HC VMware Module

In This Deck

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.
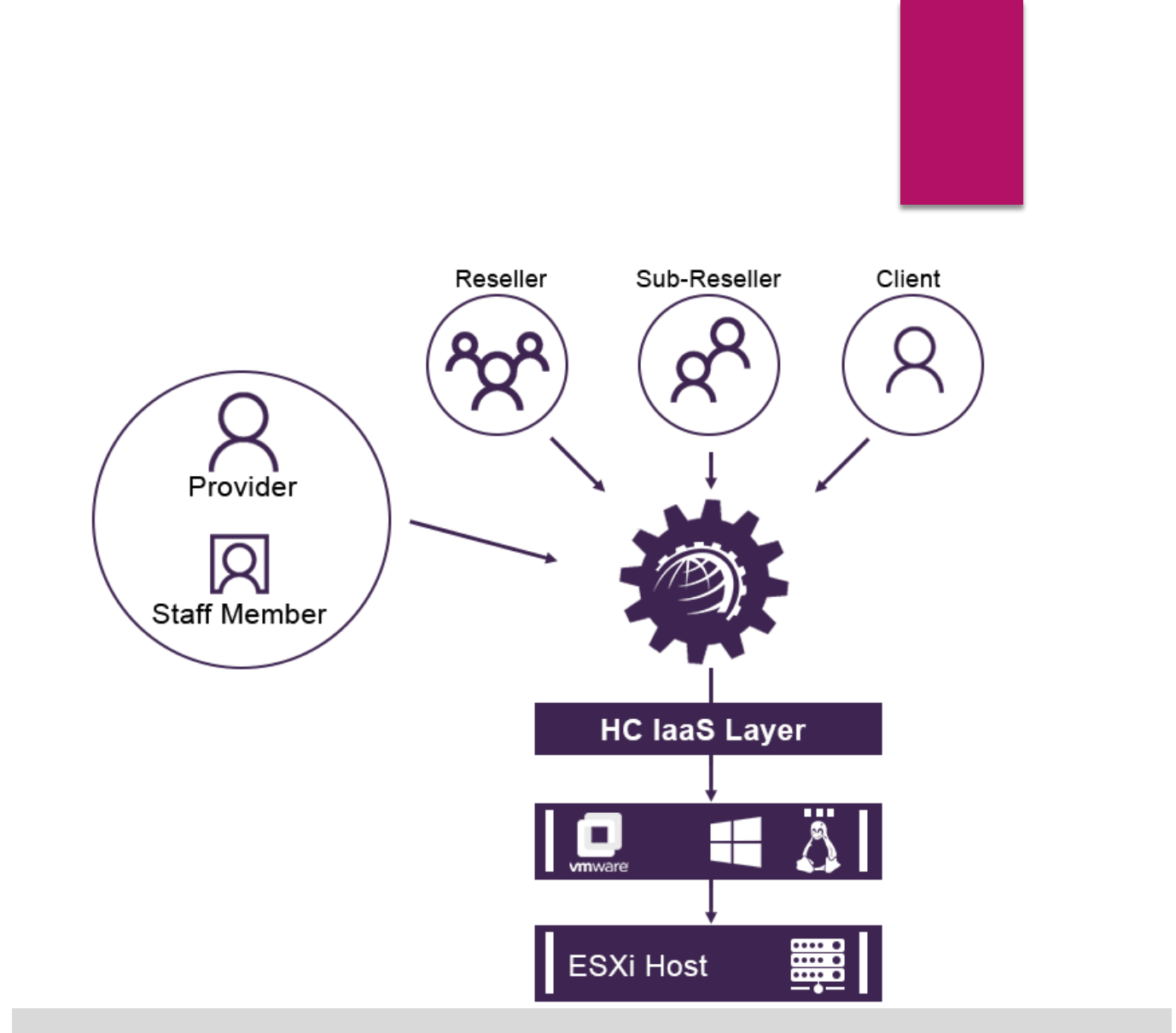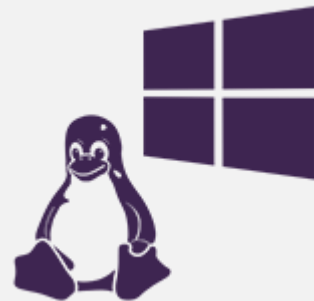
Key Features

