

v2022.2

# Hetzner Server Automation Document

WHMCSModule Networks  
Hetzner Server Automation  
v2022.2

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## Abstract

### WHMCSModule Networks - Why Hetzner Server module development

WHMCSModule Networks, developed the module in aiming to help kick start in growing the business of start-up with lower invest rather than a higher invest in a WHMCS Module Industry. We understand the need to start-up so we delivered to our lovable customers to shape their business growth. We are happy to say we are the most used module provider for Hetzner in the WHMCS Marketplace and continue to strive that by taking customers feedback and implementing them in our work and dedication to the module development.

### Hetzner Server Automation Module at a glance for our users


Hetzner Server Automation Module for WHMCS is a software/module developed by aiming to help from start-up company to matured business companies in shaping their Server offering with great convenience and ease of use to manage their Hetzner servers automatically.

## Installation and Configuration

This tutorial will show you how to successfully install and configure Hetzner Server Automation for WHMCS. We will guide and help you step by step through the whole process.

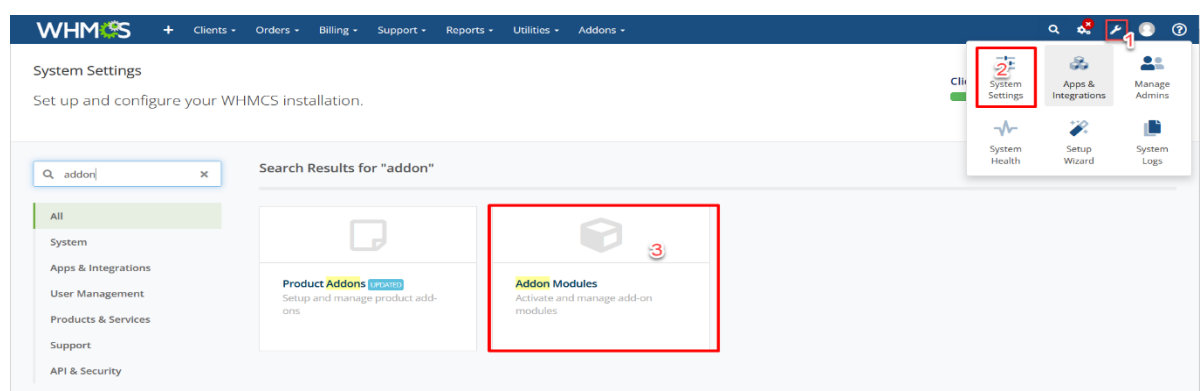
### Downloading and Uploading to WHMCS

1. Download the module from client area at <https://secure.whmcsmodule.net/>
2. Extract the module into your local instance and upload the modules folder into your WHMCS instance

| Name  | Date modified     | Type        | Size |
|---|-------------------|-------------|------|
|  modules | 9/13/2020 6:30 PM | File folder |      |

### Activating Hetzner Cloud Automation Module in WHMCS

1. First go to Configuration > System Settings > Addon Modules



2. Next to Hetzner Server Automation
  - a. **Activate** – Click on Activate to activate the module
  - b. **Configure** – Now click on configure for module configurations
  - c. **Module License** – Provide license key that we get during module download
  - d. **Select Admin ID** – For receiving cron job notifications

- e. **Access Control** – Provide access control based on your requirement whereas Administrator is a mandatory Access control.

|   |   |  |  |          |            |           |
|---|---|--|--|----------|------------|-----------|
| » Hetzner Server<br>Hetzner Server Automation for WHMCS by WHMCSModule Networks |   | 2022.2                                       |  | Activate | Deactivate | Configure |
| Module License  | <input type="text"/>  |  |  |          |            |           |
| Admin ID  | WHMCS   | Admin ID for Receiving Cron Job Notification |  |          |            |           |
| Access Control  | Choose the admin role groups to permit access to this module:<br><input checked="" type="checkbox"/> Full Administrator <input type="checkbox"/> Sales Operator <input type="checkbox"/> Support Operator |  |  |          |            |           |
| <button>Save Changes</button>   |   |  |  |          |            |           |

## Configuring Hetzner Webservice information into Hetzner Server Automation Module

1. Go to <https://robot.hetzner.com/> click on profile icon and select Settings > Webservice and app settings > and get webservice user and password

