

# HC Virtualization Module Configuration

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## Proprietary Notice

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## Target Audience

The sole purpose of this document is to provide complete information of Virtualization Server configuration in Hosting Controller.

Target audience includes developers who want to configure Virtualization module in HC. This guide supplies detailed information of HC panel and Virtualization module in a comprehensive manner. It is specifically written with a view point to provide easy and quick understanding of all the technicalities of the configuration process.

Please, read this document to have absolute information and to avoid any type of ambiguity related to Virtualization Server configuration.

## Document Conventions

Terms/Symbols	Meanings
<b>BOLD</b>	The <b>Bold</b> text is used to highlight command operations in the document.
	This symbol is used for <b>TIP</b> . It provides additional information regarding the term being explained. For differentiation, tips are <i>Italic and Green</i> .
	This symbol is used for <b>Note</b> . It highlights some steps that cannot be skipped or should be followed as stated to avoid errors and confusion. For differentiation, notes are <i>Italic and Navy Blue</i> .

## About Virtualization and Hyper-V

By Virtualization we mean having separate operating systems from the actual operating system of the Web server. It is therefore be said that any damage caused to the virtual operating system will not effect the actual operating system. It is just like a separate OS or computer within the real computer.

Microsoft Hyper-V Server is a stand-alone product that provides reliable and optimized virtualization solutions. Thus, enabling organizations to improve server utilization and reduce costs. HC Virtualization module provides automated provisioning and management of MS Hyper-V server. It offers virtualization through a centralized administration interface for creating new virtual machines and managing all user activation related tasks in an organized manner.

## About Xen

The Xen® hypervisor, the powerful open source industry standard for virtualization, offers a powerful, efficient, and secure feature set for virtualization.

For more information regarding Xen® hypervisor, please refer to <http://www.xen.org>

## HC Help

You can have quick information regarding HC panel with this manual but if you are unsure how to do something or you have any problem, try the following approaches:

- **Online Help / Manuals** - Refer to the online user manuals for more assistance.
- **Support Forums** - You can ask questions on HC Forums  
<http://forum.hostingcontroller.com>
- **Knowledgebase** - For any additional information, please visit  
<http://hostingcontroller.com/English/support/kb/search.html>
- **FAQs** - You can check the list of Frequently Asked Questions in case of any ambiguity <http://hostingcontroller.com/english/support/FAQ/index.html>
- **Quick Help** - For your ease, every page of panel contains a built-in help section that provides brief description about the page (being viewed).

## HC Virtualization Module Configuration for Windows

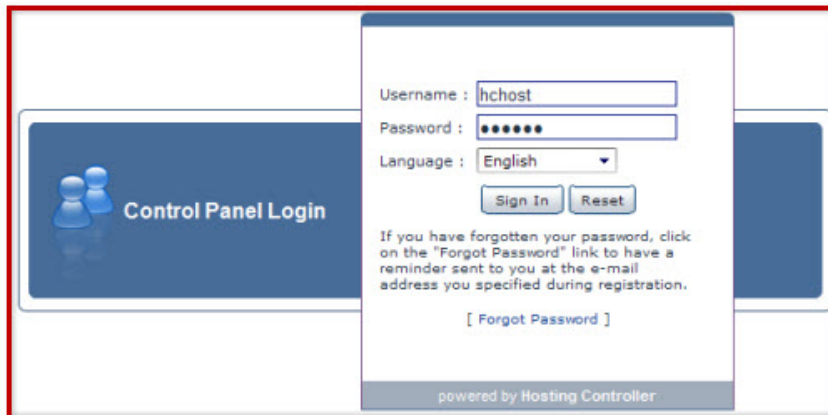
### Logging on to HC Panel

To log on to HC panel:

1. Type address `http://localhost:8787` in any web browser.
2. Type user credentials to log on to HC panel.



Type address in any browser to access HC panel.



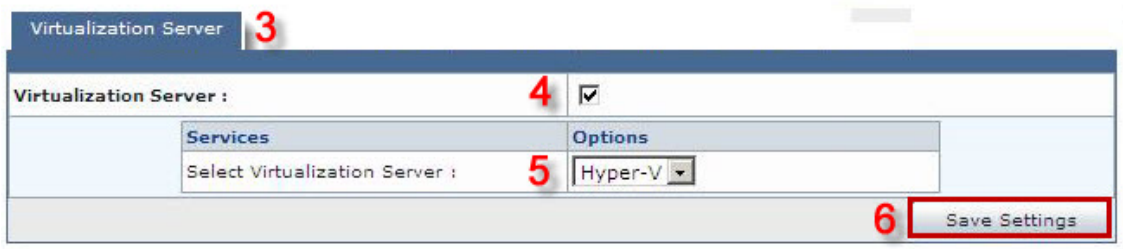
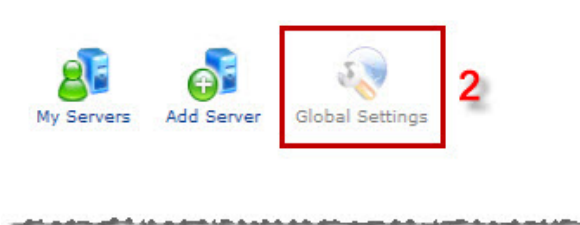
Type user credentials to log on to HC panel.

## Enabling Virtualization Server

To enable virtualization server:

1. Log on to **HC** panel.
2. From the left menu click **General**, and then **Server Manager**.  
Server Manager page is displayed.
3. Click **Global Settings**.  
The Global Settings page is displayed.
4. Click **Virtualization Server** tab under **Windows Family**.  
The Virtualization Server page is displayed.
5. Select the check box in the right column.  
Services and options of the virtualization server are displayed.
6. Select Hyper-V from the drop-down list box.
7. Click **Save Settings**.  
The Virtualization Server is enabled.

