



# HC VMware Module

[WWW.HOSTINGCONTROLLER.COM](http://WWW.HOSTINGCONTROLLER.COM)

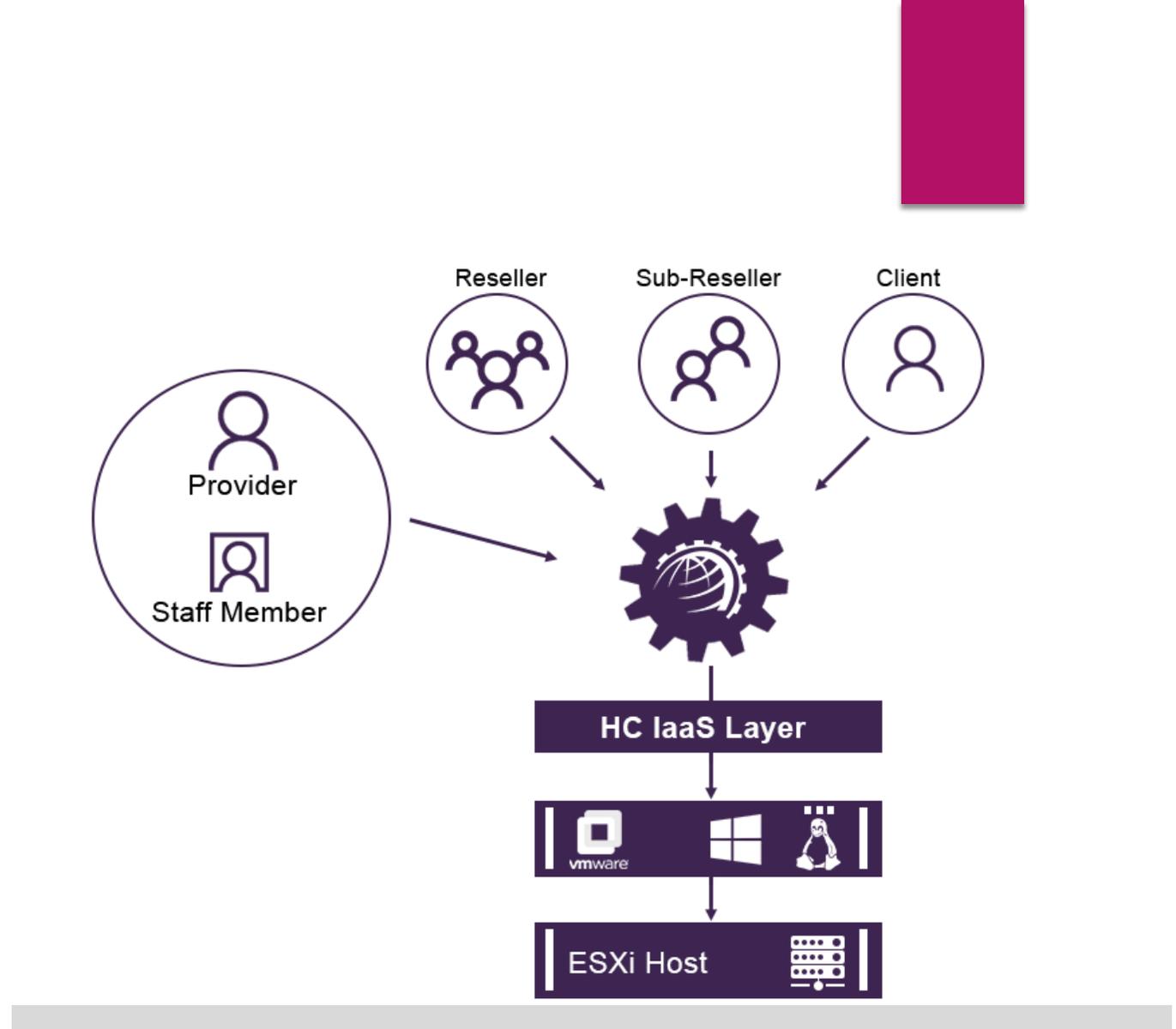


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# Introducing HC VMware Module

Hosting Controller VMware module simply extends a more powerful web interface to the provisioning of virtual machines in VMware ESXi. With the extra benefits of self-service, ESXi management, central repositories and pre-configured templates, all under one roof, it provides a much fuller services proposition to providers for partitioning their hardware.

