

# Product configuration in WHMCS

## Hetzner Datacenter module **WHMCS**

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**License key:** A pre-purchased license key for the "PUQ Hetzner Datacenter" module. For the module to work correctly, the key must be active.

**Server name:** This option allows you to add a prefix string to the server name. A new name will be generated each time the create account function is called. The NameServer will be present only if the field is set: `NameServer-[*user_id*]-[*service_id*]`.

**Server type:** The type of server to be deployed. Selected from the available server types provided by Hetzner. This field is automatically populated based on your selection in *Select Server and Location*.

**Server location:** The physical location of the server. Selected from the available locations provided by Hetzner. This field is automatically populated based on your selection in *Select Server and Location*.

**Server placement groups:** Controls how the server should be grouped within the data center. This field is automatically populated based on your selection in *Select Placement Group*.

**Server image:** The operating system image to be used for the server. Automatically populated based on the selection in *Select Image*.

**SSH keys:** Keys used for accessing the server. Multiple keys can be added. Auto-populated based on the selection in *Select SSH Keys*.

**Server networks:** Networks to which the server will be connected. Auto-populated based on your selection in *Private Networks*.

**Server firewalls:** Firewall rules to be applied to the server. Select from predefined rules or create custom ones. Auto-populated based on the selection in *Select Firewalls*.

**User data:** Custom user data used during server creation (e.g., cloud-init). Field limit: 32KB.

**Package setting:** Additional settings for the package:

- **Hide PTR open record:** Hides the PTR control button in the client area.
- **Not allow access to server on VNC/NC:** Prohibits access to the server console.
- **Not allow access to Charts:** Hides server resource charts.
- **Not allow reset password:** Disables the password reset action for the service.
- **Backup:** Allows access to server backups. Select the name of the custom field (default: *Backup*).
- **Snapshot:** Allows access to server snapshots.
- **Server labels:** Adds labels to the server; `|user_id|` and `|service_id|` are added automatically.
- **Hide inputs on client area:** Hides inputs (domain, password, username, nameserver1/2) and sets server label(s) in the client area.
- **Firewall for suspend service:** Select a firewall profile used when suspending the service (or disable the VM).
- **Link to instruction:** A documentation link displayed in the client area.
- **Username as root:** Use `|root|` as the administrative username (otherwise the image default is used).

## Automatic Pricing & Rounding (UI)

The right-hand panel contains a live pricing tool for bulk price management. It keeps UI and backend pricing fully consistent.

- **Base price (Net/Gross):** Displays the Hetzner base price. Choose Net or Gross as a starting point.
- **Percentage margin:** Enter the markup applied to the Hetzner base price.
- **Select currencies:** Bulk-select one or more currencies for which prices will be generated.
- **Select periods:** Bulk-select billing cycles (Monthly, Quarterly, Semi-Annually, Annually, Biennially).
- **Preview table:** Prices recalculate instantly when Base price or Percentage changes.
- **Apply Bulk Pricing:** Updates or creates missing `|tblpricing|` rows for the selected currencies and periods.
- **Automatically apply price daily:** Enables daily synchronization via cron using the saved configuration.
- **Rounding policy:** Always round *up* according to ISO-4217 minor units (0/2/3 decimals). Monthly price is rounded first, then multiplied by the period factor and rounded again. The JS preview and server-side logic are identical.
- **Currency source:** Uses Hetzner Cloud API `|/pricing.currency|` (no hard-coded EUR). Server JSON responses follow currency precision.
- **Expanded dropdown descriptions:** Server selectors show *name - architecture - cores - memory - disk* for clarity.

Bulk pricing settings are persisted per product in `available_servers_input` (Base64 JSON) and merged safely without overwriting unrelated saved fields.

## Daily Cron automation

- DailyCronJob respects the saved bulk pricing configuration.
- Fetches the latest Hetzner base price once per run and applies it to all selected currencies and periods.
- Creates missing `tblpricing` rows and logs detailed status for each action (with trace identifiers in Module Log).

## Admin Tools for Stock Management

- **Clear and Reset:** Restores `stockcontrol` and `qty` values in product configuration from the saved record.
- **restore\_saved\_stockcontrol (AJAX):** Restores data from storage and removes the old entry. Logged states: *input, not\_found, updated\_product, deleted\_saved, done, error*.

## API Settings

**Please pay attention to the order of filling in the API Settings section.** Different locations expose different networks; some networks are not available in specific locations.