### Enabling Virtualization Server





## Adding a Virtualization Server



Prior to add a Virtualization Server, go to **Global Settings** and enable the **Virtualization Server** role.

To add a virtualization server:

1. Log on to **HC** panel.
2. From the left menu click **General**, and then **Server Manager**.  
Server Manager page is displayed.
3. Click **Add Server**.  
The Add Server page is displayed.
4. Click the **Friendly Name** arrow and select the required server from the drop-down list box.



- The **Primary IP Address** shows the IP address of the server to be added.
- The **Operating System** shows the platform (Windows/Linux) of the server to be added.

5. Under **Server Role**, select the **Virtualization Server** check box.



Every server can have one or more role(s) in the cluster. These roles need to be set every time a new server is added to the cluster.

6. Under **Role Capacity**, type the number of **Virtual Machines** supported by the server.
7. Under **Purposing**, click the arrow and select the end user for the server from the drop-down list box.



The server role added in the cluster can be used either dedicatedly for a Reseller or for shared hosting. A role dedicated to a Reseller can not be used for any other user.



- In case of only one server in the cluster, choose **Everyone**.
- In case of more than one server, choose **ResellerOnly** to dedicate server to particular Reseller.

8. Click **Next**.  
The Virtualization Server configurations page is displayed.



To provide all the paths, click **Browse** and enter the required path.

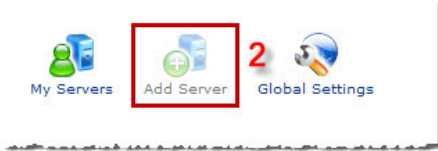
9. Specify **General Information**:
  - **Server Name**: Type name of the server.
  - **Administrator**: Type name of the administrator.



The format for administrator's name is "domain\administrator".

- **Password:** Type password for the administrator.
  - **Confirm Password:** Re-type the password.
10. Specify the **Virtualization Server Information:**
- **Hyper-V Root Path:** Enter path for the Hyper-V root.
11. Specify the **Network Information:**
- **External Network:** Select external network from the drop-down list box.
  - **Preferred DNS:** Type preferred DNS.
  - **Alternate DNS:** Type alternate DNS.
  - **Internal Network:** Select internal network from the drop-down list box.
12. Click **Add Server**.  
A Virtualization Server is added.

**Adding a Virtualization Server**



**Add a Server**

Friendly Name : Exg **3**

Primary IP Address : 192.168.0.123

Operating System : Windows Family

**What is the Role of this Server in the Cluster?**

Server Role	Role Capacity	Purposing
<input type="checkbox"/> Web Server	700 Websites	Everyone(Reseller, End User)
<input checked="" type="checkbox"/> <b>4</b> Virtualization Server	30 Virtual Machines	Everyone(Reseller, End User)

**5** Next >>

**Virtualization Server**

**General Information**

Server Name : Exg

Administrator : exchange\administr

Password : \*\* \*

Confirm Password : \*\* \*

**Virtualization Server Information**

Hyper-V Root Path : e:\HC-VM Browse **6** Specify required information.

**Network Information**

External Network : External Network

Preferred DNS : 192 . 168 . 0 . 1

Alternate DNS : 192 . 168 . 0 . 2

Internal Network : Internal Network

**7** Add Server

## Editing a Virtualization Server

To edit a virtualization server:

1. Log on to **HC** panel.
2. From the left menu click **General**, and then **Server Manager**.  
Server Manager page is displayed.
3. Select the required server to modify its information
4. Click **Edit Server**.  
The Edit Server page is displayed.
5. Select **Virtualization Server** check box.
6. Click **Save & Edit Roles**.  
The Virtualization Server configurations page is displayed.
7. Modify the information as required.
8. Click **Update Virtualization Role**.  
The Virtualization Server is modified.

**Editing a Virtualization Server**



**Manage Your Servers** Total Servers : 1

Server Name	Primary IP Address	OS Family	Licensing Status	Build Number	Status
<input checked="" type="radio"/> Exg <b>2</b>	192.168.0.123	Windows	Licensed ( activated )	8.00.0009	Running

Page : 1 of 1  
Records Per Page : 10

**3**  
Edit Server  
Delete

**Edit Server**

Friendly Name : **Exg**

Primary IP Address : **192.168.0.123**

Operating System : **Windows Family**

**What is the Role of this Server in the Cluster?**

Server Role	Role Capacity	Purposing
<input type="checkbox"/> Web Server	700 Websites	Everyone(Reseller, End User) ▼
<input type="checkbox"/> DNS Server	500 DNS Zones	Everyone(Reseller, End User) ▼
<input type="checkbox"/> Database Server	300 Databases	Everyone(Reseller, End User) ▼
<input checked="" type="checkbox"/> <b>4</b> Virtualization Server	30 Virtual Machines	Everyone(Reseller, End User) ▼ <b>5</b>

Save Roles Save & Edit Roles

**Virtualization Server**

**General Information**

Server Name :

Administrator :

Password :

Confirm Password :

**Hyper-V Information**

Hyper-V Root Path :  Browse

**Network Information**

External Network :

Preferred DNS :  .  .  .

Alternate DNS :  .  .  .

Internal Network :

**7** Update Virtualization Role

**6**

Modify information as required.