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
Running	hcadmin	2 Cores	2048 MB	50 GB	192.168.1.240 Click to Change

Virtual Machine Details

General Properties

Snapshots

Public IP Addresses

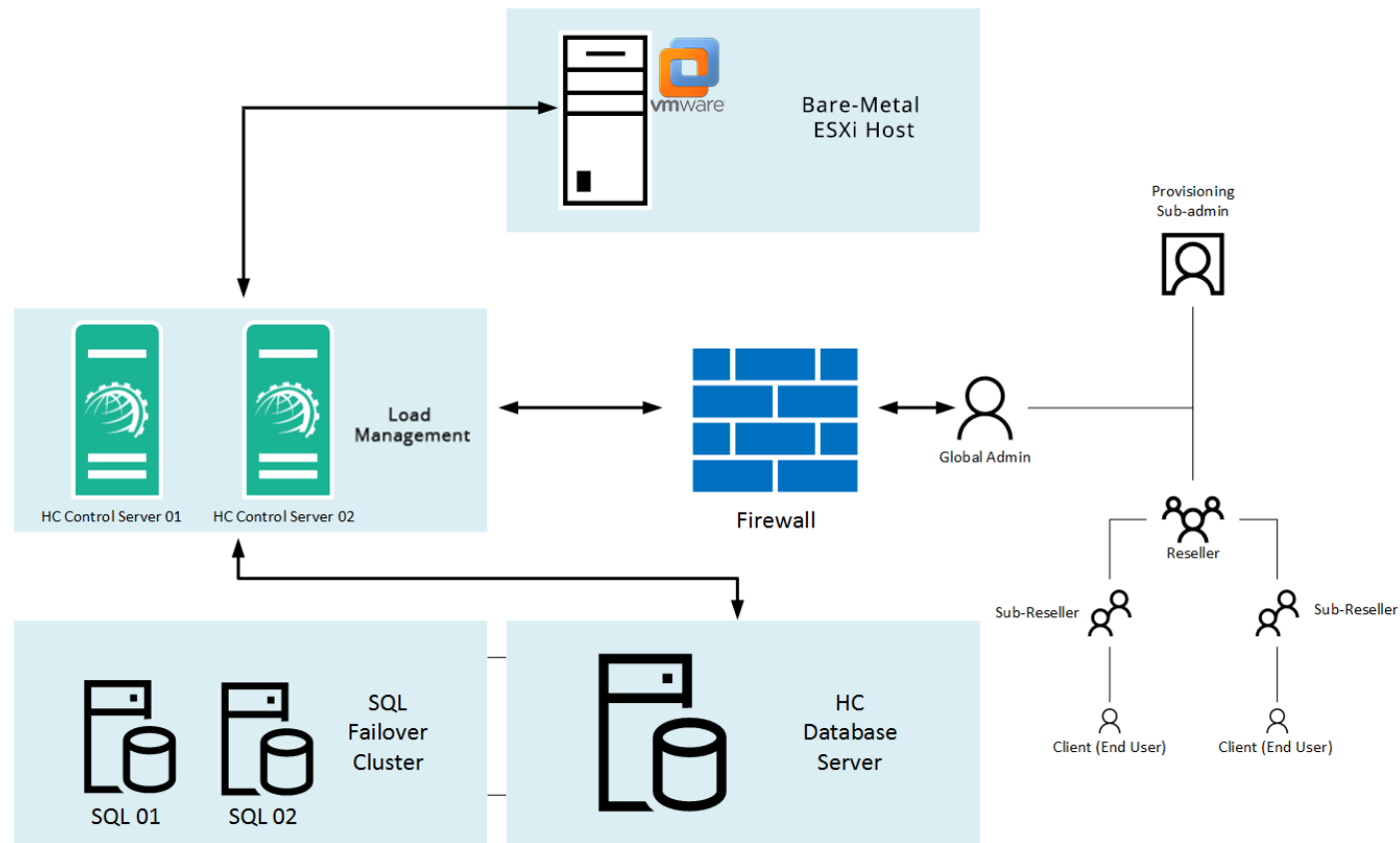|	
OS Template	win2k12 ▾
Select Offering	I'll choose my own offering ▾
CPU Cores	2
RAM Size (MB)	2048
VHD Size (GB)	50