**Select Server and Location:** Choose the server type and location from the available options provided by Hetzner.

**Select Image:** Choose the operating system image for the server from the available options provided by Hetzner.

You can deploy services from your backups or snapshots to pre-configure solutions for clients.

**Custom option name for image:** Specify a custom option name for the server image if needed.

**Custom option name for image** is evaluated only during initial deployment. Pass the image name you want to use for server creation.

**Allow user to select ISO image:** Enable this option to allow users to select an ISO image.

**Allow user to reinstall service:** Enable this option to allow users to reinstall the service from the client area.

**Allow user to choose backup and snapshot when reinstalling service:** Enable this to let users select a backup/snapshot for reinstall.

**When enabled,** users can browse their snapshots and backups and reinstall the system directly from a chosen snapshot or backup.

**Select Placement Group:** Choose the placement group for the server from the available options provided by Hetzner.

**Select SSH Keys:** Choose the SSH keys used to access the server.

**Public Networks:** Configure public networking (enable/disable public IPv4 and IPv6).

If you turn off public networks, you must attach at least one private network.

**Private Networks:** Configure the private networks attached to the server.

**Select Firewalls:** Choose firewall rules to be applied to the server.

## Email configuration:

Use pre-built templates to notify users about common actions:

- **Custom Welcome Email**
- **Custom start stop service Email**
- **Custom reset server password Email**
- **Custom snapshot action Email**
- **Custom backup action Email**
- **Custom ISO action Email**
- **Custom reinstall action service Email**

## Metric Billing:

- **Floating IPv4 addresses:** Configure pricing for floating IPv4 addresses.
- **Floating IPv6 addresses:** Configure pricing for floating IPv6 addresses.
- **Bandwidth Usage (GB):** Configure pricing for bandwidth usage.
- **Snapshot Usage (GB):** Configure pricing for snapshot storage/usage.



Module Name: PUQ Hetzner Datacenter  
 Server Group: Hetzner Datacenter

License key: License status

Parameters for package: hestiacp

Server name: Name server this option will allow you to add a id string to the server name. A new name will be generated each time the create account function is called. Where NameServer will only be present if the field is set: `nameserver-["server_id"]-["service_id"]`

Server type: CPX11 Server type

Server location: FSN1 Server location

Server placement groups: PRIVATE\_WEB (SPREAD) Server placement groups

Server image: Server image

SSH keys: IT@PUQ.PL, IT@HOSTMI.COM SSH keys

Server networks: Server networks

Server firewalls: HESTIACP, FIREWALL-2 Server firewalls

```
#cloud-config
package_update: true
package_upgrade: true

write_files:
- path: /root/hestia_install.sh
  content: |
    #!/bin/bash

    # Define variables
    HESTIA_INSTALL_SCRIPT="/root/hst-install.sh"
    LOG_FILE="/root/hst_install_log"
    HESTIA_PASSWORD="${Password}"
    HESTIA_HOSTNAME="${Hostname (Domain)}"
    HESTIA_EMAIL="${Clientemail}"

    # Download Hestia install script
    wget https://raw.githubusercontent.com/hestiacp/hestiacp/release/install/hst-install.sh -O $HESTIA_INSTALL_SCRIPT
    if [ -f $HESTIA_INSTALL_SCRIPT ]; then

Available variables:
$(username) - Username from the service
$(password) - Password from the service
$(hostname) - Domain name from the service
$(nameserver_server) - Nameserver 1 from the server options
$(nameserver2_server) - Nameserver 2 from the server options
$(nameserver1_service) - Nameserver 1 from the service options
$(nameserver2_service) - Nameserver 2 from the service options
$(clientemail) - Client email
Available variables from the service configurable options:
$(operating_system)
$(bitninja)
Available variables from the service custom fields:
$(password2)
$(hostname (domain))
Cloud-Init user data to use during Server creation. This field is limited to 32KiB.
```

Hide PTR open record:  Hide PTR open record. When the checkbox is checked, it hides the button.

Not allow access to noVNC:  Not allow access to server on noVNC. This setting prohibits access to the server console if enabled.

Not allow access to Charts:  Not allow access to server charts. This setting prohibits access to the server charts if enabled.

Not allow reset password:  Not allow reset password. This setting prohibits access to the server charts if enabled.

Backup:  Allow access to server backup. This parameter allows access to server backup; below you need to select the name of the custom field. (Important! The field must be yes/no checkbox)  
 Backup  
 Custom option name for server backup. Select the name of the option that will determine the backup for the user.