## Adding an OS Template

To add an OS template:

1. Log on to **HC** panel.
2. From the left menu click **System**, and then **My Server**.  
My Server page is displayed.
3. Click **OS Templates** under **Virtualization Server Settings** menu.  
The OS Templates page is displayed.
4. Click **Add OS Template**.  
The Add OS page is displayed.
5. Specify the following information:
  - **Virtualization Server:** Select server for virtualization from the drop-down list box.
  - **Template Name:** Type name of the template for the OS.
  - **Base OS Type:** Select type of Base OS from the drop-down list box.



*It is the type of Operating System installed on the hard disk that is being selected as OS template.*

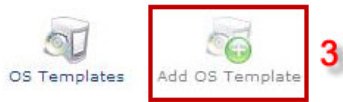
- **Virtual Hard Disk Path:** Enter path for the Virtual Hard Disk.



*This is the path for Host's Virtual Hard Disk, where templates are created.*

6. Click **Add OS Template**.  
An OS Template is added.

### Adding an OS Template



#### Add OS Template

**OS Template Information**

Virtualization Server :	Exg (192.168.0.123)	
Template Name :	Win-2003-Ent-x86 *	Specify required information. 4
Base OS Type :	Windows Server 2003 Enterprise	
Virtual Hard Disk Path :	f:\master vhds\windows 2003\WIN2K3	<input type="button" value="Browse"/>
		5 <input type="button" value="Add OS Template"/>

## Assigning Public IP Address

To assign public IP addresses:

1. Log on to **HC** panel.
2. From the left menu click **System**, and then **My Server**.  
My Server page is displayed.
3. Click **Public IP Addresses** under **Virtualization Server Settings** menu.  
The Public IP Address Manager page is displayed.
4. Click **Add Public IPs**.
5. Specify the following information:
  - **IP Address Range:** Type starting and ending range of IP addresses.
  - **Subnet Mask:** Type Subnet Mask.
  - **Default Gateway:** Type IP address of the Default Gateway.
6. Click **Add Public IPs**.  
The specified IPs are added.

### Assigning Public IP Addresses



**IP Manager (Public IPs)**

Select Server :

IP Address	Subnet Mask	Gateway	Status	Action
192.168.0.2	255.255.255.255	192.168.0.1	Available	Delete
192.168.0.3	255.255.255.255	192.168.0.1	Available	Delete
192.168.0.4	255.255.255.255	192.168.0.1	Available	Delete
192.168.0.5	255.255.255.255	192.168.0.1	Available	Delete

3

IP Address Range :  .  .  .  To

Subnet Mask :  .  .  .

Default Gateway :  .  .  .

4 Specify required information.

5



## Assigning Private IP Address

To assign private IP address:

1. Log on to **HC** panel.
2. From the left menu click **System**, and then **My Server**.  
My Server page is displayed.
3. Click **Private IP Addresses** under **Virtualization Server Settings** menu.  
The Private IP Addresses page is displayed.
4. Click **Add Private IPs**.
5. Specify the following information:
  - **IP Address Range:** Type starting and ending range of IP addresses.
  - **Subnet Mask:** Type Subnet Mask.
  - **Default Gateway:** Type IP address of the Default Gateway.
  - **Preferred DNS:** Type the preferred DNS.
  - **Alternate DNS:** Type any alternate DNS.
6. Click **Add Private IPs**.  
The specified IPs are added.

**Assigning Private IP Address**



**IP Manager (Private IPs)**

Select Server : Exg (192.168.0.123) ▾

IP Address	Subnet Mask	Gateway	Preferred DNS	Alternate DNS	Status	Action
192.168.0.2	255.255.255.255	192.168.0.1	192.168.0.1	192.168.1.1	Available	Delete
192.168.0.3	255.255.255.255	192.168.0.1	192.168.0.1	192.168.1.1	Available	Delete
192.168.0.4	255.255.255.255	192.168.0.1	192.168.0.1	192.168.1.1	Available	Delete
192.168.0.5	255.255.255.255	192.168.0.1	192.168.0.1	192.168.1.1	Available	Delete
192.168.0.6	255.255.255.255	192.168.0.1	192.168.0.1	192.168.1.1	Available	Delete

**3** [ Add Private IPs ]

IP Address Range :  .  .  .  To

Subnet Mask :  .  .  .

Default Gateway :  .  .  .  **4** Specify required information.

Preferred DNS :  .  .  .

Alternate DNS :  .  .  .

**5** Add Private IPs

## Adding a Hosting Plan



HC enables resellers to set up and customize any number of hosting plans for their customers (webadmins). Resellers can set up the name, description, status, visibility and cancellation policy.

To add a hosting plan:

1. Log on to **HC** panel.
2. From the left menu click **Hosting Manager**, and then **Hosting Plans**.  
The My Plans page is displayed.
3. Click **Add Plan**.  
The Add Plan page is displayed.
4. Specify the **General Information**:
  - **Plan Name:** Type name of the plan.
  - **Plan Description:** Type brief description of the plan.
  - **Cancellation Policy:** Type cancellation policy for the plan.
  - **Plan Type:** Select type of the plan from the drop-down list box.



Available options for **Plan Type** are:

- Windows
- Linux

- **Visible to All Resellers:** Select **Yes** check box to make this plan visible to all resellers.
- **Visible to Selected List of Resellers:** Select required check boxes to make this plan visible to only selected resellers.
- **Plan Status:** Select status of the plan from the drop-down list box.