The screenshot shows the 'HETZNER Robot' interface. The 'SETTINGS' section is active, with the 'Webservice and app settings' tab selected. The page contains the following text and fields:

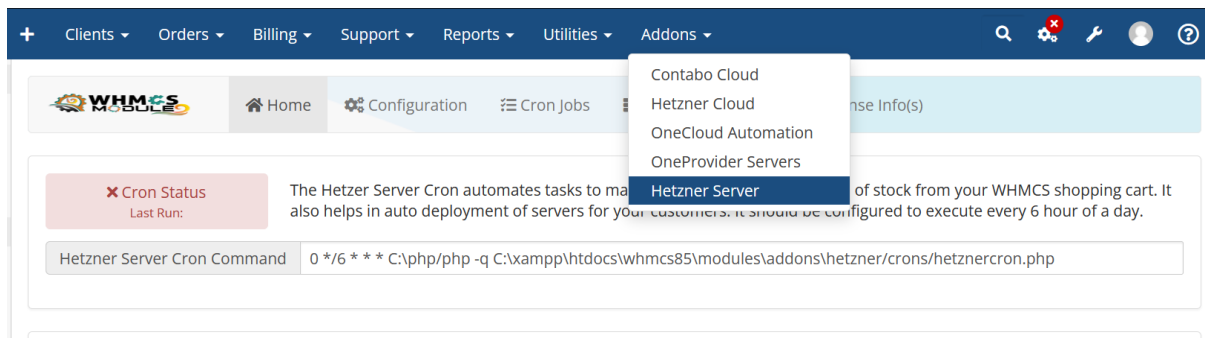
- Language settings**
- Webservice and app settings** (highlighted in red)
- Sub-tabs: Webservice/app user, Webservice/app access, Ordering
- Text: "The robot webservice is an api for the server functions. You need to have an webservice user in order to use the API, Android apps, and iOS apps. Please visit the [webservice documentation](#) for further information."
- Form fields: "Webservice/app user" (text input), "New password\*" (password input), "New password (repeat)\*" (password input)
- Button: "Save"
- Right sidebar menu: Support, **Settings** (highlighted), User account, Invoices, Help, Logout

2. Enable Webservice Ordering from Ordering tab

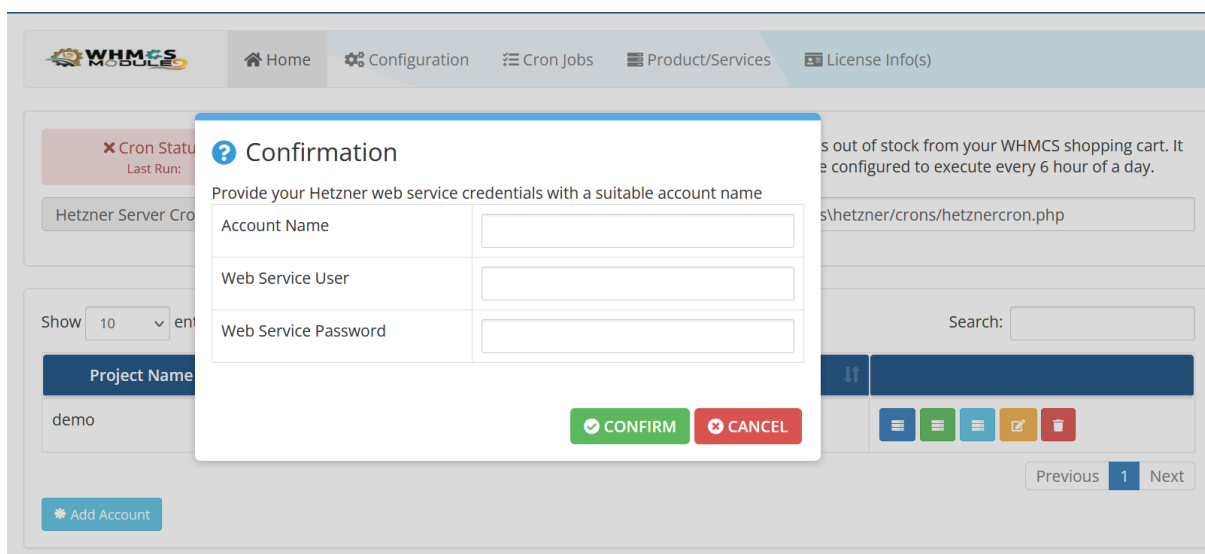
The screenshot shows the 'Ordering' tab under 'Webservice and app settings'. The page contains the following text and fields:

- Language settings**
- Webservice and app settings** (highlighted in red)
- Sub-tabs: Webservice/app user, Webservice/app access, **Ordering**
- Text: "It is possible to order new servers over the webservice. Here you can activate/deactivate this functionality. Currently ordering over the webservice is activated."
- Form field: "Deactivate webservice ordering" (toggle button)
- Text: "Here you can configure if you want to receive order confirmations via email when ordering over the webservice. Currently notifications are enabled."
- Form field: "Deactivate notifications" (toggle button)
- Section: **RIPE handle**

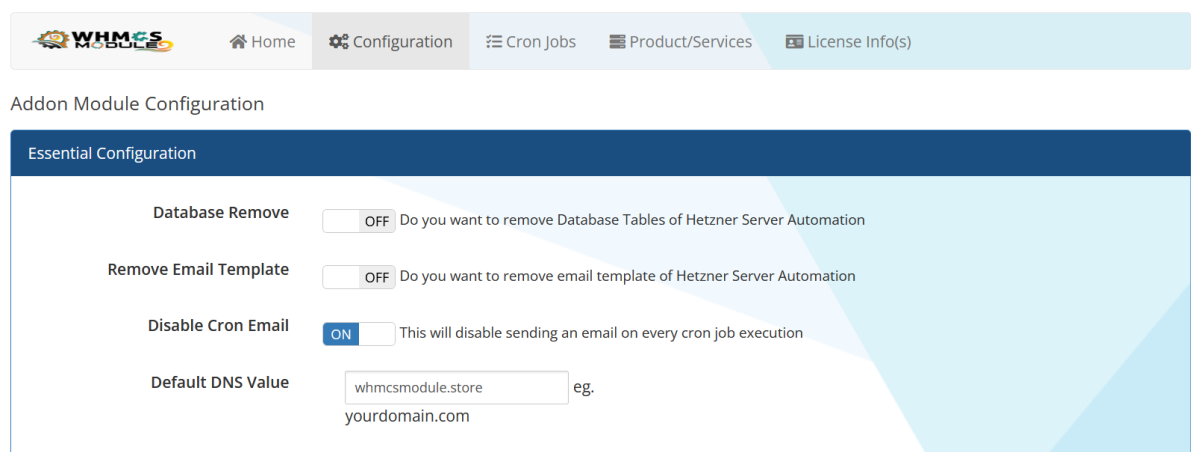
3. Within your WHMCS admin panel go to Addons > Hetzner Server Automation



4. Let's add the Webservice information into WHMCS Hetzner module:
- Click on Add Account
  - Provide name, web service username and password and Confirm



5. Now click on Configuration menu in the module page and adjust as below



6. Configure ACL as per your requirement

Service ACL Configuration

Server Reboot

☐ OFF

Disable Server Reboot for Client/ Admin

cPanel Installation

☒ ON

Disable cPanel Installation for Client/ Admin

Plesk Installation

☒ ON

Disable Plesk Installation for Client/ Admin

Server Rescue Mode

☐ OFF

Disable Rescue Mode for Client/ Admin

Linux OS Installation

☐ OFF

Disable Linux Installation for Client/ Admin

VNC OS Installation

☐ OFF

Disable VNC Installation for Client/ Admin

Windows OS Installation

☒ ON

Disable Windows Installation for Client/ Admin

Wake on Lan

☐ OFF

Disable Wake on Lan for Client/ Admin

Reverse PTR

☐ OFF

Disable IP Reverse DNS for Client/ Admin

## 7. Marketing Servers details, please configure as shown below

Marketing Servers Configuration

Purchase of Marketing Servers

☒ ON

Disable ordering marketing servers from module page

View Market Servers

No of servers to view during Marketing servers page view

## 8. Product Configurations, configure as shown

- Conversation Price: default put 0 else put your conversation amount
- Rest you can adjust as per your requirement