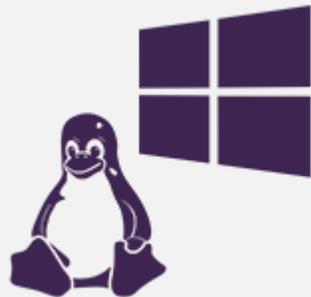


# Key Features

Self Service



Pre-configured OS  
Templates



Central Repository



Modern User  
Experience





# Service Provider Features

## VMware Servers

Add, Edit, Delete, Dedicate and Check Health of VMware servers.

## Base OS Management

Choose from a wide range of Windows/Linux base OS types. Edit, Disable, Make a copy of base OS types.

## Repository Management

Maintain virtual hard disks (.vmdk) files on a separate central location and fetch these files from the central repository.

## OS Templates

Add, Edit, Delete and Inspect Disks of VPS templates.

## Public IP Addresses

Add and Delete range of logical public IP addresses to and from the VMware server.

## Private IP Addresses

Add and Delete range of logical private IP addresses to and from the VMware server.

## Plan Management

Add, Sell, Edit and Delete service plans and composite resources with IaaS (virtualization) resources.



# Service Provider Features

## Network Information

Indicate settings for external and internal networks.

## Data Storage Folder

Specify the logical storage containers for virtual machine files.

## VM Import

Import existing virtual machines from the ESXi host.

## Summary Email Management

Send out summary emails for the creation, transfer and import of virtual machines.

## DVD Drive

Allow DVD drive in media on virtual machines.

## API Availability

Integrate with external applications and interfaces through a firm API.



# End User Features

VM Creation

Create a virtual machine.

VM Deletion

Delete a virtual machine.

VM Search

Search virtual machine by name.

VM Listing

View list of virtual machines.

VM Details

View virtual machine CPU/memory/storage size.

Change Details

Change virtual machine CPU/memory/storage size.



# End User Features

VM State

Start, Pause, Shut down and Reboot virtual machine.

Change Password

Change virtual machine administrator password.

Snapshots

Take virtual machine snapshot and view its date taken. Apply and remove snapshot.

Public IP Assignment

Assign and Delete public IP addresses to and from the virtual machine.

Private IP Assignment

Assign and Delete private IP addresses to and from the virtual machine.

# Virtual Machine Controls

## Virtual Machine Dashboard

Provisioning / Virtual Machines / **Dashboard**

**hctechvm444** Administrator [Change Password]

[Start](#) | [Pause](#) | [Shutdown](#) | [Reboot](#) | [Take Snapshot](#)

Status	Owner	CPU Cores	RAM Size	VHD Size	Public IP Address
<span>Running</span>	hcadmin	 2 Cores	 2048 MB	 50 GB	192.168.1.240 <a href="#">Click to Change</a>

