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Admin Area

- Product Information
- Product configuration in WHMCS

Product Information

Hetzner Datacenter module **WHMCS**

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The "Product Information" section is a comprehensive dashboard that provides administrators with detailed information and control over a specific product or service associated with a user's account. This interface is critical for managing and troubleshooting the product, as well as for making configuration changes.

Key Elements:

1. **Order Information:**
   - **Order #:** Displays the order number and provides a link to view the full order details.
   - **Product/Service:** Specifies the name of the product or service (e.g., "Hetzner product").
   - **Server:** Indicates the data center or server instance where the product is hosted.
2. **User and Server Details:**
   - **Hostname:** The hostname assigned to the server.
   - **Dedicated IP:** The public IP address assigned to the server.
   - **Username:** The username associated with the server's access credentials.
   - **Password:** The password field shows the encrypted password or a placeholder for the server’s access credentials.
   - **Status:** The current status of the service (e.g., "Active").
   - **Assigned IPs:** Lists both IPv4 and IPv6 addresses assigned to the server.
   - **Nameserver 1 & 2:** The nameservers associated with the product.
   - **Operating System:** The operating system installed on the server (e.g., "debian-11").
   - **Backup Option:** Indicates whether the backup feature is enabled or disabled (in this case, "Yes").
3. **Billing and Subscription Details:**
   - **Registration Date:** The date when the product or service was registered.
   - **Quantity:** The quantity of the product or service being managed.
   - **First Payment Amount:** The initial payment made for the service.
   - **Recurring Amount:** The recurring cost associated with the service.
   - **Next Due Date:** The next billing date for the service.
   - **Termination Date:** If applicable, the date when the service is scheduled to be terminated.

- **Billing Cycle:** Indicates the billing cycle for the service (e.g., "Free").
- **Payment Method:** The payment method used for the service (e.g., "PayPal").
- **Promotion Code:** Displays any promotion code applied to the service.

4. **Module Commands:**
   - **API Connection Status:** Displays the status of the API connection, which is necessary for managing the product through automated scripts or external systems. (e.g., "API answer OK").
   - **Commands:** Provides buttons for creating, suspending, unsuspending, terminating the service, changing the package, and sending a custom welcome email.
5. **Server Status:**
   - This section provides real-time status information about the server:
     - **Start/Stop:** Indicates whether the server is running or stopped.
     - **CPU, RAM, and Disk Usage:** Displays the resource usage statistics for the server.
     - **Datacenter:** Indicates the data center location.
     - **Public Network IPs:** Shows the public IPv4 and IPv6 addresses assigned to the server.
     - **Public Network DNS PTR:** Displays the PTR record for reverse DNS.
6. **Metric Statistics:**
   - This section shows various usage metrics and their statuses, including:
     - **Floating IPv4/IPv6 addresses:** Whether these are enabled and their current usage.
     - **Bandwidth Usage:** The amount of bandwidth used.
     - **Snapshot Usage:** The amount of disk space used by snapshots.
   - A **Refresh Now** button allows updating the metrics to display the latest data.
7. **Addons and Additional Information:**
   - **Addons:** Lists any additional services or features associated with the product.
   - **Hostname (Domain):** Displays the domain associated with the product.
   - **Password:** Shows the password or its placeholder.
   - **Subscription ID:** Identifies the subscription tied to the service.
   - **Override Auto-Suspend:** Allows the administrator to prevent the service from being automatically suspended.
   - **Auto-Terminate End of Cycle:** Provides an option to terminate the service at the end of its billing cycle.
   - **Admin Notes:** Allows the administrator to add any notes or information relevant to the management of the service.
8. **Save or Cancel Changes:**
   - **Save Changes:** A purple button to save any changes made in this section.
   - **Cancel Changes:** Allows the administrator to discard any modifications and revert to the previous settings.

IP Address Logging. The system now includes a mechanism that automatically tracks and logs all IP address changes. Every time a new IP address is added or an existing one is removed, a note is automatically added to the **Admin Notes** section. This note includes the date, time, and details of the IP changes. This feature ensures that all changes are

documented for easy reference and auditing.

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.

Details | Pricing | Module Settings | Custom Fields | Configurable Options | Upgrades | Free Domain | Cross-sells | Other | Links

Module Name: PUQ Hetzner Datacenter

Server Group: Hetzner Datacenter

License key

License status

Parameters for package:

Server name
hestiacp
Name server This option will allow you to add a ids 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-["user_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@IHOSTMI.COM
SSH keys

Server networks
Server networks

Server firewalls
HESTIACP
FIREWALL-2
Server firewalls

User data

```
#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:
`${username}` - Username from the service
`${userpassword}` - Password from the service
`${hostname}` - Domain name from the service
`${nameserver1_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:
`${Operating system}`
`${Backup}`
Available variables from the service custom fields:
`${Password}`
`${Hostname (Domain)}`
Cloud-Init user data to use during Server creation. This field is limited to 32KiB.

Package setting

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 | HestiaCP
Add Label
Server labels. The user_id and service_id fields with the corresponding values will be automatically added.

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 tables] on the client area if enabled.
Hostname (Domain)
Custom field name for hostname. Select the name of the option that will determine the hostname for the user. This option uses a custom field for entering the hostname. This allows the user to enter the hostname in a specially defined field, providing more flexible configuration and management of data.

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-s
A link to the instruction will be reflected in the client area.

puqHetznerDatacenter Welcome Email

API:

Step 1: Choose server type and location

Select Server and Location

cpx11 - x86 - 2 Cores - 2 GB - 40 GB

fsn1 - Falkenstein DC Park 1

Attribute	Value
ID	22
Name	cpx11
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 reinstallation 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@ihostmi.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 (10.22.0.0/16)
- 1111111111 (10.1.0.0/16)

Select Firewalls

- hestiacp
- firewall-2
- for suspend