

Comet Provisioning Module for WHMCS

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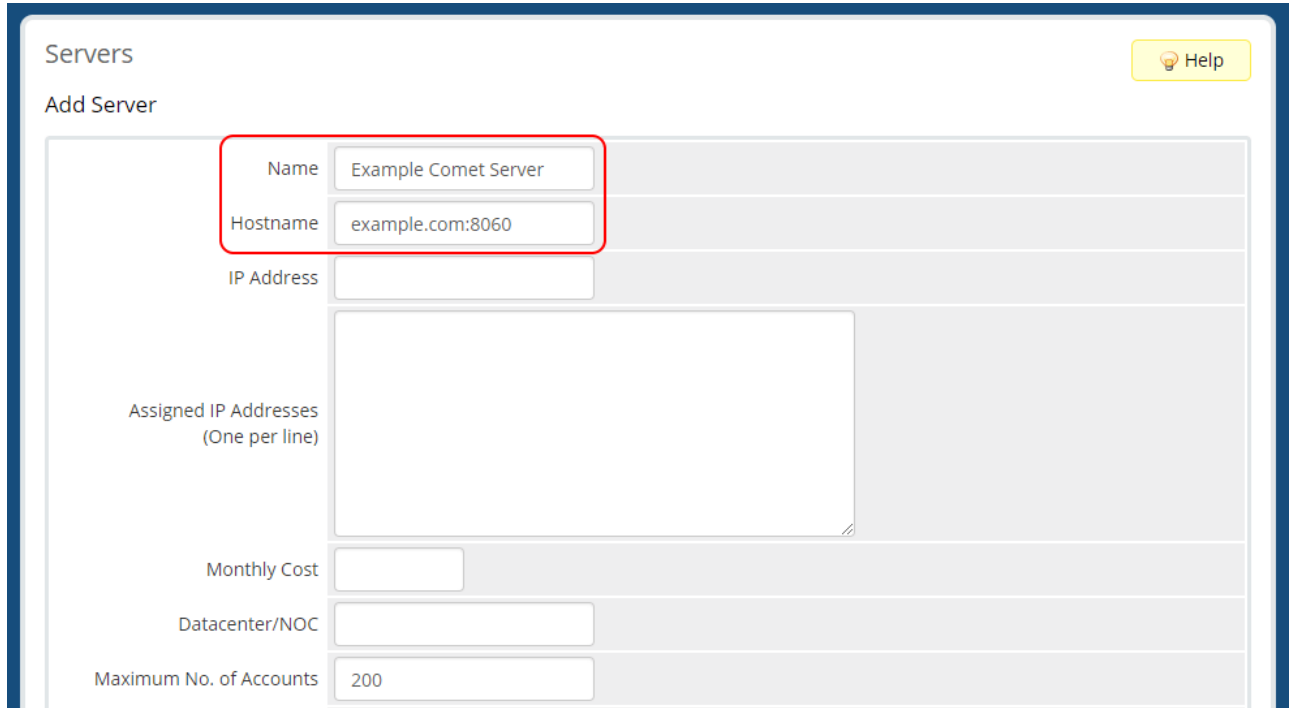
Requirements

- Comet Server v18.9.2+
- WHMCS v7.6.0+
- PHP v5.6.0+

Earlier versions of these products may work with some caveats, but are untested.

Installation and Configuration

1. Extract the module .zip file
2. Upload the module folder to your WHMCS provisioning module folder, and rename it to **cometbackup**.
 - e.g. **your_whmcs_root_folder / modules / servers / cometbackup**
3. Navigate to **Setup > Products/Services > Servers** and click **Add New Server**.
4. Choose a name, and input your Comet server's connection details (including port, but not protocol) in the **Hostname** field.

