OS template

Debian-11.4

License key

NBHZUL-XXXXXXXXXXGRELFP

success: 2022-09-18T08:56:18+02:00

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>

First vm id

2000

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

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

Snapshot lifetime

1 day

After how many days will snapshots be removed automatically

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 Model

virtio

Automatic selection bridge/vlan

address from the list in the server configuration

Network bridge

vmbr0

Vlan

0

Ignored on automatic selection

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

How will the virtual machine will be cloned from the template

**Full Clone** - much more times for deployment.

**Linked clone VM** - faster deployment, requires less disk space but cannot run without access to the base VM Template

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"/>

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