## Virtual Machine Details

### General Properties

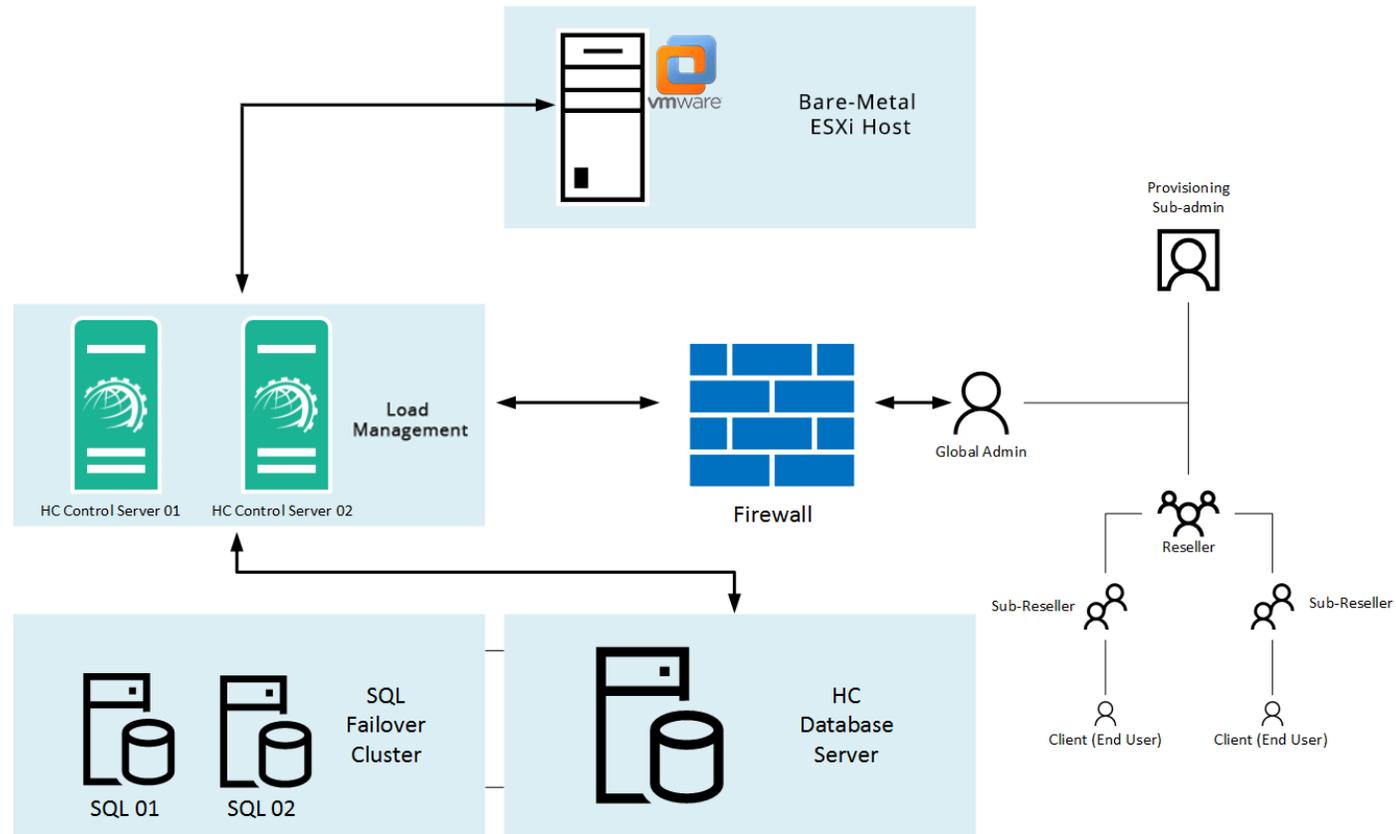
Snapshots

Public IP Addresses

OS Template	win2k12
Select Offering	I'll choose my own offering
CPU Cores	<input type="text" value="2"/>
RAM Size (MB)	<input type="text" value="2048"/>
VHD Size (GB)	<input type="text" value="50"/>

 Save

# The Environment



\* HC installation is not required on the ESXi host. It will communicate remotely with the bare-metal ESXi host.

# System Requirements

## Software

- Windows 2008/2012/2016 Server with HC10 (This is the control server where HC10 and [VMware-viclient](#) & [VMware-VIX API](#) will be installed).
- HC10 Windows License.
- HC Virtualization Module License.

