

UGCC and WHMCS

Brainless Technologies Ltd.

UGCC Module Version 1.1

Requirements

Designed for WHMCS 7.10.2

Minimum required version of UGCC: 2.373

Module/Product Ideology

The module was designed so that each base product has a minimal player slot count already included, for example let's say 12. When customers purchase a server, they have the option to add additional slots. This guide was created with this in mind, if you choose not to do it this way you may make the various changes as required. It should still work, but the module code expects all of the custom fields and configuration options to be specified.

If you change any of the custom field names, option group names, or module config options, you will have to update the `ugcc.php` script to reference these new names. But you really need to know what you're doing. Feel free to contact us if you have feedback or need customization of the module.

Module Installation

Place the contents of the archive in `<whmcs_root>/modules/servers`. The module's folder name cannot be changed. The path to the module should be `<whmcs_root>/modules/servers/ugcc`

Setup UGCC Server within WHMCS

In WHMCS navigate to Setup→Products/Services→Server

Add a new server

For module choose 'UGCC Provisioning Module'

Hostname should be the FQDN or IP address of your UGCC install. Do not use IP field.

Enter an admin account's username and password. Click Test Connection. If you're using non-standard ports the test will probably fail (that's ok). Click continue anyways.

Fill in the Name, Hostname, Maximum No. of Accounts under Edit Server.

Fill in Username, Password. Select whether to use Secure Connections (https basically) and specify the port the UGCC Web Panel listens on. You may have to select the Override with Custom Port tick box.

Click the test connection button.

Once the test passes click save.

On the Servers overview page there is a 'UGCC Admin Login' button that will allow staff to access the panel as the user defined above. You may also use WHMCS's connect tool under utilities.

If you only have one web panel managing multiple remote nodes, you're done. But if you have multiple installs that are standalone, you can enter the information for each one here.

Create a new Option Group

Here we'll create the customer selectable number of slots when they order a server. This will have to be set per product. New option groups will have to be created if pricing, min or max quantity differs.

Navigate to Setup→Products/Services→Configurable Options

Create a new group, Enter Group Name and Description. Click Save.

A configurable options area will now appear. Click the Add New Configurable Option button.

In the new window that appears type an Option Name (i.e. Additional Player Slots), set the type to Quantity. Set the Add Option text box to Additional Player Slots. Click Save. New options will now appear.

Enter a minimum and maximum quantity. Then set the prices for each additional slot. Click save changes.

The screenshot shows the WHMCS Configurable Options interface in a Google Chrome browser window. The URL is localhost:81/billing/admin/configproductoptions.php?manageoptions=true&cid=7. The interface is titled 'Configurable Options' and contains the following fields:

- Option Name: Additional Player Slots
- Option Type: Quantity (dropdown menu)
- Minimum Quantity Required: 0
- Maximum Allowed: 100 (Set to 0 for Unlimited)

Below these fields is a table with columns: Options, One Time/Monthly, Quarterly, Semi-Annual, Annual, Biennial, Triennial, Order, and Hide. The table has two rows for 'Player Slots' with a currency of USD.

Options	One Time/Monthly	Quarterly	Semi-Annual	Annual	Biennial	Triennial	Order	Hide
Player Slots	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
Pricing	0.25	0.00	0.00	0.00	0.00	0.00		

At the bottom of the form are two buttons: 'Save Changes' and 'Close Window'.

Repeat the above process two more times for the RAM Allowance and Server CPU Priority options. Screen shots below.

WHMCS - Configurable Options - Google Chrome

localhost:81/billing/admin/configproductoptions.php?manageoptions=true&cid=9

Configurable Options

Option Name: Option Type:

Options			One Time/ Monthly	Quarterly	Semi- Annual	Annual	Biennial	Triennial	Order	Hide
6 GB	USD	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
12 GB	USD	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	15.00	0.00	0.00	0.00	0.00	0.00		
Add Option: <input type="text"/> <input type="text" value="0"/> <input type="checkbox"/>										

(For the RAM options, you need to have the size units; only MB, GB, and PB are allowable. With or without space and case does not matter)