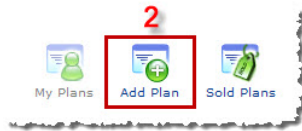


Available options for **Plan Status** are:

- Available
- Unavailable

5. Click **Next**.  
The Plan Resources page is displayed.
6. Specify the **Plan Resources** information:
  - **Quantity:** Type the quantity of the resource.
  - **Unlimited:** Select this check box to allocate unlimited quota for any resource.
  - **Excluded:** Select this check box to exclude any resource from the plan.
7. Click **Add Plan**.  
A plan is added.

**Adding a Hosting Plan**



**General Information** ← 3

**Basic Information**

Plan Name :  \*

Plan Description :

Cancellation Policy :

Plan Type :

Visible to all Resellers :  Yes

Visible to selected list of Resellers :

- attiqueres
- demoreseller
- hcfreeres
- HC-TECH

Plan Status :

4 Specify required information.

5

6 → **Plan Resources** 7 Specify required information.

Plan Resources	Quantity	<input type="checkbox"/> Unlimited	<input type="checkbox"/> Excluded
User Accounts :	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="checkbox"/>
Domains :	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="checkbox"/>
DNS Zones :	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sub-Domains :	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="checkbox"/>
ODBC DSN :	<input type="text" value="5"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Disk Space &amp; Bandwidth</b>			
Disk Space (MB) :	<input type="text" value="250"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bandwidth (MB) :	<input type="text" value="500"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Virtualization</b>			
Virtual Machines :	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="checkbox"/>
RAM Size (MB) :	<input type="text" value="512"/>		
Hard Drive Size (GB) :	<input type="text" value="2"/>		
CPU Cores :	<input type="text" value="1"/>		
Number of Snapshots :	<input type="text" value="3"/>		
Number of External IP Addresses :	<input type="text" value="4"/>		
Number of Internal IP Addresses :	<input type="text" value="1"/>		

8

## Adding a Virtual Machine

To add a virtual machine:

1. Log on to **HC** panel as a Reseller.
2. From the left menu click **Tools**.  
The Tools options are displayed.
3. Click **Virtualization Manager** under **System Services**.  
The Virtualization Manager page is displayed.
4. Click **Add Virtual Machine**.  
The Add Virtual Machine page is displayed.
5. Specify the **General Information**:
  - **Virtual Machine Name**: Type name of the machine to be created.
  - **Description**: Type brief description of the machine.



*The **Administrator Name** shows name of the machine administrator.*

- **Administrator Password**: Type password for the machine administrator.
- **Confirm Password**: Re-type password for the machine.
- **Virtual Machine Owner**: Select owner of the machine from the drop-down list box.



*Select **Webadmin** as machine owner. You can create a new user if required. To create a new user as machine owner, select **Create New User** from the drop-down list box.*

6. Specify the **OS Template Information**:
  - **OS Template**: Select an OS template for the machine from the drop-down list box.
7. Specify the **Virtual Machine Settings**:
  - **CPU Cores**: Select number of CPU cores to allocate to the machine from the drop-down list box.
  - **DVD Drive**: Select the **DVD Installed** check box to install a DVD drive.
  - **RAM Size**: Type the size of the RAM.
  - **Virtual Hard Disk Size**: Type the size of the Hard Disk.
  - **Number of Snapshots**: Type number of snapshots to be added for the machine.
  - **External Network**: Select to enable the external network.
  - **Number of External IPs**: Type number of external IPs to be added for the machine.
  - **Internal Network**: Select to enable the internal network.
  - **Number of Internal IPs**: Type number of internal IPs to be added for the machine.
8. Click **Next**.  
The Virtual Machine Summary page is displayed.



The **Virtual Machine Summary** page shows detailed information of the machine being created.



If in the previous step, selection for Virtualization Machine Owner is **Create New User** then **Plan Information** page is displayed instead of **Virtual Machine Summary** page.

Specify user and web server information if the **Plan Information** page is displayed.

**User Information:**



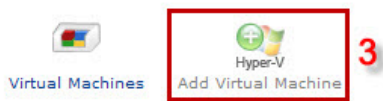
- **Administrator Name:** Type name of the new machine owner to be created.
- **Administrator Password:** Type password of the new machine owner.
- **Confirm Password:** Re-type password of the new machine owner.
- **First Name:** Type the first name of the machine owner.
- **Last Name:** Type the last name of the machine owner.
- **Email Address:** Type the email address of the machine owner.
- **Description:** Type a brief description of the machine owner.

**Hosting Plan Information:**

- **Sell this Plan:** Select a hosting plan from the drop-down list box.

12. Click **Create Virtual Machine**.  
The Virtual Machine is added.

### Adding a Virtual Machine



Add Virtual Machine

General Information	
Virtual Machine Name :	winvm1 * [Remaining : 10]
Description :	First Windows Virtual Machine
Administrator Name :	Administrator
Administrator Password :	***** *
Confirm Password :	***** *
Virtual Machine Owner :	-- Create New User --
OS Template Information	
OS Template :	Win-2003-Ent-x86
Virtual Machine Settings	
CPU Cores :	1 [Remaining : 10]
DVD Drive :	<input type="checkbox"/> DVD Installed
Ram Size (MB) :	512 * [Remaining : 10240]
Virtual Hard Disk Size (GB) :	5 * [Remaining : 100]
Number of Snapshots :	1 * [Remaining : 10]
External Network :	<input checked="" type="checkbox"/> Enable
Number of External IPs :	1 [Remaining : 10]
Internal Network :	<input checked="" type="checkbox"/> Enable
Number of Internal IPs :	1 [Remaining : 10]

4 Specify required information.

5 Next >>

# Hosting Controller

Driving Towards New Horizons!