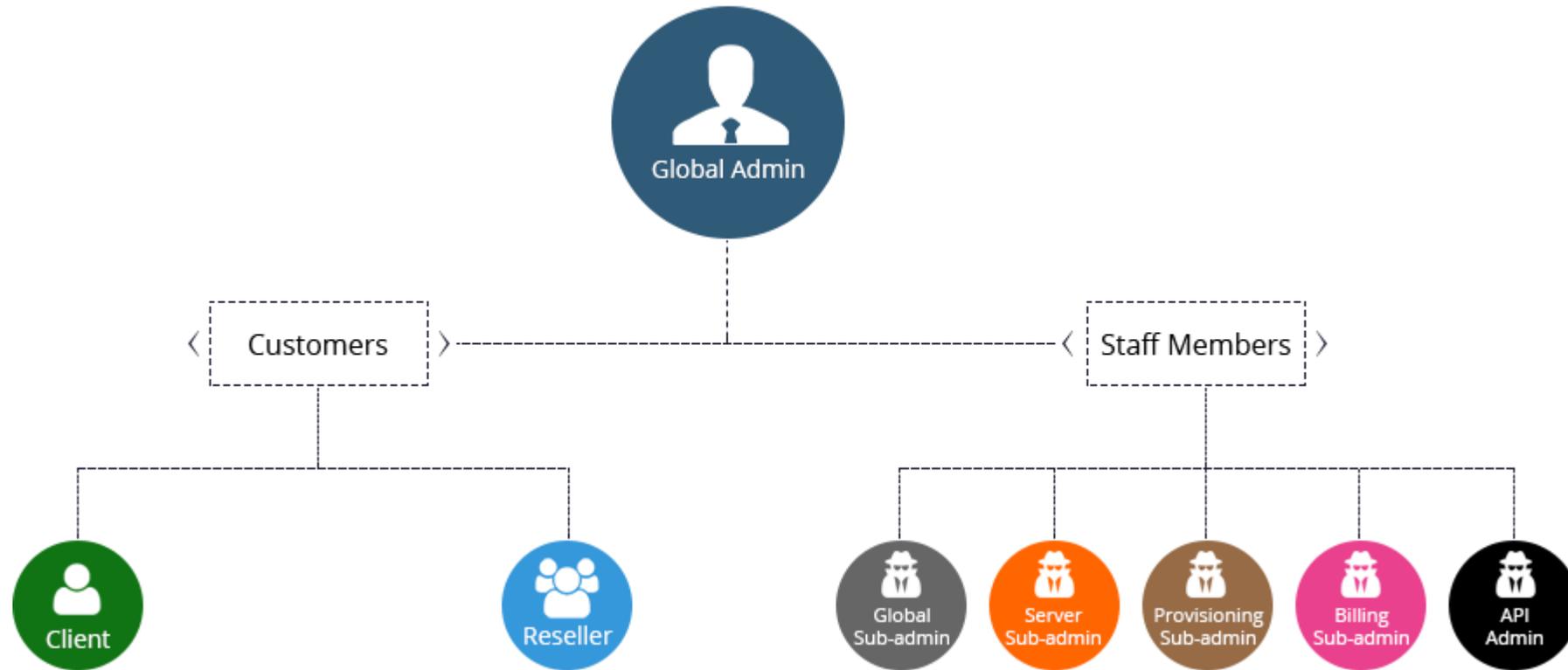
## Hardware

- VMware ESXi compatible server. This is the machine which will be used to provision VPS. However HC software itself will not be installed on this server. Intel Xeon 56xx Series or Intel Xeon 75xx Series. [Click here for Compatibility Details.](#)
- Windows 2008/2012/2016 Server with HC10 (This is the control server where HC10 and VMware-viclient & VMware-VIX API will be installed).

# Installing Hosting Controller

The installation of HC itself is fairly simple. Just download [HC Primary installer](#) and apply it on the Control Server. Follow a step by step wizard to complete the procedure. To view the installation procedure in detail, see [HC10 Installation Guide](#). HC installation is not required on the ESXi host. It will communicate remotely with the bare-metal ESXi host.

# HC User Structure



# Provisioning Virtual Machines

Login to Panel



Enable VMware Globally



Add a VMware Server



Add OS Template



Add Public IPs



Create Virtual Machine

# Logon to Control Panel



Hosting Controller

## Control Panel Login

example-username ←

..... ←

[Forgot your password?](#)

**➔ Sign in** →

Go to <http://YourIP:8797> to log on to HC10 control panel. Specify user credentials and click **Sign in** to proceed.

# Configure Cluster Settings

The screenshot shows the Hosting Controller dashboard. At the top, there is a header with the text "Hosting Controller" and a user profile icon. Below the header, there are several widgets: a "Welcome hcadmint" message, a "Server Status" widget showing "No configured server found.", and a grid of quick links for "Service Plans", "Sold Plans", "Panel Users", "Staff Members", "Client Tickets", and "Messages". To the right, there are system information widgets for "Version" (10.4.2.25353), "Theme" (Twilight (Default)), and "Language" (English). Below these is a "Consumption Stats" section with a line graph. At the bottom, there is a "Configurations" sidebar with a gear icon and a list of menu items: "Server Manager" (containing "Servers", "Cluster Settings", "Activate License", and "Control Servers") and "System" (containing "System Services", "Audit Logs", and "Exceptions"). The "Cluster Settings" item is highlighted with a red box, and a red arrow points from it to the right.

Go to **Configurations** screen and then proceed to **Cluster Settings**.

# Enable VMware

## Manage Cluster Settings

On-premises Cloud Services

Microsoft Exchange

Microsoft SharePoint

Skype for Business

Active Directory

IaaS Computing

Status  Enabled

Select Provider(s)  Microsoft Hyper-V  
 VMware

Allow DVD Drive  Enable

Internal Network  Enable

### Templates Repository

Centralized Repository  Enable

Save

Under On-premises tab enable IaaS Computing and define VMware globally.

# Add VMware Server

Add Server (On-premises) ×

## General Information

Server's Friendly Name

VMware

## Server Role(s) in Cluster

Select Server Role

IaaS Computing

Add Server & Configure >

Cancel

Go to **Manage Servers >> Add Server** page to add VMware server. Specify a **Friendly Name** for it and select **Server Role(s) in Cluster**. Click **Add Server & Configure** to proceed.

# Provide root User to the ESXi Host

Add Server (On-premises) ×

IaaS Computing

## General Settings

Select Provider

VMware

## Server Credentials

Server API URL

https://192.168.0.68/sdk

(e.g. https://VMware-Instance-IP/sdk)

Server Fingerprint

(required only for centralized templates repository)

Admin User

root

Password

.....

 Check Connectivity

Provide the SDK URL, the root user to the ESXi host and its password. Then check for connectivity.