WHMCS - Configurable Options - Google Chrome

localhost:81/billing/admin/configproductoptions.php?manageoptions=true&cid=8

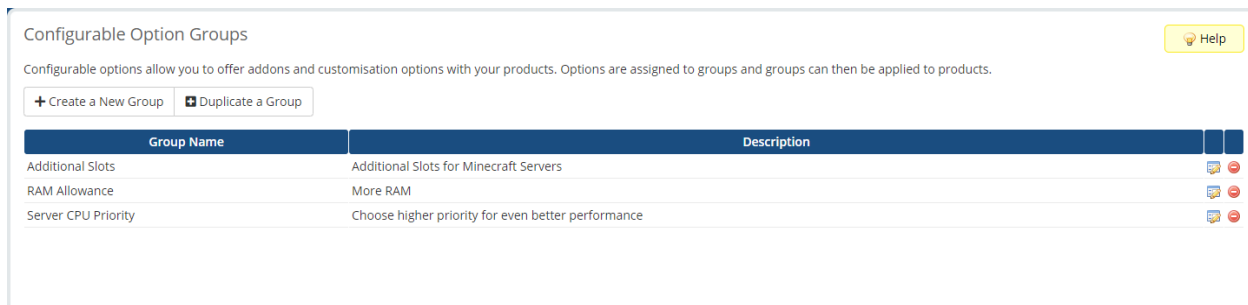
Configurable Options

Option Name: Option Type:

Options			One Time/ Monthly	Quarterly	Semi- Annual	Annual	Biennial	Triennial	Order	Hide
Normal	USD	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	0.00	0.00	0.00	0.00	0.00	0.00		
High	USD	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	5.00	0.00	0.00	0.00	0.00	0.00		
Realtime	USD	Setup	0.00	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	10.00	0.00	0.00	0.00	0.00	0.00		
Add Option: <input type="text"/> <input type="text" value="0"/> <input type="checkbox"/>										

(Options (Normal, High, Realtime) have be defined exactly as shown)

You should now have three configurable options. Example:



Create a new product

Sample screen shots are included at the end of this document.

Navigate to Setup→Products/Services→Products/Services

Create a New Group

Create a New Product

Choose 'Other' product type, select a Product Group, and enter a product Name (Probably a game server i.e. Minecraft or Counter-Strike: GO, etc.). Select the UGCC Provision Module. Set Create hidden to off if you'd like, otherwise remember you'll have to unhide it after setup is complete. Click Continue.

On the Details tab enter what you'd like.

Set your pricing on the Pricing Tab.

On the module settings tab, Choose the auto installer templates that UGCC should use to install this product. There are two template options so the panel knows which installer to use depending if the chosen target server is Linux or Windows (if your environment is strictly Windows or Linux, you can safely specify the same installer config in both places). Set the base player count for this product. If the product by default comes with say 12 player slots, you'd enter 12 here. If it comes with zero slots, enter 0. Also set your preference for auto setup or not on this tab. If you choose not to automatically setup, you'll still be able to manually through WHMCS's product admin page.

On the Custom Fields Tab, create four new fields (These are required, name/type must not be changed. Everything else can be modified):

Field 1:

Name: UID,

Type: Text Box

Desc: Used internally by module, do not set a value.

Select the Admin Only checkbox

Note: Used internally by the Module

Field 2:

Name: SID

Type: Text Box

Desc: Used internally by module, do not set a value.

Select the Admin Only checkbox

Note: Used internally by the Module

Field 3:

Name: Location

Type: Drop Down

Description: Location of server (pick region closest to you)

Select Options Textbox: Names of locations setup within UGCC separated by commas (i.e. Chicago, New York, Seattle)

Select the Required Field, Show on Order Form checkboxes

Note: These let customers define where they want their servers placed and should very closely match the locations defined in the panel. If the panel can't match the selected option to an entry in the panel's location list the auto install could either fail or default to server definition 1.

Field 4:

Name: GCP Password

Type: Password

Desc: Password to use with game server control panel, can be left blank for a random password. If you have multiple products, enter the password you're currently using.

Validation (may need tweaked): /^(?=.*\d)(?=.*[A-Za-z])[0-9A-Za-z!@#%]{8,}\$/

Select Show on Order Form

Note: If left blank module will use the random password provided by WHMCS. Validation will enforce 8 char password, number and uppercase chars.

Configurable Options tab: Select the Option groups that you created earlier.

You may review the other tabs and configure to your liking. But the basics are finished in regards to this guide.

Click Save Changes.

Note that you can duplicate this Product when you need to setup your next product. You may need to also create a new config option for the player slot selection if the pricing or minimum/maximum player count values differ from what was originally created.