**Plan Information**

User Information	
Administrator Name :	<input type="text" value="vmwebadmin"/> *
Administrator Password :	<input type="password" value="....."/> *
Confirm Password :	<input type="password" value="....."/> *
First Name :	<input type="text" value="Test"/> *
Last Name :	<input type="text" value="Webadmin"/> *
Email Address :	<input type="text" value="testwebadmin@test"/> *
Description :	<input type="text" value="First VM webadmin"/>
Hosting Plan Information	
Sell This Plan :	<input type="text" value="VM Windows Basic"/>

6

Specify required information.

**Virtual Machine Summary**

General Information				
Virtual Machine Name :	winvm1			
Administrator Name :	Administrator			
Administrator Password :	admin			
OS Template Information				
OS Template :	Win-2003-Ent-x86			
Virtual Machine Settings				
CPU Cores :	1			
DVD Drive :	False			
Ram Size :	512 MB			
Virtual Hard Disk Size :	5 GB			
Number of Snapshots :	1			
Public IPs				
<b>IP Address</b>	<b>Subnet Mask</b>			
192.168.0.241	255.255.255.0			
<b>Gateway</b>	192.168.0.1			
Private IPs				
<b>IP Address</b>	<b>Subnet Mask</b>	<b>Gateway</b>	<b>Preferred DNS</b>	<b>Alternate DNS</b>
192.168.0.247	255.255.255.0	192.168.0.1	192.168.0.1	192.168.0.2

7



# HC Virtualization Module Configuration for Linux

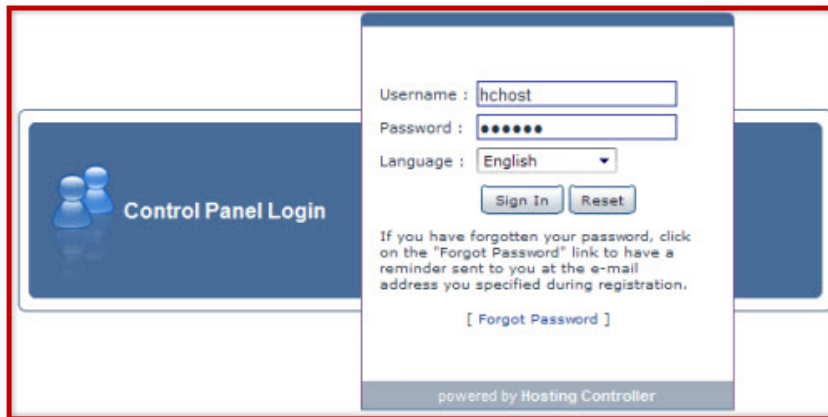
## Logging on to HC Panel

To log on to HC panel:

1. Type address `http://localhost:8787` in any web browser.
2. Type user credentials to log on to HC panel.



Type address in any browser to access HC panel.



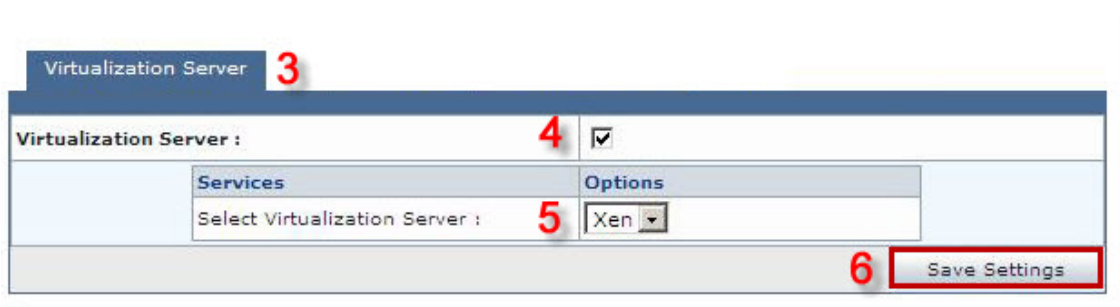
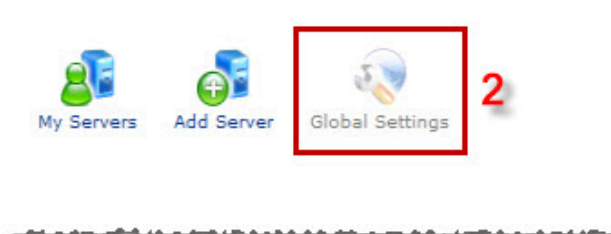
Type user credentials to log on to HC panel.

## Enabling Virtualization Server

To enable virtualization server:

1. Log on to **HC** panel.
2. From the left menu click **General**, and then **Server Manager**.  
Server Manager page is displayed.
3. Click **Global Settings**.  
The Global Settings page is displayed.
4. Click **Virtualization Server** tab under **Linux Family**.  
The Virtualization Server page is displayed.
5. Select the check box in the right column.  
Services and options of the virtualization server are displayed.
6. Select Xen from the drop-down list box.
7. Click **Save Settings**.  
The Virtualization Server is enabled.

### Enabling Virtualization Server



## Adding a Virtualization Server



Prior to add a Virtualization Server, go to **Global Settings** and enable the **Virtualization Server** role.

To add a virtualization server:

1. Log on to **HC** panel.
2. From the left menu click **General**, and then **Server Manager**.  
Server Manager page is displayed.
3. Click **Add Server**.  
The Add Server page is displayed.
4. Click the **Friendly Name** arrow and select the required server from the drop-down list box.



- The **Primary IP Address** shows the IP address of the server to be added.
- The **Operating System** shows the platform (Windows/Linux) of the server to be added.