# Provide Server Details

Password: [masked] [lock icon]

[Check Connectivity](#)

**Data Storage Folder**

Virtual Machines Root: [datastore2]

**Network Information**

External Network: VM Network

Preferred DNS: 192.168.0.1

Alternate DNS: [empty]

**Max. Available Limits**

CPU Cores: 999999

RAM Size (GB): 999999

VHD Size (GB): 999999

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

On successful connection provide rest of the details such as **Data Storage**, **Network Information**, **CPU**, **RAM** and **VHD Size**. Click **Save** to add VMware server.

# VMware Server Added

## Manage Servers

Server Manager / Servers

Search Server by Friendly Name



+ Add Server

Showing 1 to 1 of 1

Show 20 Records

Friendly Name	Providers	SSUP Date	Build No.	Status	License Status	Actions
VMware			10.7.2.26056	Running	DEMO (30 days to expire)	Edit Activate License

VMware Server added successfully.

# Add OS Template

## Add OS Template

×

Template Name	<input type="text" value="CentOS7"/>
Select Templates Repository	<input type="text" value="VMware"/>
Base OS Type	<input type="text" value="Cent OS (64-bit)"/>
Default Admin Account	<input type="text" value="root"/>
Default Admin Password	<input type="password" value="*****"/> 
Confirm Password	<input type="password" value="*****"/> 
Public Network Name	<input type="text" value="eth0"/>
Private Network Name	<input type="text" value="eth1"/>
VHD Location	<input type="text" value="[datastore2]\CentoS7.3-1.21\CentoS7.3-1.21.v"/> <input type="button" value="Browse"/>

Go to **Virtual Module Conf. >> OS Templates** page to add an OS template. Click **Add OS Template** and fill out all the details. Click **Save** to add a template

# OS Template Added

## Add OS Template

Success: OS template added successfully.

## OS Templates

Virt. Module Conf. / OS Templates

Search OS Template by Name



+ Add OS Template

Showing 1 to 1 of 1

Show 20 Records

Template Name	Base OS Type	Template Repository	Usage Count	Actions
CentOS7	Cent OS (64-bit)	VMware (N/A)	0	Edit   Inspect Disk

OS Template added successfully.

# Add IP Addresses

## Add Public IP Address



Select Server	VMware		
IP Address Range	192.168.1.22	To	24
Subnet Mask	255.255.255.0		
Default Gateway	192.168.0.1		
<input type="button" value="Save"/> <input type="button" value="Cancel"/>			

Go to Virtual Module Conf. >> Public IP Addresses page to specify a range of public IPs. Click Add Public IP Address and specify the IP Address Range, Subnet Mask and Default Gateway. Click Save to add the IPs.

# IP Addresses Added

## Add Public IP Address

Success: IP address added successfully.

## IP Manager (Public IP Address)

Virt. Module Conf. / Public IP Addresses

Search IP Addresses

+ Add Public IP Address

Showing 1 to 3 of 3 Show 20 Records

IP Address	Subnet Mask	Gateway	Server	Status	Actions
192.168.1.22	255.255.255.0	192.168.0.1	VMware	Free	Delete
192.168.1.23	255.255.255.0	192.168.0.1	VMware	Free	Delete
192.168.1.24	255.255.255.0	192.168.0.1	VMware	Free	Delete

IP Addresses added successfully.

# Create Virtual Machine

Create Virtual Machine ×

**Virtual Machine Configurations**

Owner  Create Virtual Machine for myself

Base OS Type

Select Provider

Select Virtualization Server

Select Offering

CPU Cores

RAM Size (MB)

VHD Size (GB)

Assign Public IP Address  Yes

**Virtual Machine Details**

Virtual Machine Name

Description

Admin Account Administrator name will be shown on details page

Password

Confirm Password

Go to Provisioning >> Virtual Machines page to create a virtual machine. Click **Create Virtual Machine** and specify various configurations such as **Base OS Type**, **CPU**, **RAM**, **VHD** etc. Click **Create Virtual Machine**.

# Virtual Machine Created

## Virtual Machine Summary ×

Success: Virtual machine creation process started successfully with the following details. ×

## Manage Virtual Machines

Provisioning / Virtual Machines

Search Virtual Machine by Name



+ Create Virtual Machine

Showing 1 to 1 of 1

Show

20

Records



Machine Name	Owner	Provider	Size	Last Known State	Server Name	Actions
CentosVM	hcadmin		Cores:1, RAM:1024MB, VHD:10GB	Running	VMware	<a href="#">Dashboard</a> <a href="#">Delete</a>

Virtual machine created successfully.

# Contact Hosting Controller



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