And congrats you should be done with your first product!

Admin Product Page

Here admins may manage an ordered product. A sample screen shot is below.

Username will be blank on a new product; the module will set the username to the customer's email if blank.

Password will be replaced with GCP Password if GCP Password is not blank. When the create button is clicked an account will be created and the GCP Password (or Password field if GCP Password was not specified) will be set for the account. If an account already exists in the panel the password is not changed.

Create will create the user account and set the password (see above about password), the module will then get the user's ID from the panel and populate the UID field. Next, it'll make the API call to install the server, passing the location, UID, installer templates (from Product definition), and Base Slots (from Product definition) + Additional slots select by the user. When the API returns the new server's ID the module will populate the SID field. The panel API will start the server and send a welcome email to the user once the server setup is complete. Create will not run again if SID has a value set.

Once Create returns a SID, the panel could still be installing the server. The API call only returns when the SID is known and then continues the install process. Let the panel start the server when it's finished. You should be Bcc'd on the welcome email. If you don't see the welcome email you can investigate using the panel's logs.

Suspend / Unsuspend – Will disable/enable and stop/start the game server. It does not disable the user's panel account as they could have other, active products. Nothing is deleted or removed.

Terminate – Will disable a user's account. Keep in mind that a user could have other active products and this could prevent them from logging into the panel to manage their servers. Terminate also stops their product. Nothing is deleted or removed.

Change Password – Updates the password in the panel to the contents of 'Password' field. Keep in mind if a user changed their password through the panel it may block their access. If a user didn't specify a GCP Password when checking out and has multiple products, the passwords could be different. You can use the UGCC User Login button to determine which if any password is currently used.

Stop / Start Server – Admin's can quickly stop/start a server

UGCC User Login button allows admins to login into the panel with the user's account info. The account info on the current page is used, so if user's password is different in the panel it won't work.

Order #	13 - View Order	Registration Date	09/27/2020															
Product/Service	Minecraft Java Edition	First Payment Amount	32.50															
Server	Local UGCC (1/200 Accour	Recurring Amount	32.50 <input type="checkbox"/> Auto Recalculate on Save															
Domain		Next Due Date	09/27/2020															
Dedicated IP		Termination Date																
Username	awh@brainless.us UGCC User Login	Billing Cycle	Monthly															
Password	*7cxjqBxN9i6i7	Payment Method	Mail In Payment View Invoices															
Status	Active	Promotion Code	None (Change will not affect price)															
Additional Player Slots	18 x Player Slots \$0.25 USD																	
Server CPU Priority	<input type="radio"/> Normal <input type="radio"/> High \$5.00 USD <input checked="" type="radio"/> Realtime \$10.00 USD																	
RAM Allowance	<input type="radio"/> 6 GB <input checked="" type="radio"/> 12 GB \$15.00 USD																	
Module Commands	Create Suspend Unsuspend Terminate Change Password Stop Server Start Server																	
Server Status	Running																	
Server Details	192.168.20.50:25590																	
Addons	<table><thead><tr><th>Reg Date</th><th>Name</th><th>Pricing</th><th>Status</th><th>Next Due Date</th></tr></thead><tbody><tr><td colspan="5">No Records Found</td></tr><tr><td colspan="5">Add New Addon</td></tr></tbody></table>			Reg Date	Name	Pricing	Status	Next Due Date	No Records Found					Add New Addon				
Reg Date	Name	Pricing	Status	Next Due Date														
No Records Found																		
Add New Addon																		
UID	10																	
SID	367																	
Location	Ohio																	
GCP Password																		
Subscription ID																		
Override Auto-Suspend	<input type="checkbox"/> Do not suspend until																	
Auto-Terminate End of Cycle	<input type="checkbox"/> Reason																	
Admin Notes																		

[Save Changes](#) [Cancel Changes](#)

Delete

[Send Message](#) [New Message](#) [Send Message](#) [Resend Product Welcome Email](#)

Sample admin product page

Client Management Page

The client's management page uses a custom template and is pretty simplistic. The idea is for the user to use the panel for managing their servers. Though this page does give them the status of their server, IP/Port information, and buttons to stop and start a server. The large 'Game Control Panel Login' button uses the product's username/password info to log in to the panel.