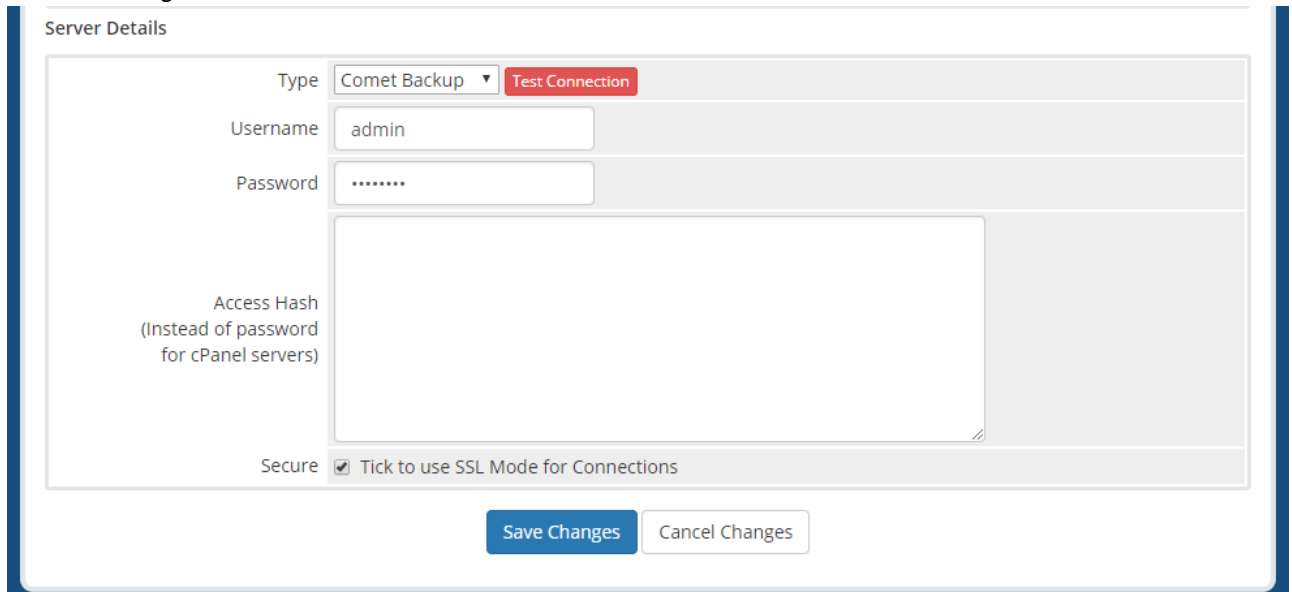


The screenshot shows the 'Servers' management interface in WHMCS. The 'Add Server' form is displayed with the following fields:

- Name:** Example Comet Server
- Hostname:** example.com:8060
- IP Address:** (empty)
- Assigned IP Addresses (One per line):** (empty text area)
- Monthly Cost:** (empty)
- Datacenter/NOC:** (empty)
- Maximum No. of Accounts:** 200

A red box highlights the 'Name' and 'Hostname' fields.

5. Select **Comet Backup** as the server's **Type**, enter your login details, enable the **Secure** option *if your server is using HTTPS*, and click **Save**.



The screenshot shows the 'Server Details' form in WHMCS. The form includes the following fields and options:

- Type:** Comet Backup (dropdown menu)
- Test Connection:** (button)
- Username:** admin
- Password:** (masked with dots)
- Access Hash (Instead of password for cPanel servers):** (empty text area)
- Secure:** ☒ Tick to use SSL Mode for Connections
- Save Changes:** (button)
- Cancel Changes:** (button)

- You can use the **Test Connection** button to confirm whether your server is accessible using the provided address and credentials.

6. While still in the **Servers** area, click **Create New Group** and assign your server to your new server group.

The screenshot shows the 'Servers' section of the WHMCS interface. The 'Create New Group' form is displayed. The 'Name' field is filled with 'Example Comet Server Group'. The 'Fill Type' section has two radio buttons: 'Add to the least full server' (selected) and 'Fill active server until full then switch to next least used'. Below this, there are two lists: 'Selected Servers' (empty) and a list of available servers containing 'Example Comet Server'. Between the lists are 'Add »' and « Remove' buttons. At the bottom are 'Save Changes' and 'Cancel Changes' buttons.