Product Configuration

Out Of Stock/Delete

☐ OFF

Out of Stock - If assigned to a customer and the product is not available at DC  
Delete - If the product neither available at DC nor provisioned to your customer in your WHMCS

Auto Import

☐ OFF

Enable Product Auto Import into your WHMCS Shopping cart during cron job execution

Setup Fee Impose

☐ OFF

If selected, if base setup fee is zero then product fee will be the new setup fee

Enable Product Tax

☐ OFF

Enable Taxation for imported servers

Selling Percentage

Product Selling Hike Percentage for Product Automation, eg: 10

Conversation Price

Currency conversation default price, it will help in converting EURO (Hetzner Product) price to your default (primary) currency. If your default currency is EUR then put 0 else put your desired amount conversation rage

Marketing Servers

Product/Services group name, in which products will be added during Import

Standard Servers

Standard Server Product/Service group name, in which products will be added during Import

Min Value

Product Minimum value in Euro - Above this value servers will be imported

Max Value

Product Maximum value in Euro - Below this value servers will be imported

Servers to Import

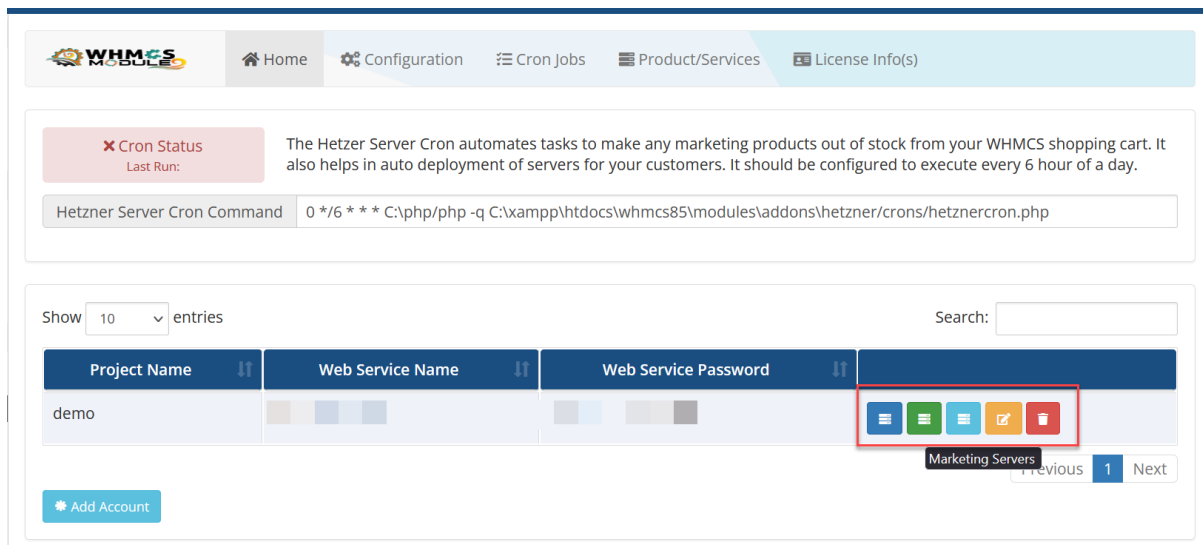
No of Servers to be imported into WHMCS during cron job execution

Default Account

Select the default account using which products will be imported during cron job execution

