



# Dediseve Virtual Data Center For WHMCS Module

Installation & Configuration Instructions

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## 1.About

**Dediserve Virtual Data Center For WHMCS Module** is an advanced module which allows your customers to create/terminate machines under resources limits you defined. Machines are created on your OnApp reseller account.

### Basic Functionality:

- ✓ Create
- ✓ Terminate
- ✓ Upgrade/Downgrade Resource Limits
- ✓ Suspend/Unsuspend

### Product Configuration:

- ✓ Static Resources Per Product
- ✓ Configurable Option for Resources
- ✓ Configuration Of Available Client Area Features
- ✓ Connection Test

### Client Area Features:

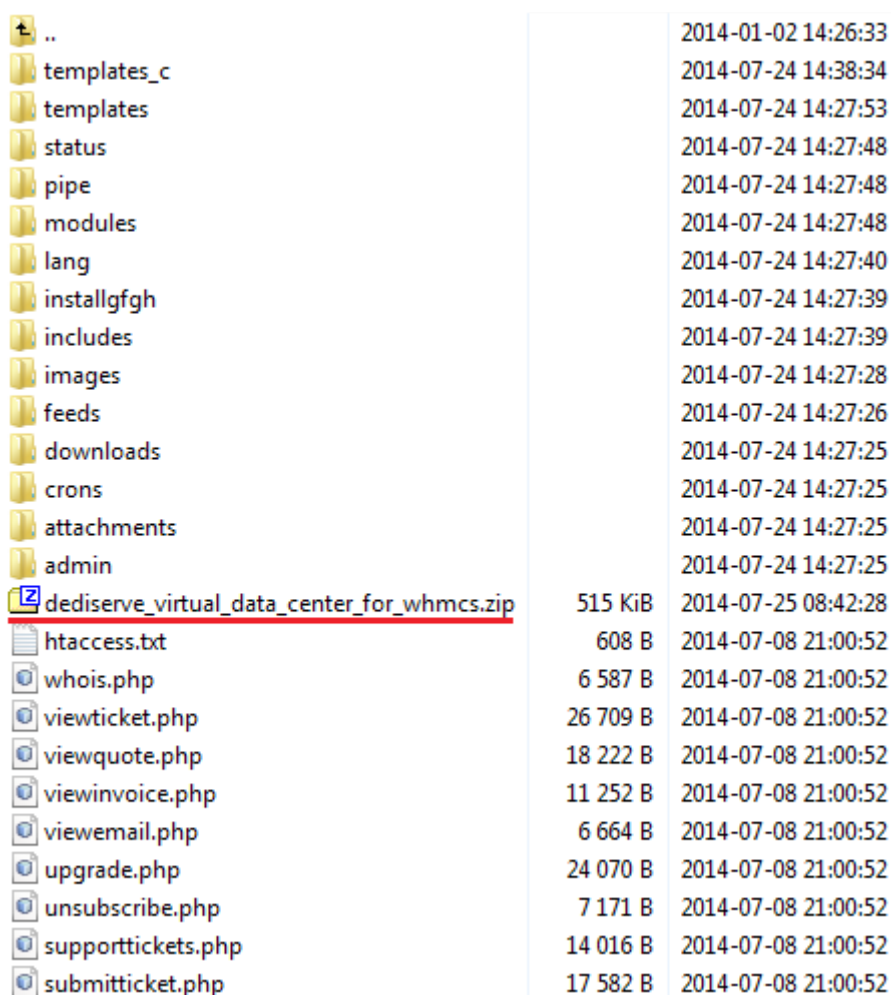
- ✓ Create/Terminate/Edit VM
- ✓ Upgrade/Downgrade VM
- ✓ VM Basic Commands
  - Start/Stop
  - Shutdown
  - Reboot
  - Startup On Recovery
  - Rebuild
  - Console
- ✓ Firewall Management
- ✓ IP Management
- ✓ Network Management
- ✓ CPU Usage Graphs
- ✓ Disks Management
- ✓ Restore VM From Backup
- ✓ VM Activity Logs

### Additionally:

- ✓ Supports WHMCS V5 and Later

## 2. Installation

1. Download **Dediserve Virtual Data Center For WHMCS Module**.
2. Upload **Dediserve Virtual Data Center For WHMCS Module** archive file to your server into WHMCS root directory.