- We *strongly* recommend that you only have one server per Comet server group in WHMCS - having more than one server in a group may result in unexpected behaviour.

7. Navigate to **Setup > Products/Services > Products/Services**.

8. Create a product group if none exists.

The screenshot shows the 'Products/Services' section of the WHMCS interface. The 'Create Group' form is displayed. The 'Product Group Name' field is filled with 'Comet Backup Example'. The 'Product Group Headline' field is filled with 'Select Your Plan'. The 'Product Group Tagline' field is filled with 'eg. With our 30 Day Money Back Guarantee You Can't Go Wrong!'. The 'Group Features' field contains the text 'You must save the product group for the first time before you can add features'.

9. Create a new product, assigned to your product group.

The screenshot shows the 'Products/Services' section of the WHMCS interface. The 'Create a New Product' form is displayed. The 'Product Type' dropdown is set to 'Other Product/Service'. The 'Product Group' dropdown is set to 'Comet Backup Example'. The 'Product Name' field is filled with 'Comet Backup Example Product'. At the bottom is a 'Continue »' button.

10. In the product's **Details** tab, we recommend *disabling* the **Require Domain** option.

The screenshot shows the 'Products/Services' interface with the 'Edit Product' form. The 'Details' tab is selected. The form includes fields for Product Type (Other), Product Group (Comet Backup Example), Product Name (Comet Backup Example Product), and Product Description. Below these are checkboxes for Welcome Email (None), Require Domain (unchecked), Stock Control (unchecked), Apply Tax (unchecked), Featured (unchecked), Hidden (unchecked), and Retired (unchecked). The 'Require Domain' checkbox is highlighted with a red box. At the bottom are 'Save Changes' and 'Cancel Changes' buttons.

11. In the product's **Module Settings** tab, select **Comet Backup** and choose the new server group.

The screenshot shows the 'Products/Services' interface with the 'Edit Product' form. The 'Module Settings' tab is selected. The form includes fields for Module Name (Comet Backup) and Server Group (Example Cor). Below these are fields for Policy Group (Create New Policy C) and Storage Vault (Mair). A note explains that the 'Create New Policy Group' option will cause a new policy group to be created. At the bottom are 'Save Changes' and 'Cancel Changes' buttons.

- If you wish for new orders to be automatically accepted and new accounts to be immediately created on the Comet server, you should select **Automatically setup the product as soon as an order is placed** (or **Automatically setup the product as soon as the first payment is received** if you want to require payment first) in the **Module Settings** tab.

12. If you wish to allow your users to specify custom usernames or custom passwords, visit your product's **Custom Fields** tab.

- To allow custom *usernames*, under **Add New Custom Field**:
 - Set **Field Name** to **Username**
 - Set **Field Type** to **Text Box**
 - Set **Validation** to **/^.{6}/**
 - Comet requires usernames to contain at least **6** characters, which this validation rule enforces. If this is not set correctly, short usernames may result in a silent failure; WHMCS will allow the user to complete the order process, but the new service will be marked as **Pending** and a 'CreateAccount' failure will be logged to the **Utilities > Module Queue** page.
 - Enable the options for both **Required Field** and **Show on Order Form**.
 - You should ideally set a **Description** explaining the 6 character length requirement, and any other limitations that you may have implemented via the **Validation** field.
 - If you also have a custom field for user passwords, you may wish to set **Display Order** to a **lower** number than the corresponding value applied to the **Password** field, in order to ensure that **Username** is displayed first.
 - Click **Save Changes** to add your new custom field.
- An example of a custom **Username** field configuration:

Add New Custom Field

Field Name	Username	Display Order	1
Field Type	Text Box		
Description	Please select a username consisting of at least 6 characters.	The explanation to show users	
Validation	/^.{6}/	Regular Expression Validation String	
Select Options	For Dropdowns Only - Comma Separated List		
<input type="checkbox"/> Admin Only <input checked="" type="checkbox"/> Required Field <input checked="" type="checkbox"/> Show on Order Form <input type="checkbox"/> Show on Invoice			