## Cron Job & Importing Servers

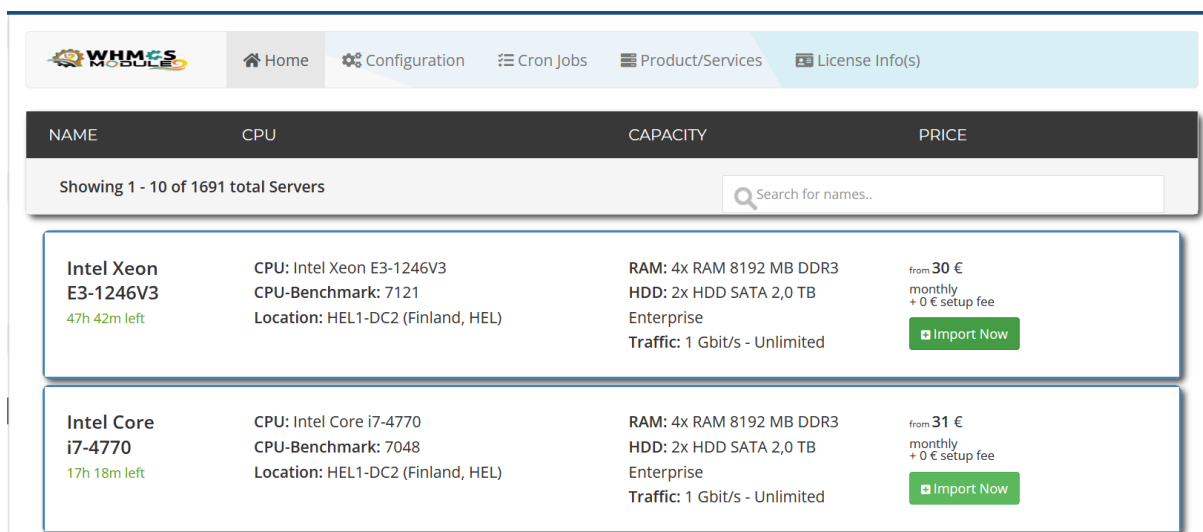
1. If you wanted to import packages automatically then you can set up the cron to run at every day or every 6/12 hours, you can adjust according to your requirement



The screenshot shows the WHMCS Cron Jobs configuration page. At the top, there's a navigation bar with links: Home, Configuration, Cron Jobs, Product/Services, and License Info(s). Below the navigation bar, there's a section titled "Cron Status" with a red "X" icon and the text: "The Hetzer Server Cron automates tasks to make any marketing products out of stock from your WHMCS shopping cart. It also helps in auto deployment of servers for your customers. It should be configured to execute every 6 hour of a day." Below this, there's a text input field for the "Hetzner Server Cron Command" with the value: "0 \*/6 \* \* \* C:\php\php -q C:\xampp\htdocs\whmcs85\modules\addons\hetzner\cron\hetznercron.php".

Below the cron configuration, there's a table with columns: Project Name, Web Service Name, Web Service Password, and a set of action buttons. The table has one row with the value "demo" in the Project Name column. The action buttons are: a blue button with a list icon, a green button with a plus icon, a blue button with a minus icon, an orange button with a plus icon, and a red button with a trash icon. A tooltip "Marketing Servers" is visible over the orange button. Below the table, there's a "Add Account" button and a pagination bar showing "Previous 1 Next".

2. Importing Servers: If you wanted to import Marketing/ Standard servers then click on button and it will take you to the respective pages where you can import them to your WHMCS
3. For Marketing Servers;



The screenshot shows the WHMCS Server Import page. At the top, there's a navigation bar with links: Home, Configuration, Cron Jobs, Product/Services, and License Info(s). Below the navigation bar, there's a table with columns: NAME, CPU, CAPACITY, and PRICE. The table has a header row and a body row. The body row contains the following data:

| NAME                                 | CPU   | CAPACITY   | PRICE  |
|--------------------------------------|---|--|--|
| Intel Xeon E3-1246V3<br>47h 42m left | CPU: Intel Xeon E3-1246V3<br>CPU-Benchmark: 7121<br>Location: HEL1-DC2 (Finland, HEL) | RAM: 4x RAM 8192 MB DDR3<br>HDD: 2x HDD SATA 2,0 TB<br>Enterprise<br>Traffic: 1 Gbit/s - Unlimited | from 30 € monthly<br>+ 0 € setup fee<br><a href="#">Import Now</a> |

Below the table, there's a search bar with the text "Search for names..".