5. Under **Server Role**, select the **Virtualization Server** check box.



Every server can have one or more role(s) in the cluster. These roles need to be set every time a new server is added to the cluster.

6. Under **Role Capacity**, type the number of **Virtual Machines** supported by the server.
7. Under **Purposing**, click the arrow and select the end user for the server from the drop-down list box.



The server role added in the cluster can be used either dedicatedly for a Reseller or for shared hosting. A role dedicated to a Reseller can not be used for any other user.



- In case of only one server in the cluster, choose **Everyone**.
- In case of more than one server, choose **ResellerOnly** to dedicate server to particular Reseller.

8. Click **Next**.  
The Virtualization Server configurations page is displayed.



To provide all the paths, click **Browse** and enter the required path.

9. Specify **General Information**:
  - **Server Name**: Type name of the server.
10. Specify the **Virtualization Server Information**:
  - **Xen VM Root Path**: Enter root path for the Xen virtual machine.
  - **Hypervisor Service File Path**: Enter path for the service file of hypervisor.
11. Specify the **Network Information**:

- **External Network:** Select external network from the drop-down list box.
- **Preferred DNS:** Type preferred DNS.
- **Alternate DNS:** Type alternate DNS.
- **Internal Network:** Select internal network from the drop-down list box.

12. Click **Add Server**.

A Virtualization Server is added.

**Adding a Virtualization Server**



**Add a Server**

Friendly Name : Tahir 3

Primary IP Address : 192.168.0.109

Operating System : Linux Family

What is the Role of this Server in the Cluster?

Server Role	Role Capacity	Purposing
<input type="checkbox"/> Web Server	700 Websites	Everyone(Reseller, End User)
<input checked="" type="checkbox"/> Virtualization Server	30 Virtual Machines	Everyone(Reseller, End User)

4

5 Next >>

**Virtualization Server**

**General Information**

Server Name : Tahir

**Virtualization Server Information**

Xen VM Root Path : /etc/xen Browse

Hypervisor Service File Path : /etc/rc.d/init.d/xend Browse

**Network Information**

External Network : xenbr0 [ Other than List ]

Preferred DNS : 192 . 168 . 0 . 1

Alternate DNS : 192 . 168 . 0 . 109

Internal Network : virbr0 [ Other than List ]

Specify required information.

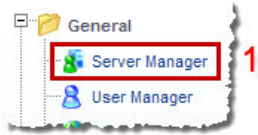
6 Add Server

## Editing a Virtualization Server

To edit a virtualization server:

1. Log on to **HC** panel.
2. From the left menu click **General**, and then **Server Manager**.  
Server Manager page is displayed.
3. Select the required server to modify its information
4. Click **Edit Server**.  
The Edit Server page is displayed.
5. Select **Virtualization Server** check box.
6. Click **Save & Edit Roles**.  
The Virtualization Server configurations page is displayed.
7. Modify the information as required.
8. Click **Update Virtualization Role**.  
The Virtualization Server is modified.

**Editing a Virtualization Server**



Manage Your Servers Total Servers : 1

Server Name	Primary IP Address	OS Family	Licensing Status	Build Number	Status
Tahir <b>2</b>	192.168.0.109	Linux	Licensed ( activated )	8.00.0009	Running

Page : 1 of 1  
Records Per Page : 10

**3**

**Edit Server**

Delete

**Edit Server**

Friendly Name : **Tahir**

Primary IP Address : **192.168.0.109**

Operating System : **Linux Family**

**What is the Role of this Server in the Cluster?**

Server Role	Role Capacity	Purposing
<input type="checkbox"/> Web Server	700 Websites	Everyone(Reseller, End User) ▼
<input type="checkbox"/> DNS Server	500 DNS Zones	Everyone(Reseller, End User) ▼
<input type="checkbox"/> Database Server	300 Databases	Everyone(Reseller, End User) ▼
<b>4</b> <input checked="" type="checkbox"/> <b>Virtualization Server</b>	30 Virtual Machines	Everyone(Reseller, End User) ▼ <b>5</b>

**Virtualization Server**

**General Information**

Server Name : Tahir

**Virtualization Server Information**

Xen VM Root Path : /etc/xen

Hypervisor Service File Path : /etc/rc.d/init.d/xend

**Network Information**

External Network : xenbr0 [ Other than List ]

Preferred DNS : 192 . 168 . 0 . 1

Alternate DNS : 192 . 168 . 0 . 109

Internal Network : virbr0 [ Other than List ]

**6**

Modify information as required.

**7**

## Adding an OS Template

To add an OS template:

1. Log on to **HC** panel.
2. From the left menu click **System**, and then **My Server**.  
My Server page is displayed.
3. Click **OS Templates** under **Virtualization Server Settings** menu.  
The OS Templates page is displayed.
4. Click **Add OS Template**.  
The Add OS page is displayed.
5. Specify the following information:
  - **Virtualization Server:** Select server for virtualization from the drop-down list box.
  - **Template Name:** Type name of the template for the OS.
  - **Base OS Type:** Select type of Base OS from the drop-down list box.



*It is the type of Operating System installed on the hard disk that is being selected as OS template.*

- **Boot Loader Type:** Click the required loader type for boot.
- **Kernel Path:** Enter path for Kernel.
- **Initrd Path:** Enter path for Initrd.
- **Virtual Hard Disk Path:** Enter path for the Virtual Hard Disk.



*This is the path for Host's Virtual Hard Disk, where templates are created.*

- **Root Device:** Type name of the root device.
  - **Swap Device:** Type name of the swap device.
6. Click **Add OS Template**.  
An OS Template is added.