- To allow custom *passwords*, under **Add New Custom Field**:
 - Set **Field Name** to **Password**
 - Set **Field Type** to **Password**
 - Set **Validation** to **/^.{8}/**
 - Comet requires passwords to contain at least **8** characters, which this validation rule enforces. If this is not set correctly, short passwords may result in a silent failure; WHMCS will allow the user to complete the order process, but the new service will be marked as **Pending** and a **CreateAccount** failure will be logged to the **Utilities > Module Queue** page.
 - Enable the options for both **Required Field** and **Show on Order Form**.

- You should ideally set a **Description** explaining the 8 character length requirement, and any other limitations that you may have implemented via the **Validation** field.
 - If you also have a custom field for usernames, you may wish to set **Display Order** to a **higher** number than the corresponding value applied to the **Username** field, in order to ensure that **Password** is displayed first.
 - Click **Save Changes** to add your new custom field.
- An example of a custom **Password** field configuration:

Add New Custom Field

Field Name	<input type="text" value="Password"/>	Display Order	<input type="text" value="2"/>
Field Type	<input type="text" value="Password"/>		
Description	<input type="text" value="Please enter a password containing at least 8 characters."/>	The explanation to show users	
Validation	<input type="text" value="/^{8}/"/>	Regular Expression Validation String	
Select Options	<input type="text"/>		
For Dropdowns Only - Comma Seperated List			
<input type="checkbox"/> Admin Only <input checked="" type="checkbox"/> Required Field <input checked="" type="checkbox"/> Show on Order Form <input type="checkbox"/> Show on Invoice			

- Please note that service passwords in WHMCS are not obscured from the Admin area.

13. Select a policy group and storage vault if desired, and save your changes.

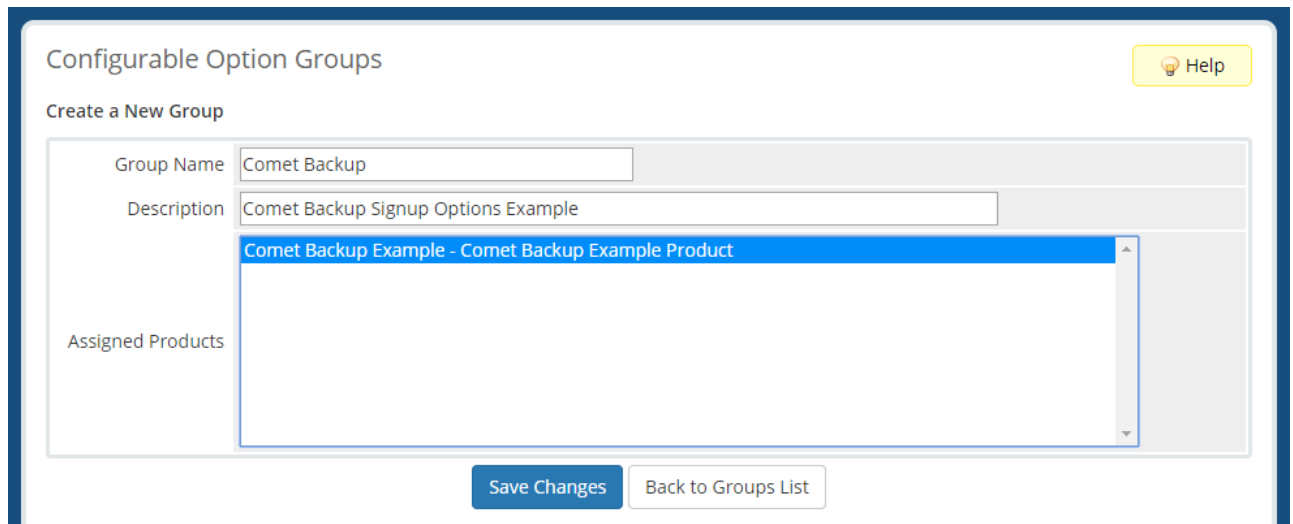
- If the **[Create New Policy Group]..** option is selected, this will cause a new policy group to be created and assigned on the Comet server with the following options:
 - Storage vault creation / editing / deletion disallowed.
 - This helps to ensure that users cannot avoid storage vault quotas assigned via WHMCS.
 - Available storage vault types are restricted to the Comet server type, preventing reassignment of an existing vault to a different type.
 - Password changes via the client software are disallowed, although WHMCS administrators and Comet Server administrators may reset user passwords.
 - This requires users to manage their passwords via WHMCS, keeping the WHMCS password on record in sync with the actual password on the Comet server.
- New policy groups will be created the first time the module attempts to assign them to a new account.