#### 4. For Standard Servers:

| + Clients ▾ Orders ▾ Billing ▾ Support ▾ Reports ▾ Utilities ▾ Addons ▾ |   |  |  |
|---|---|--|--|
| WHMCS MODULES   |   |  |  |
| Home Configuration Cron Jobs Product/Services License Info(s)           |   |  |  |
| NAME  | CPU   | CAPACITY   | PRICE  |
| Showing total of 8 Standard Servers                                     |   |  |  |
| Search for names..  |   |  |  |
| Intel® Xeon® E-2176G Hexa-Core Coffee Lake                              | CPU: Intel® Xeon® E-2176G Hexa-Core Coffee Lake<br>Location: FSN1 (Germany, FSN)<br>HEL1 (Finland, HEL) | RAM: 64 GB DDR4 ECC RAM<br>HDD: 2 x 8 TB SATA 6 Gb/s<br>Enterprise HDD; 7200 rpm<br>(Software-RAID 1)<br>Traffic: 1 Gbit/s bandwidth - Unlimited | Gross Price:<br>FSN1 - 85.1 €<br>monthly + 79 € setup fee<br><a href="#">Import Now</a><br>HEL1 - 79.6 €<br>monthly + 79 € setup fee<br><a href="#">Import Now</a> |
| Intel® Xeon® E-2176G Hexa-Core Coffee Lake                              | CPU: Intel® Xeon® E-2176G Hexa-Core Coffee Lake<br>Location: FSN1 (Germany, FSN)<br>HEL1 (Finland, HEL) | RAM: 64 GB DDR4 ECC RAM<br>HDD: 2 x 960 GB NVMe SSD<br>Datacenter Edition (Software-RAID 1)<br>Traffic: 1 Gbit/s bandwidth -                     | Gross Price:<br>FSN1 - 85.1 €<br>monthly + 79 € setup fee<br><a href="#">Import Now</a><br>HEL1 - 79.6 €   |

5. To view list of servers and import them to your WHMCS if you have any before using the module you will see something like this, it will be having an + sign to import any server if already imported then it will not show

| + Clients ▾ Orders ▾ Billing ▾ Support ▾ Reports ▾ Utilities ▾ Addons ▾ |               |         |           |        |           |            |               |  |
|---|---------------|---------|-----------|--------|-----------|------------|---------------|--|
| WHMCS MODULES   |               |         |           |        |           |            |               |  |
| Home Configuration Cron Jobs Product/Services License Info(s)           |               |         |           |        |           |            |               |  |
| Search:   |               |         |           |        |           |            |               |  |
| #   | Main IP       | Name    | Traffic   | Status | Cancelled | Paid Until | Assigned User |  |
| 1875274   | 95.216.16.168 | demoSrv | Unlimited | READY  | No        | 2022-09-28 | Demo User     |  |

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## Product/ Services Pages

- Once everything is set you can see your products under product/ service tab or from WHMCS product/services

System Settings
Set up and configure your WHMCS installation.
Click here to view the setup tasks
29%

prod
x

Search Results for "prod"
Popularity

All
System
Apps & Integrations
User Management
Products & Services
Support
API & Security

Products/Services
Setup and manage products

Configurable Options
Manage extras and options for products

Product Addons
Setup and manage product add-ons


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It will show you as:

| Product Name                         | Type                                   | Pay Type  | Stock | Auto Setup          |  |  |
|--------------------------------------|--|-----------|-------|---------------------|--|--|
| Group Name: Dedicated Servers Market |  |           |       |                     |  |  |
| Intel Xeon E3-1246V3                 | Server/VPS (Hetzner Server Automation) | Recurring | -     | After First Payment |  |  |

Or, here from module page you can select the servers that you wanted to exclude from cron job activity for example: this is best for Standard server selling as they are constant products by Hetzner

 Home Configuration Cron Jobs Product/Services License Info(s)

Product/Service - Access control to exclud from Out of Stock

The selected products will be excluded from cron job out of stock and shopping cart hidden list execution

Search:

|                          | Product Name         | Description   | Type      | Price       |
|--------------------------|----------------------|---|-----------|-------------|
| <input type="checkbox"/> | Intel Xeon E3-1246V3 | CPU: Intel Xeon E3-1246V3<br>RAM: 4x RAM 8192 MB DDR3<br>HDD: 2x HDD SATA 2,0 TB Enterprise<br>Traffic: 1 Gbit/s - Unlimited<br>Location: HEL1-DC5 (Finland, HEL) | Recurring | \$33.00 USD |

Save Changes

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## 2. Module Settings Tab: Here you can define any custom bandwidth if you wanted to assign for your products else you can leave as it is

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

Module Name: Hetzner Server Automation

Server Group: None

Bandwidth Limit: Unlimited Select Datatraffic Pack

Product ID: 1875779  
Hetzner Product ID for auto Provisioning of Servers

Warning: Server Stock  
Setup cron job so that if the product is out of stock at DC then we can make it out of stock within your WHMCS

Server/Product Type: Market Select the type of the Server

Custom Bandwidth: Bandwidth In MB (Fill this if Custom Bandwidth selected else leave blank)

Warning: Automatic Server Setup  
If the product is available for API provisioning then module will automatically place server order with DC based on the option selected below.