..		2014-01-02 14:26:33
templates_c		2014-07-24 14:38:34
templates		2014-07-24 14:27:53
status		2014-07-24 14:27:48
pipe		2014-07-24 14:27:48
modules		2014-07-24 14:27:48
lang		2014-07-24 14:27:40
installgfg		2014-07-24 14:27:39
includes		2014-07-24 14:27:39
images		2014-07-24 14:27:28
feeds		2014-07-24 14:27:26
downloads		2014-07-24 14:27:25
crons		2014-07-24 14:27:25
attachments		2014-07-24 14:27:25
admin		2014-07-24 14:27:25
<u>dediserve_virtual_data_center_for_whmcs.zip</u>	515 KiB	2014-07-25 08:42:28
htaccess.txt	608 B	2014-07-08 21:00:52
whois.php	6 587 B	2014-07-08 21:00:52
viewticket.php	26 709 B	2014-07-08 21:00:52
viewquote.php	18 222 B	2014-07-08 21:00:52
viewinvoice.php	11 252 B	2014-07-08 21:00:52
viewemail.php	6 664 B	2014-07-08 21:00:52
upgrade.php	24 070 B	2014-07-08 21:00:52
unsubscribe.php	7 171 B	2014-07-08 21:00:52
supporttickets.php	14 016 B	2014-07-08 21:00:52
submitticket.php	17 582 B	2014-07-08 21:00:52

Fig.1. WHMCS root directory with module archive file

3. Extract **Dediserve Virtual Data Center For WHMCS Module**. You do not have to copy each file individually because all the files will automatically appear in the right localizations.

4. In order to proceed, go to **Setup → Products/Services → Server** and press **Add New Server**. Afterwards, enter your server name, IP address (or hostname), username and password. Choose **dediserveVirtualDataCenter** from a dropdown menu, check secured connection and press **Save Changes**.
5. It is time to create server group, to do so click on **Create Server Group**. Enter server group name, click on your previously created server, press **Add** and afterwards **Save Changes**.
6. To create a product, go to **Setup → Products/Services → Products**. Click on **Create a New Group**, afterwards enter product group name and press **Save Changes**.
7. When you have a product group, you can create your product. Press **Create a New Product**. Next, select **Product Type** and **Product Group** from dropdown menus. Enter **Product Name** and press **Continue**.
8. Select **dediserveVirtualDataCenter** and your previously created server group from dropdown menus and click **Save Changes**.
9. Choose **Available OS Templates**, **Data Store Zone**, **SWAP: Data Store Zone**, **Network Zone**, **Hypervisor Zone** and **Hypervisor**. Afterwards enter your VM User-friendly VM description and press **Save Changes**.
10. Last step is generating custom fields and configurable options. To do so, press on both **Generate default texts** near **Custom Fields** and **Configurable Options** and press **Save Changes**.

Congratulations, you have just successfully installed **Dediserve Virtual Data Center For WHMCS Module**! On the screen below you can see your module client area service management.



## Virtual Data Center

Information Addons Management Actions

### Information

Here is an overview of your product/service with us.

« Back to Services List

**Registration Date:**

25/07/2014

**Product/Service:**

Dediseive - Virtual Data Center **Active**  
mytestingdomain.com

**Recurring Amount:**

\$0.00 USD

**Next Due Date:**

-

**Billing Cycle:**

Free Account

**Payment Method:**

-

+ Create Virtual Server

#### Your Virtual Servers:

Hostname	Active	
No virtual servers yet		

#### Your Resources:

Virtual Servers	0 Used
Memory	0 B Used
CPU(s)	0 Used
Disk Size	0 B Used
IP Adresses	0 Used
Port Speed	0 Mbps Used

Fig.2. Client area service management page

## 2.1. Example Settings

In module settings tab you can set up all options of **Dediserve Virtual Data Center For WHMCS** product. Additionally, underlined settings can be replaced with dynamic settings in the form of configurable options. On the following screens you can view sample configuration of the product.