14. This product can now be used to provision and manage Comet accounts from WHMCS.

Setting up Configurable Options

Configurable options are presented to your users during sign-up. The Comet provisioning module for WHMCS currently supports configurable options for maximum device limits, protected item quotas, and storage vault quotas.

1. Navigate to **Setup > Products/Services > Configurable Options** and click **Create a New Group**.
2. Enter a **Group Name** and **Description**, select your new product in the **Assigned Products** list, then click **Save**.



The screenshot shows the 'Configurable Option Groups' interface. At the top right is a 'Help' button. Below the title is a 'Create a New Group' section. It contains three input fields: 'Group Name' with the value 'Comet Backup', 'Description' with the value 'Comet Backup Signup Options Example', and 'Assigned Products' which is a dropdown menu showing 'Comet Backup Example - Comet Backup Example Product'. At the bottom are two buttons: 'Save Changes' and 'Back to Groups List'.

3. Click **Add New Configurable Option**.
4. Enter an **Option Name**. You must choose from the following list, with the left-side preceding " | " being an exact match, and the right side being the label your customers will see when ordering a product:
 - Device limit:
 - `number_of_devices` | Devices
 - Protected item quota (use only one):
 - `protected_item_quota_gb` | Protected Items Quota (GB)
 - `protected_item_quota_tb` | Protected Items Quota (TB)
 - Storage vault quota (use only one):
 - `storage_vault_quota_gb` | Initial Storage Vault Quota (GB)
 - `storage_vault_quota_tb` | Initial Storage Vault Quota (TB)
5. Set **Option Type** to **Quantity**.
6. In **Add Option**, enter `Devices`, `GB` or `TB`, depending on the option you're configuring.

7. Click **Save Changes**.

Configurable Options

Option Name: Option Type:

Options	One Time/ Monthly	Quarterly	Semi-Annual	Annual	Biennial	Triennial	Order	Hide
Add Option: <input type="text" value="Devices"/>							<input type="text" value="0"/>	<input type="checkbox"/>

8. Enter desired values for minimum and maximum quantities in **Minimum Quantity Required** and **Maximum Allowed** respectively.

Configurable Options

Option Name: Option Type:

Minimum Quantity Required: Maximum Allowed: (Set to 0 for Unlimited)

Options		One Time/ Monthly	Quarterly	Semi-Annual	Annual	Biennial
Devices	USD	Setup	0.00	0.00	0.00	0.00
	Pricing	10	0.00	0.00	0.00	0.00

- If this is intended to be a hidden option, simply set both quantities to your desired value. The **hidden** status can be set at the group level.

9. Enter desired per-unit pricing.

- *Note:* **Payment Type** should be set to a corresponding setting in the **Pricing** tab of your product's configuration area in order for this pricing to be utilised.

Products/Services

Edit Product

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

Payment Type ☐ Free ☐ One Time ☒ Recurring

Currency		One Time/Monthly	Quarterly	Semi-Annually	Annually	Biennially	Triennially
USD	Setup Fee	0.00					
	Price	0.00					
	Enable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10. Click **Save Changes** again, then **Close Window**.

11. Repeat steps **3** to **10** again for additional desired restrictions as per step **4**.

Other Important Settings

There are some WHMCS settings that we recommend customising in order to achieve the best possible experience with the Comet Provisioning Module for WHMCS.