AppsLoginBrainless Tech - Ga...JSON Utils - Genera...Weather Undergro...VM10 UGCCMain Menu»Other bookmarks

Brainless Technologies Ltd.EnglishNotificationsNEWLogout

HomeServicesBillingSupportOpen TicketHello, Alan!

★ Overview

Information

Actions

Change Password

Start Server

Stop Server

Request Cancellation

Manage Product

Portal Home / Client Area / My Products & Services / Product Details

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You have an unpaid invoice. Pay it now to avoid interruption in service.

Pay Invoice

Overview

Access the GCP Login button below for more management features.

Server Status	Stopped
Server Information	192.168.20.50:25645

Product Details

Registration Date	Wednesday, September 9th, 2020
Product/Service	Game Servers - Minecraft Java Edition
Username	awh@brainless.us
Additional Slots	0 x Additional Player Slots \$0.25 USD
Location	Ohio
GCP Password	
Payment Method	Mail In Payment
First Payment Amount	\$3.00 USD
Recurring Amount	\$3.00 USD
Next Due Date	Wednesday, September 9th, 2020
Billing Cycle	Monthly
Status	Active

Game Control Panel Login

Powered by WHMCompleteSolution

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Example management page for Users

Customer order form

The order form allows the customer to specify a location (defined in the Product's module settings), additional player slots, CPU Priority Options, and RAM options, and a password. The password is useful if the customer already has a product setup in the panel.

Categories

Game Servers

+ Actions

View Cart

Configure

Configure your desired options and continue to checkout.

Minecraft Java Edition

12 Slot Minecraft Java Edition Server (You can add additional slots as part of checkout)

Choose Billing Cycle

\$3.00 USD Monthly

Configurable Options

Additional Player Slots

0 41 100

Server CPU Priority

☐ Normal

☐ High \$5.00 USD

☒ Realtime \$10.00 USD

RAM Allowance

☐ 6 GB

☒ 12 GB \$15.00 USD

Additional Required Information

Location

Ohio

Location of server (pick region closest to you)

GCP Password

Password to use with game server control panel, can be left blank for a random password. If you have multiple products, enter the password you're currently using. Min 8 characters, Upper/lower alphanumeric characters and symbols.

Have questions? Contact our sales team for assistance. Click here

Order Summary

Minecraft Java Edition

Game Servers

Minecraft Java Edition \$3.00 USD

» Additional Player Slots: 41 \$10.25 USD

» Server CPU Priority: Realtime \$10.00 USD

» RAM Allowance: 12 GB \$15.00 USD

Setup Fees: \$0.00 USD

Monthly: \$38.25 USD

\$38.25 USD

Total Due Today

Continue

Powered by WHMCompleteSolution

Example Order form users will see

Example product setup screenshots

The screenshot shows the WHMCS (Web Host Manager Complete Solution) interface. The browser address bar indicates the URL is `localhost:81/billing/admin/configproducts.php?action=edit&id=9`. The top navigation bar includes links for Home, Client Area, My Notes, My Account, and Logout. The WHMCS logo is prominently displayed, along with a status bar showing 1 Pending Order, 0 Overdue Invoices, and 0 Ticket(s) Awaiting Reply. A warning message states: "You are currently accessing the admin area using an insecure connection. We recommend using SSL encryption (https) for security. If you don't yet have an SSL Certificate, you can buy one here".

The left sidebar contains a Configuration menu with links to General Settings, Apps & Integrations, Sign-In Integrations, Automation Settings, MarketConnect, Notifications, Storage Settings, Application Links, OpenID Connect, Email Templates, Addon Modules, Client Groups, Custom Client Fields, and Fraud Protection. Below this is a Staff Management section with links to Administrator Users, Administrator Roles, Two-Factor Authentication, and Manage API Credentials. The Payments section includes links to Currencies, Payment Gateways, Tax Configuration, and Promotions. The Products/Services section is currently active, showing links to Products/Services, Configurable Options, Product Addons, Product Bundles, Domain Pricing, Domain Registrars, and Servers.