### Adding an OS Template



#### Add OS Template

OS Template Information	
Virtualization Server :	Tahir (192.168.0.109) ▼
Template Name :	Fedora 8 *
Base OS Type :	Fedora ▼
Boot Loader Type :	<input checked="" type="radio"/> Direct Kernelboot <input type="radio"/> Host Bootloader
Kernel Path :	/root/Desktop/OS_template/vmlinuz-; Browse
Initrd Path :	/root/Desktop/OS_template/initrd-2.6; Browse
Virtual Hard Disk Path :	/root/Desktop/OS_template/fedora8.i; Browse
Root Device :	xvda1 *
Swap Device :	xvda2

Specify required information. 4

5 Add OS Template



## Assigning Public IP Address

To assign public IP addresses:

1. Log on to **HC** panel.
2. From the left menu click **System**, and then **My Server**.  
My Server page is displayed.
3. Click **Public IP Addresses** under **Virtualization Server Settings** menu.  
The Public IP Address Manager page is displayed.
4. Click **Add Public IPs**.
5. Specify the following information:
  - **IP Address Range:** Type starting and ending range of IP addresses.
  - **Subnet Mask:** Type Subnet Mask.
  - **Default Gateway:** Type IP address of the Default Gateway.
6. Click **Add Public IPs**.  
The specified IPs are added.

### Assigning Public IP Addresses



IP Manager (Public IPs)

Select Server :

IP Address	Subnet Mask	Gateway	Status	Action
192.168.0.2	255.255.255.255	192.168.0.1	Available	Delete
192.168.0.3	255.255.255.255	192.168.0.1	Available	Delete
192.168.0.4	255.255.255.255	192.168.0.1	Available	Delete
192.168.0.5	255.255.255.255	192.168.0.1	Available	Delete

3

IP Address Range :  .  .  .  To

Subnet Mask :  .  .  .

Default Gateway :  .  .  .

4 Specify required information.

5

## Assigning Private IP Address

To assign private IP address:

1. Log on to **HC** panel.
2. From the left menu click **System**, and then **My Server**.  
My Server page is displayed.
3. Click **Private IP Addresses** under **Virtualization Server Settings** menu.  
The Private IP Addresses page is displayed.
4. Click **Add Private IPs**.
5. Specify the following information:
  - **IP Address Range:** Type starting and ending range of IP addresses.
  - **Subnet Mask:** Type Subnet Mask.
  - **Default Gateway:** Type IP address of the Default Gateway.
  - **Preferred DNS:** Type the preferred DNS.
  - **Alternate DNS:** Type any alternate DNS.
6. Click **Add Private IPs**.  
The specified IPs are added.

**Assigning Private IP Address**



**IP Manager (Private IPs)**

Select Server : Tahir (192.168.0.109)

IP Address	Subnet Mask	Gateway	Preferred DNS	Alternate DNS	Status	Action
192.168.0.2	255.255.255.255	192.168.0.1	192.168.0.1	192.168.1.1	Available	Delete
192.168.0.3	255.255.255.255	192.168.0.1	192.168.0.1	192.168.1.1	Available	Delete
192.168.0.4	255.255.255.255	192.168.0.1	192.168.0.1	192.168.1.1	Available	Delete
192.168.0.5	255.255.255.255	192.168.0.1	192.168.0.1	192.168.1.1	Available	Delete
192.168.0.6	255.255.255.255	192.168.0.1	192.168.0.1	192.168.1.1	Available	Delete

**3** [ Add Private IPs ]

IP Address Range :  .  .  .  To

Subnet Mask :  .  .  .

Default Gateway :  .  .  .  **4** Specify required information.

Preferred DNS :  .  .  .

Alternate DNS :  .  .  .

**5** Add Private IPs

## Adding a Hosting Plan



HC enables resellers to set up and customize any number of hosting plans for their customers (webadmins). Resellers can set up the name, description, status, visibility and cancellation policy.

To add a hosting plan:

1. Log on to **HC** panel.
2. From the left menu click **Hosting Manager**, and then **Hosting Plans**.  
The My Plans page is displayed.
3. Click **Add Plan**.  
The Add Plan page is displayed.
4. Specify the **General Information**:
  - **Plan Name:** Type name of the plan.
  - **Plan Description:** Type brief description of the plan.
  - **Cancellation Policy:** Type cancellation policy for the plan.
  - **Plan Type:** Select type of the plan from the drop-down list box.
    - Available options for **Plan Type** are:
      - Windows
      - Linux
  - **Visible to All Resellers:** Select **Yes** check box to make this plan visible to all resellers.
  - **Visible to Selected List of Resellers:** Select required check boxes to make this plan visible to only selected resellers.
  - **Plan Status:** Select status of the plan from the drop-down list box.
    - Available options for **Plan Status** are:
      - Available
      - Unavailable
5. Click **Next**.  
The Plan Resources page is displayed.
6. Specify the **Plan Resources** information:
  - **Quantity:** Type the quantity of the resource.
  - **Unlimited:** Select this check box to allocate unlimited quota for any resource.
  - **Excluded:** Select this check box to exclude any resource from the plan.
7. Click **Add Plan**.  
A plan is added.

**Adding a Hosting Plan**



**General Information** ← 3

**Basic Information**

Plan Name : Plan1

Plan Description :  4 Specify required information.