Service Welcome Email:

- If you *don't* allow users to select their own passwords (see step **12** of the **Installation and Configuration** section of this documentation), WHMCS will automatically generate a new password for the service. If you have elected to use this password selection method, we recommend that you configure your Comet product in WHMCS to send a welcome email using either the **Other Product/Service Welcome Email** or a custom email template, and for you to customise the template for this to include *at least* the service password.
 - To add your user's service password to a welcome email template:
 - Visit the **Email Templates** page.
 - Either edit a template from the **Product/Service Messages** section of the page, or add a new template to that section using the **Create New Email Template** option.
 - We recommend that you either customise your **Other Product/Service Welcome Email**, or add a new template.
 - Add `{ $service_password }` to your template in order to display the password in emails using this template.
 - Save your changes.
 - To send a welcome email for a product:
 - Visit the **Edit Product** page for the product.
 - Navigate to the **Details** tab.
 - Select your welcome email template under the **Welcome Email** setting.
 - We recommend that you set **Minimum User Password Strength** to **90** or higher in order to enforce passwords that meet Comet's minimum user password strength.
 - This can be configured in the **Security** tab of the **Setup > General Settings** page.
-

Customer Usage

Step 1 Choose Domain

Step 2 Choose Options

Step 3 Review & Checkout

choose billing cycle

☒ \$15.00 USD Monthly + \$20.00 USD Setup Fee

configurable options

Devices: 2

Storage Quota (GB): 600

Total Due Today: \$105.00 USD

Total Recurring Monthly: \$85.00 USD

choose another product

view cart

add to cart & checkout »

Selecting new service options for Comet

1. Choose your Comet product from cart.php (e.g. http://your_whmcs_url.com/cart.php).
 2. Options will present based on the **Configurable Options** that you have assigned to the product.
 3. Complete order.
 4. Depending on the product configuration as per step **11** of **Installation and Configuration**, the module **create** command may run.
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Admin Area Usage

Order #	65 - View Order	Registration Date	31/10/2018
Product/Service	Comet Backup Example Produ	First Payment Amount	0.00
Server	Example Comet	Recurring Amount	0.00
Domain		<input type="checkbox"/> Auto Recalculate on Save	
Dedicated IP		Next Due Date	N/A
Username	example.account	Termination Date	
Password	fRt61J[V.Hg86l	Billing Cycle	Free
Status	Active	Payment Method	Direct Deb View Invoices
Devices	5 x Devices	Promotion Code	None
Initial Storage Vault Quota	10 x GB	(Change will not affect price)	
Protected Items Quota	1 x GB		
Module Commands	Create Suspend Unsuspend Terminate Change Package Change Password		

Viewing client service options from the admin area

Changing Passwords

- Set the new user password in the customer's **Products/Services** tab.
 - If you're allowing users to specify their own passwords (see step **12** of the **Installation and Configuration** section of this documentation), you should set the **Password** field displayed *below* the **Addons** configuration options to avoid unexpected results (if set, the service password value will overwrite the custom value when the **Change Password** action is performed).

	Reg Date	Name	Pricing	Status	Next Due Date	
Addons	No Records Found					
	+ Add New Addon					
Username	ExampleUser					
Password	ExamplePassword					

- If you're using automatically generated WHMCS service passwords, you should set the **Password** field displayed above the **Status** setting.

Order #	80 - View Order
Product/Service	Comet Backup Example Produ ▼
Server	Example Comet ▼
Domain	<input type="text"/> ▼
Dedicated IP	<input type="text"/>
Username	ExampleUser
Password	SMub82-Lo!kB76
Status	Active ▼

2. Save your changes.
3. Run the **Change Password** action from the module commands area.

Changing Quotas

1. Set the new protected item / storage vault / device quota values in the customer's **Products/Services** tab.
2. Save your changes.
3. Run the **Change Package** action from the module commands area.

Other Actions

All other module commands can be run directly from a customer's **Products/Services** tab without the need to perform additional steps such as saving first.