Products/Services Help

Edit Product

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

Module Name

Server Group

Configurable Options [Generate default](#) Custom Fields [Generate default](#)

**Resources**

VM Limit \*  Default Memory Limit \*  [MB]

Default CPU Limit \*  Default Disk Size \*  [GB]

**OS Template**

Template Group  Available OS Templates \*

**Storage**

Data Store Zone \*  SWAP: Data Store Zone \*

Primary Disk Min Iops  Swap Disk Min Iops

**Networks**

IP Addresses count \*  Max Port Speed \*

Network Zone \*  Hypervisor Zone \*

Hypervisor \*

Fig.3. Module settings tab with sample settings, part I

Additionalis	
User-friendly VM description	Virtual Machine created wit
Licensing Server Id	
Licensing Key	
Virtual Machine Build	Yes
Type Of Filesystem	ext3
Licensing Type	
Automatic Backup	No
Use HTML5 Console	No
Disallow certain actions in clientarea	
Firewall Management	<input checked="" type="checkbox"/>
Network Management	<input checked="" type="checkbox"/>
Disk Management	<input checked="" type="checkbox"/>
IP Management	<input checked="" type="checkbox"/>
CPU Usage Graphs	<input checked="" type="checkbox"/>
Backups	<input checked="" type="checkbox"/>
<input type="radio"/> Automatically setup the product as soon as an order is placed	
<input type="radio"/> Automatically setup the product as soon as the first payment is received	
<input type="radio"/> Automatically setup the product when you manually accept a pending order	
<input checked="" type="radio"/> Do not automatically setup this product	

Save Changes

Back to Product List

Fig.4. Module settings tab with sample settings, part II



## 3. Configuration & Management

### 3.1. Admin Area Client Management Page

From admin area client management page you can order **Create** (1), **Suspend** (2), **Unsuspend** (3), **Terminate** (4) and **Change Package** (5). You are also able to view product resource usage (6).

#### Clients Profile

Active Client:

Products:

Order #	1 - <a href="#">View Order</a>	Registration Date	25/07/2014
Product/Service	<input type="text" value="Virtual Data Center"/>	First Payment Amount	0.00
Server	<input type="text" value="DediServe (1/200 Accounts)"/>	Recurring Amount	0.00 <input type="checkbox"/> Auto Recalculate on Save
Domain	<input type="text" value="mytestingdomain.com"/> <a href="#">WWW</a> <a href="#">whois</a> <a href="#">intoDNS</a>	Next Due Date	N/A
Dedicated IP	<input type="text"/>	Billing Cycle	Free
Username	<input type="text" value="mytestin"/>	Payment Method	<input type="text"/> <a href="#">View Invoices</a>
Password	<input type="text" value="1l6X72dKq"/>	Promotion Code	None (Change will not affect price)
Status	Active	Subscription ID	<input type="text"/>

Module Commands

6. Resources	<b>Field</b>	<b>Used / Limit</b>
	Cpus	1 / 4
	Memory	512 MB / 3.91 GB
	Disk Size	10 GB / 50 GB
	Ips	1 / 4
	Vm	1 / 4
Rate Limit	0 / Unlimited	

Reg Date	Name	Pricing	Status	Next Due Date
Addons No Records Found				
<a href="#">Add New Addon</a>				

User ID

Fig.5. Admin area client management page with marked functionalities

### 3.2. Client Area Service Management Page

At the client area service management page you can add virtual servers (1), manage existing virtual servers (2) and view resource usage (3).