Snapshot:  Allow access to server snapshot. This setting allows access to the server snapshot if enabled.  
 Save all snapshots created by the user in case of server deletion. This option will save all snapshots created by the user when the "Terminate services" option is enabled. This means that the virtual machine will be deleted, but the snapshots will still be saved and available in your Hetzner panel. You can delete them manually or restore the virtual machine for the user. Please note that after deleting the virtual machine, the snapshots will no longer be available to the user in the reinstall section.

Server labels: Server labels. The user\_id and service\_id fields with the corresponding values will be automatically added.  
 Server: HestiaCP

Hide inputs on client area:  Hide inputs on client area. This setting hides the inputs (domain, password, username, nameserver1, nameserver2 and all Set up a server labels) on the client area if enabled.  
 Hostname (Domain)

Username as root:  Username as root. This setting allows the username to be set as root if enabled.

Firewall for suspend service: Shutdown virtual machine  
 This setting allows you to select a firewall to be used for suspending the service or disable the VM.

Link to instruction: https://doc.puq.info/books/wireguard-vpn-1  
 A link to the instruction will be reflected in the client area.

**Step 1: Choose server type and location**

Select Server and Location

cp11 - x86 - 2 Cores - 2 GB - 40 GB  
 fsn1 - Falkenstein DC Park 1

Attribute	Value
ID	22
Name	cp11
Description	CPX 11
Cores	2
Memory	2 GB
Disk	40 GB
CPU Type	shared
Storage Type	local
Architecture	x86
Included Traffic	20 TB
Location	fsn1
Price Hourly (Net)	0.0063 EUR
Price Hourly (Gross)	0.0063 EUR
Price Monthly (Net)	3.85 EUR
Price Monthly (Gross)	3.85 EUR

Automatic price generation - How it works?

Base price: Price Monthly (Gross) - 3.85 EUR  
 Percentage: 20.00

Preview (EUR, monthly): 4.62

Automatically apply price daily

Select currencies:  PLN  EUR  UAH  USD

Select periods:  Monthly  Quarterly  Semiannually  Annually  Biennially  Triennially

Apply Bulk Pricing

Currency	Period	Price
PLN	monthly	19.68
PLN	quarterly	59.02
PLN	semiannually	118.03
PLN	annually	236.05
PLN	biennially	472.09
PLN	triennially	708.13
EUR	monthly	4.62
EUR	quarterly	13.86
EUR	semiannually	27.72
EUR	annually	55.44
EUR	biennially	110.88
EUR	triennially	166.32
UAH	monthly	223.67
UAH	quarterly	671.01
UAH	semiannually	1342.02
UAH	annually	2684.04
UAH	biennially	5368.08
UAH	triennially	8052.12
USD	monthly	5.43
USD	quarterly	16.29
USD	semiannually	32.58
USD	annually	65.16
USD	biennially	130.32
USD	triennially	195.48

**Step 2: Choose deployment image and configure access, group name and SSH keys**

Select Image

Show Backups  Show Snapshots

System: debian-11 - Debian 11

Attribute	Value
id	45557056
Name	debian-11
Architecture	x86
Created	16.08.2021, 11:12 UTC
Description	Debian 11
Disk Size	5
Os Flavor	debian
Os Version	11
Protection	Delete: false
Rapid Deploy	true
Status	available
Type	system

Do not use (selected image will be used)

Custom option name for image. Select the name of the option that will define the image displayed to the user when the service is deployed.

Allow user to select ISO image.  
 If you enable this option, the user will be able to select the attached ISO image you have allowed.

Allow user to reinstall service. If you enable this option, the user will be able to reinstall the service.

Allow user to choose backup and snapshot when reinstalling service. If you enable this option, the user will be able to select backups and snapshots during the service installation process. (Important! Each user only gets access to their backups and snapshots based on the user's services)

Select Placement Group:  private\_web (spread)  private\_mail (spread)  private\_cloud (spread)

Select SSH Keys:  it@puq.pl  it@hostmi.com

**Step 3: Choose networks and firewalls**

Important! It is necessary that at least one of the networks is enabled for successful server deployment. Choose from network options for your server. You can also create servers without a public network. If you want to disable a public network, you must first select a private network.

Public Networks:  Public IPv4. If you want to disable a public network, you must first select a private network.  Public IPv6. If you want to disable a public network, you must first select a private network.

Private Networks:  network-10-22 (10.22.0/16)  1111111111 (10.1.0.0/16)

Select Firewalls:  hestiacp  firewall-2  for suspend

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