Account Name: demo Your Account/Project Name

Server Location: Server Location required standard servers only

☐ Automatically setup the product as soon as an order is placed

☒ Automatically setup the product as soon as the first payment is received

☐ Automatically setup the product when you manually accept a pending order

☐ Do not automatically setup this product

## Hetzner Storage Boxes:

1. If you have assigned a storage box to your Dedicated server as on module version 2022.2 your users can manage them from WHMCS itself, whereas you need to reset the password from primary storage account and add it into WHMCS password field as shown below to be reflected in client area:
2. Assigning Storage password from user profile:

|                 |                            |
|-----------------|----------------------------|
| Product/Service | Intel Xeon E3-1246V3 ▾     |
| Server          | Server Auction-1875274 ( ▾ |
| Hostname        | demoSrv ▾<br>demosrv       |
| Dedicated IP    |                            |
| Username        |                            |
| Password        | ISLRTsurkwlyB1F            |
| Status          | Active ▾                   |

Client Area/ Admin Area storage management screenshots

Storage Information

|                             |                                     |                        |                            |
|-----------------------------|-------------------------------------|------------------------|----------------------------|
| Name:                       | DemoSRV                             | Product:               | BX11                       |
| Host System:                | HEL1-BX54                           | Server:                | u319762.your-storagebox.de |
| User Name:                  | u319762                             | Password:              | ISLRTsurkwlyB1F            |
| Samba/CIFS share:           | //u319762.your-storagebox.de/backup | Disk usage:            | 0 GB / 0 GB / 1024 GB      |
| WebDAV:                     | Enabled                             | Samba:                 | Enabled                    |
| SSH:                        | Enabled                             | External reachability: | Enabled                    |
| Display snapshot directory: | Disabled                            | Cancelled:             | No                         |
| Automatic Snapshots:        | Enabled                             | Locked:                | No                         |

Actions

Update Storage Box

Create snapshot

Add Sub Account

Disable Auto Snapshots

## Snapshot Information

With the Snapshot function, you can create an image of the content of your Storage Box; this will enable you to perform a recovery of the content, if needed, in a short time. Please note that when you restore an earlier snapshot, all newer snapshots will be deleted.

Show 10 entries

Search:

| Comment | Date                | Size | Filesystem size | Actions  |
|---------|---------------------|------|-----------------|--|
|         | 2022-09-29 15:09:03 | 0    | 0               | <a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Copy</a> |
| demo1   | 2022-09-29 11:09:03 | 0    | 0               | <a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Copy</a> |
| demo12  | 2022-09-29 02:09:36 | 0    | 0               | <a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Copy</a> |

Previous 1 Next

## Sub Account Information

A sub account is an extra account you can use to access the storagebox.

Show 10 entries

Search:

| Login Information   | Permissions  | Actions  |
|---|--|--|
| Server : u319762-sub1.your-storagebox.de<br>User Name : u319762-sub1<br>Password : PumYgLfASvYgdm5<br>Comment : New<br>Base directory : New directory | Samba : ✓<br>WebDAV : ✓<br>SSH : ✓<br>External reachability : ✓<br>Read Only : ✗ | <a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Copy</a> |

Previous 1 Next

## Automatic Snapshots

With the Snapshot function, you can create an image of the content of your Storage Box; this will enable you to perform a recovery of the content, if needed, in a short time.

Using this feature, you can create a set schedule of automated snapshots.

Please note that when you restore an earlier snapshot, all newer snapshots will be deleted.

Show 10 entries

Search:

| Status  | Type  | Time (UTC) | Maximum snapshots |
|---------|-------|------------|-------------------|
| Enabled | Daily | 9:30       | 10                |

Previous 1 Next

## Upgrading from Previous version to v2022.2 or latter unless not defined in another section

Unless not defined in another heading this is the standard upgrade process from v2022.1 to v2022.2 or latter version

1. Upload the module folder to your whmcs directory
2. Visit the addon module page to upgrade it to latest version

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