The main content area is titled "Products/Services" and "Edit Product". It features a tabbed interface with the following tabs: Details (selected), Pricing, Module Settings, Custom Fields, Configurable Options, Upgrades, Free Domain, Other, and Links. The "Details" tab contains the following fields:

- Product Type: Other (dropdown)
- Product Group: Game Servers (dropdown)
- Product Name: Minecraft Java Edition (text input)
- Product Description: 12 Slot Minecraft Java Edition Server (You can add additional slots as part of checkout) (text area). A note on the right states: "You may use HTML in this field" with examples: `
` New line, `Bold` Bold, and `Italics` Italics.
- Welcome Email: Other Product/Service Welcome Email (dropdown)
- Require Domain: ☐ Tick to show domain registration options
- Stock Control: ☐ Enable - Quantity in Stock: 0 (text input)
- Apply Tax: ☐ Tick this box to charge tax for this product
- Featured: ☐ Display this product more prominently on supported order forms
- Hidden: ☐ Tick to hide from order form
- Retired: ☐ Tick to hide from admin area product dropdown menus (does not apply to services already with this product)

At the bottom of the form are two buttons: "Save Changes" and "Cancel Changes".

A footer message states: "Dev License: This installation of WHMCS is running under a Development License and is not authorized to be used for production use. Please report any cases of abuse to abuse@whmcs.com".

Sample Details Tab of a Product

WHMCS - Products/Services

localhost:81/billing/admin/configproducts.php?action=edit&id=9#tab=3

Apps Login Brainless Tech - Ga... JSON Utils - Genera... Weather Undergro... VM10 UGCC Main Menu Hosted Engine Other bookmarks

Home Client Area My Notes My Account Logout Tuesday, 8 September 2020, 17:58

1 Pending Orders | 0 Overdue Invoices | 0 Ticket(s) Awaiting Reply

WHMCS

Clients Orders Billing Support Reports Utilities Addons Setup Help

You are currently accessing the admin area using an insecure connection. We recommend using SSL encryption (https) for security. If you don't yet have an SSL Certificate, you can [buy one here](#)

Configuration

- General Settings
- Apps & Integrations
- Sign-In Integrations
- Automation Settings
- MarketConnect
- Notifications
- Storage Settings
- Application Links
- OpenID Connect
- Email Templates
- Addon Modules
- Client Groups
- Custom Client Fields
- Fraud Protection

Staff Management

- Administrator Users
- Administrator Roles
- Two-Factor Authentication
- Manage API Credentials

Payments

- Currencies
- Payment Gateways
- Tax Configuration
- Promotions

Products/Services

- Products/Services
- Configurable Options
- Product Addons
- Product Bundles
- Domain Pricing
- Domain Registrars
- Servers

Products/Services

Edit Product

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

Module Name UGCC Provisioning Server Group None

Installer ID Win Minecraft-Window Enter ID of auto installer used in UGCC for Windows

Installer ID Linux Minecraft-Linux (n Enter ID of auto installer used in UGCC for Linux

Base Slots 12 Base Slot Count for this product. Any additional slots a customer adds will be added to this value to determine max slots.

Switch to Advanced Mode

☐ 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

Save Changes Cancel Changes

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localhost:81/billing/admin/configproducts.php?action=edit&id=9#ta...

Module settings example for a Product

Products/Services

Edit Product

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

Field Name

UID

Field Type

Text Box

Description

Used internally by module, do not set a value.

The explanation to show users

Validation

Regular Expression Validation String

Select Options

For Dropdowns Only - Comma Seperated List

☒ Admin Only

☐ Required Field

☐ Show on Order Form

☐ Show on Invoice

Field Name

SID

Field Type

Text Box

Description

Used internally by module, do not set a value.

The explanation to show users

Validation

Regular Expression Validation String

Select Options

For Dropdowns Only - Comma Seperated List

☒ Admin Only

☐ Required Field

☐ Show on Order Form

☐ Show on Invoice

Field Name

Location

Field Type

Drop Down

Description

Location of server (pick region closest to you)

The explanation to show users

Validation

Regular Expression Validation String

Select Options

Ohio,New York

For Dropdowns Only - Comma Seperated List

☐ Admin Only

☒ Required Field

☒ Show on Order Form

☐ Show on Invoice

Field Name

GCP Password

Field Type

Password

Description

Password to use with game server control panel, can be left blank for a r

The explanation to show users

Validation

/^(?=[*\d])(?=[*][A-Za-z])[0-9A-Za-z!@#%]{8,}\$/

Regular Expression Validation String

Select Options

For Dropdowns Only - Comma Seperated List

☐ Admin Only

☐ Required Field

☒ Show on Order Form

☐ Show on Invoice

Custom Fields for a Product