The screenshot shows the WHMCS interface. At the top is the WHMCS logo and a navigation bar with links: Home, Services, Domains, Billing, Support, Open Ticket, and a user greeting 'Hello, Test!'. Below this is the 'Virtual Data Center' section with tabs for Information, Addons, and Management Actions. The 'Information' tab is active, showing details about the service: Registration Date (25/07/2014), Product/Service (Dediseive - Virtual Data Center, Active), mytestingdomain.com, Recurring Amount (\$0.00 USD), Next Due Date (-), Billing Cycle (Free Account), and Payment Method (-). A '« Back to Services List' button is also present. Below the information is a box titled 'Your Virtual Servers:' with a '+ Create Virtual Server' button (marked 1). It contains a table with one server, 'FirstOne', which is active (marked with a green checkmark and '2.'). To the right of the server name are 'Manage' and 'Delete' buttons. Below this is a box titled 'Your Resources:' (marked 3.) containing a table of resource usage.

Your Resources:	
Virtual Servers	1 Used
Memory	512 MB Used
CPU(s)	1 Used
Disk Size	10 GB Used
IP Addresses	1 Used
Port Speed	0 Mbps Used

Fig.6. Client area service management page with marked functionality groups

### 3.2.1. Adding New Virtual Server

Adding VM is quite simple, firstly press on **Create Virtual Server** button. Afterwards, enter its **Label**, **Hostname** and **Root Password**, select **Template** and set its resource using sliders. You can also specify data stores as well as network zone using dropdown menus. **Licensing Key** is required only for the Windows OS, for other OS leave it blank. When you have finished, press **Add New Virtual Server** button.

The screenshot shows the WHMCS interface for adding a new virtual server. The form is titled 'New Server Details' and includes the following fields and controls:

- Label:** Text input field with 'FirstOne' entered.
- Hostname:** Text input field with 'FirstOne' entered.
- Template:** Dropdown menu showing 'Arch Linux 2011.08 x64'.
- Root Password:** Password input field with masked characters.
- Licensing Key:** Text input field.
- Memory:** Slider control ranging from 128 to 3488 MB, with a value of 512 MB selected.
- CPU(s):** Slider control ranging from 1 to 3, with a value of 1 selected.
- Primary Disk Size:** Slider control ranging from 5 to 40 GB, with a value of 10 GB selected.
- Primary Data Store:** Dropdown menu showing 'onapp-datastores'.
- Swap Disk Size:** Slider control ranging from 0 to 40 GB, with a value of 0 GB selected.
- Swap Data Store:** Dropdown menu showing 'onapp-datastores'.
- IP Addresses:** Slider control ranging from 0 to 3, with a value of 1 selected.
- Port Speed:** Slider control ranging from 0 to 0 Mbps, with a value of 0 Mbps selected.
- Network Zone:** Dropdown menu showing 'private'.

At the bottom left of the form, there is a blue button labeled 'Add New Virtual Server' with a red arrow pointing to it.

Powered by WHMCompleteSolution  
Fig.7. Adding Virtual Server

### 3.2.2. Management Of Virtual Server

You can manage each of your VM, you can order such actions as start (1), stop (2), shutdown (3), reboot (4), startup on recovery (5), rebuild (6), access VM console (7) and edit your VM (8). Additionally, you can manage VM firewall (9), view assigned IP addresses and order network rebuild (10), manage network interfaces (11), view usage graph (12), order backups and manage disks (13) and restore VM from backup (14). Freshly created Dediserve Virtual Data Center product does not have access to features 9-14. You can easily enable it, you will find more information at **Additional Tools** section of this document. Our module also shows you VM details (15) and VM activity logs (16).

**WHMCS**

Home Services Domains Billing Support Open Ticket Hello, Test!

← Back To Service

**Manage Your Server:**

1. Start VM
2. Stop VM
3. Shutdown VM
4. Reboot
5. Startup On Recovery
6. Rebuild
7. Open Console
8. Edit VM

**Additional Tools:**

9. Firewall Management
10. IP Management
11. Network Management
12. CPU Usage Graphs
13. Disk Management
14. Backups

**15. Virtual Server Details:**

Refresh Details:	
Label	FirstOne
Booted	Yes
Built	Yes
Recovery Mode	No
CPU(s)	1
Memory Size	512 MB
Primary Disk Size	10 GB
Swap Disk Size	0 GB
Monthly Bandwidth Used	0 MB
IP Address	192.168.1.11
Template	Arch Linux 2011.08 x64
Created At	2014-07-25 10:25:08
Last Update	2014-07-25 10:28:35

**16. Activity Logs**

Date	Action	Status
2014-07-25 10:25:09	Startup Virtual Machine	Complete
2014-07-25 10:25:09	Configure Operating System	Complete

Fig.8. Virtual Machine management page

### 3.3. Management Of Additional Tools

In order to allow your client to use additional features, go to your product → **Modules Settings**. Afterwards, uncheck tools you want to allow for your clients and press **Save Changes**.