Cancellation Policy :

Plan Type : Linux

Visible to all Resellers :  Yes

Visible to selected list of Resellers :  attiqueres  
 demoreseller  
 hcfreeres  
 HC-TECH

Plan Status : Available

5 Next >>

6 → **Plan Resources** Specify required information. 7

Plan Resources	Quantity	<input type="checkbox"/> Unlimited	<input type="checkbox"/> Excluded
User Accounts :	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="checkbox"/>
Domains :	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="checkbox"/>
DNS Zones :	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sub-Domains :	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="checkbox"/>
ODBC DSN :	<input type="text" value="5"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Disk Space &amp; Bandwidth</b>			
Disk Space (MB) :	<input type="text" value="250"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bandwidth (MB) :	<input type="text" value="500"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Virtualization</b>			
Virtual Machines :	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="checkbox"/>
RAM Size (MB) :	<input type="text" value="512"/>		
Hard Drive Size (GB) :	<input type="text" value="2"/>		
CPU Cores :	<input type="text" value="1"/>		
Number of Snapshots :	<input type="text" value="3"/>		
Number of External IP Addresses :	<input type="text" value="4"/>		
Number of Internal IP Addresses :	<input type="text" value="1"/>		

8 Add Plan

## Adding a Virtual Machine

To add a virtual machine:

1. Log on to **HC** panel as a Reseller.
2. From the left menu click **Tools**.  
The Tools options are displayed.
3. Click **Virtualization Manager** under **System Services**.  
The Virtualization Manager page is displayed.
4. Click **Add Virtual Machine**.  
The Add Virtual Machine page is displayed.
5. Specify the **General Information**:
  - **Virtual Machine Name**: Type name of the machine to be created.
  - **Description**: Type brief description of the machine.



*The **Administrator Name** shows name of the machine administrator.*

- **Administrator Password**: Type password for the machine administrator.
- **Confirm Password**: Re-type password for the machine.
- **Virtual Machine Owner**: Select owner of the machine from the drop-down list box.



*Select **Webadmin** as machine owner. You can create a new user if required. To create a new user as machine owner, select **Create New User** from the drop-down list box.*

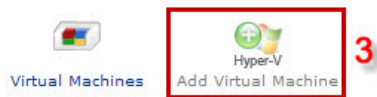
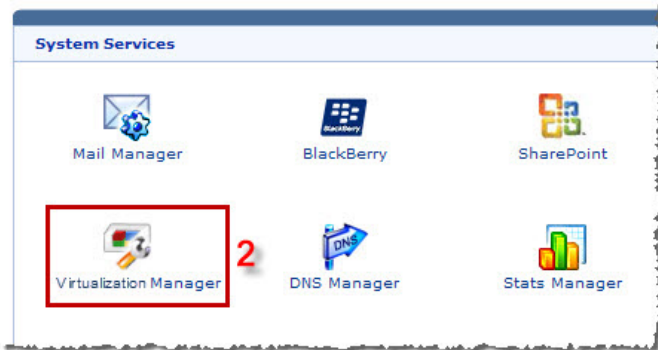
6. Specify the **OS Template Information**:
  - **OS Template**: Select an OS template for the machine from the drop-down list box.
7. Specify the **Virtual Machine Settings**:
  - **CPU Cores**: Select number of CPU cores to allocate to the machine from the drop-down list box.
  - **RAM Size**: Type the size of the RAM.
  - **Virtual Hard Disk Size**: Type the size of the Hard Disk.
  - **Number of Snapshots**: Type number of snapshots to be added for the machine.
  - **External Network**: Select to enable the external network.
  - **Number of External IPs**: Type number of external IPs to be added for the machine.
  - **Internal Network**: Select to enable the internal network.
  - **Number of Internal IPs**: Type number of internal IPs to be added for the machine.
8. Click **Next**.  
The Virtual Machine Summary page is displayed.



*The **Virtual Machine Summary** page shows detailed information of the machine being created.*

12. Click **Create Virtual Machine**.  
The Virtual Machine is added.

### Adding a Virtual Machine



Add Virtual Machine

General Information	
Virtual Machine Name :	linuxVM1 * [Remaining : 1]
Description :	First Linux Virtual Machine
Administrator Name :	root
Administrator Password :	**** *
Confirm Password :	**** *
Virtual Machine Owner :	linuxvadmin
OS Template Information	
OS Template :	Fedora 8
Virtual Machine Settings	
CPU Cores :	1 [Remaining : 1]
Ram Size (MB) :	512 * [Remaining : 512]
Virtual Hard Disk Size (GB) :	4 * [Remaining : 5]
Number of Snapshots :	1 * [Remaining : 2]
External Network :	<input checked="" type="checkbox"/> Enable
Number of External IPs :	1 [Remaining : 2]
Internal Network :	<input checked="" type="checkbox"/> Enable
Number of Internal IPs :	1 [Remaining : 2]

4

Specify required information.

5 Next >>

## Virtual Machine Summary

General Information				
Virtual Machine Name :	linuxVM1			
Administrator Name :	Administrator			
Administrator Password :	root			
OS Template Information				
OS Template :	Fedora 8			
Virtual Machine Settings				
CPU Cores :	1			
Ram Size :	512 MB			
Virtual Hard Disk Size :	4 GB			
Number of Snapshots :	1			
Public IPs				
IP Address	Subnet Mask	Gateway		
192.168.0.240	255.255.255.0	192.168.0.1		
Private IPs				
IP Address	Subnet Mask	Gateway	Preferred DNS	Alternate DNS
192.168.0.246	255.255.255.0	192.168.0.1	192.168.0.1	192.168.0.2
				<b>6</b> <input type="button" value="Create Virtual Machine"/>





## Contact Us

In case of any ambiguity/query regarding HC Virtualization Module configurations, please feel free to contact us at [support@hostingcontroller.com](mailto:support@hostingcontroller.com)