**Additional**

User-friendly VM description: Virtual Machine created with  
Licensing Server Id:   
Licensing Key:   
Virtual Machine Build: Yes ☐  
Type Of Filesystem: ext3  
Licensing Type:   
Automatic Backup: No ☐  
Use HTML5 Console: No ☐

**Disallow certain actions in clientarea**

Firewall Management ☐  
Network Management ☐  
Disk Management ☐  
IP Management ☐  
CPU Usage Graphs ☐  
Backups ☐

☐ 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

Fig.9. Module settings with marked additional tools

### 3.4. Management Of Resources

**Dediseive Virtual Data Center For WHMCS Module** allows you to set product in two ways, with predefined resources (static) or resources amount chosen by client (dynamic).

#### 3.4.1. Static Setup

1. Go to your previously created product → **Module Settings** and fill in the fields in **Resources** section. These will be limits for your product as soon as you unassign configurable product.

Products/Services



Edit Product

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

Module Name: DediseiveVirtualDataCenter  
Server Group: Dediseive

Configurable Options [Generate default](#) Custom Fields [Generate default](#)

**Resources**

VM Limit \* 4  
Default CPU Limit \* 4  
Default Memory Limit \* 4000 [MB]  
Default Disk Size \* 50 [GB]

**OS Template**

Template Group: All Templates  
Available OS Templates: -- not specified --, Arch Linux 2011.08 x64, CentOS 5.3 x64 xen, CentOS 5.5 Apache x64

**Storage**

Data Store Zone \* onapp-datastores  
Primary Disk Min Iops  
SWAP: Data Store Zone \* onapp-datastores  
Swap Disk Min Iops

**Networks**

IP Addresses count 4  
Network Zone \* private  
Hypervisor \* dev10-hv2  
Max Port Speed \*  
Hypervisor Zone \* OnApp London

Fig.10. Module settings with marked resources limits

2. Go to **Configurable Options** tab, uncheck highlighted option (Ctrl+click) and press **Save Changes**.

You have successfully created product with static resources!

### 3.4.2. Dynamic Setup

Dynamic product setup allows your client to define amount of resources he needs.

1. Go to **Setup → Products/Services → Configurable Options**.
2. Edit **Configurable options for dediserveVirtualDataCenter** assigned to product you want to set dynamic pricing for.
3. Alter first configurable option. New window will be opened, so make sure your browser will not block it. You can edit options by typing in their textboxes (1). Afterwards press **Save Changes**. Sample configuration is shown on the screen below.

#### Configurable Options

Option Name:  Option Type:

Options		One Time/ Monthly	Quarterly	Semi-Annual	Annual	Biennial	Triennial	Order	Hide
2 2	USD	Setup	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	1.00	0.60	-1.00	-1.00	-1.00		
1. 3 3	USD	Setup	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	1.75	1.10	-1.00	-1.00	-1.00		
5 5	USD	Setup	0.00	0.00	0.00	0.00	0.00	0	<input type="checkbox"/>
		Pricing	4.00	2.25	-1.00	-1.00	-1.00		
Add Option: <u>2.</u>								0	<input type="checkbox"/>




Fig.11. Sample configurable options

4. To add new record simply enter it in textbox (2) and click **Save Changes** button. To add multiple options repeat this step several times. When you have finished altering this configurable option press **Close Window** button.
5. Repeat steps 3 and 4 with the rest of configurable options. Afterwards, press **Save Changes**.

Your product with dynamic resources is ready for use!