💾 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 2019/2016/2012/2008 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
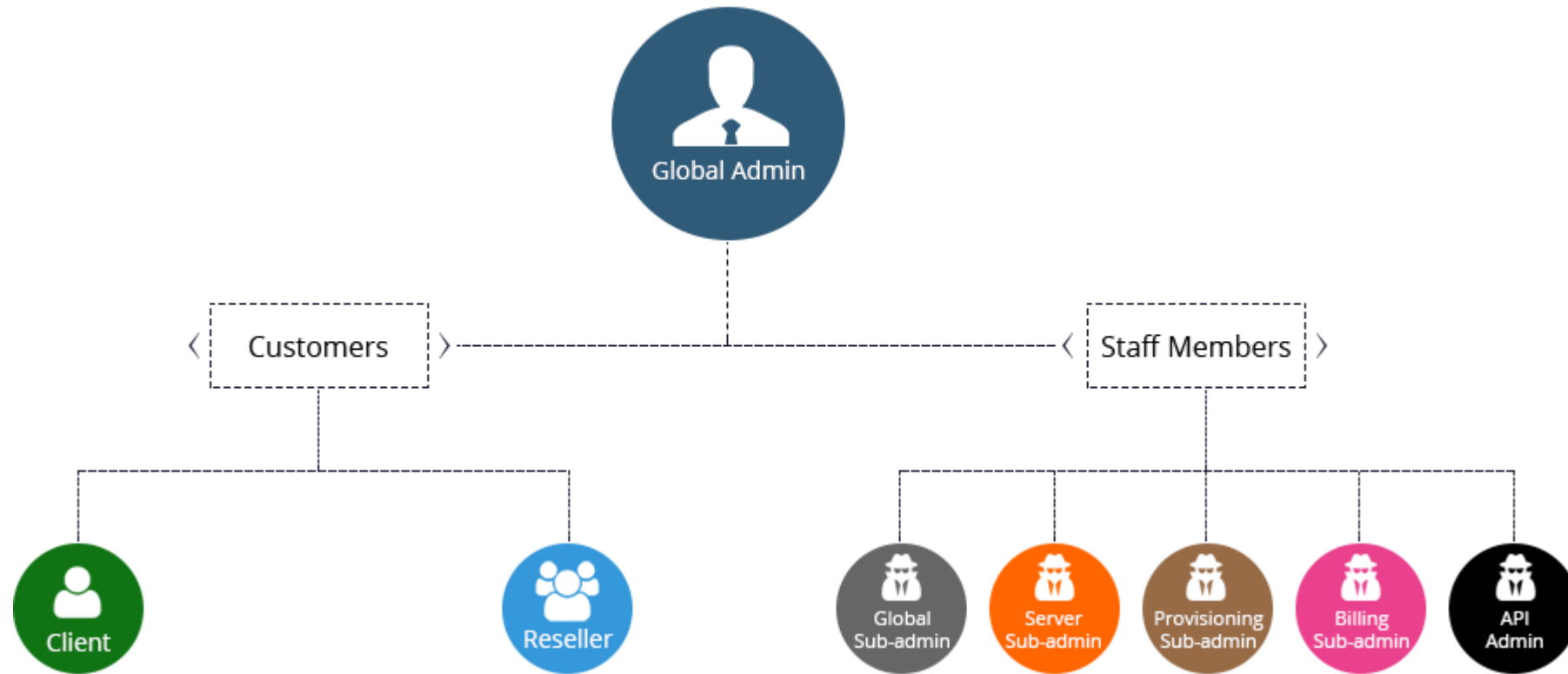
Provisioning Virtual Machines

Login to Panel

Enable VMware Globally

Add a VMware Server

Add OS Template

Add Public IPs

Create Virtual Machine

Logon to Control Panel

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

Configure Cluster Settings

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)
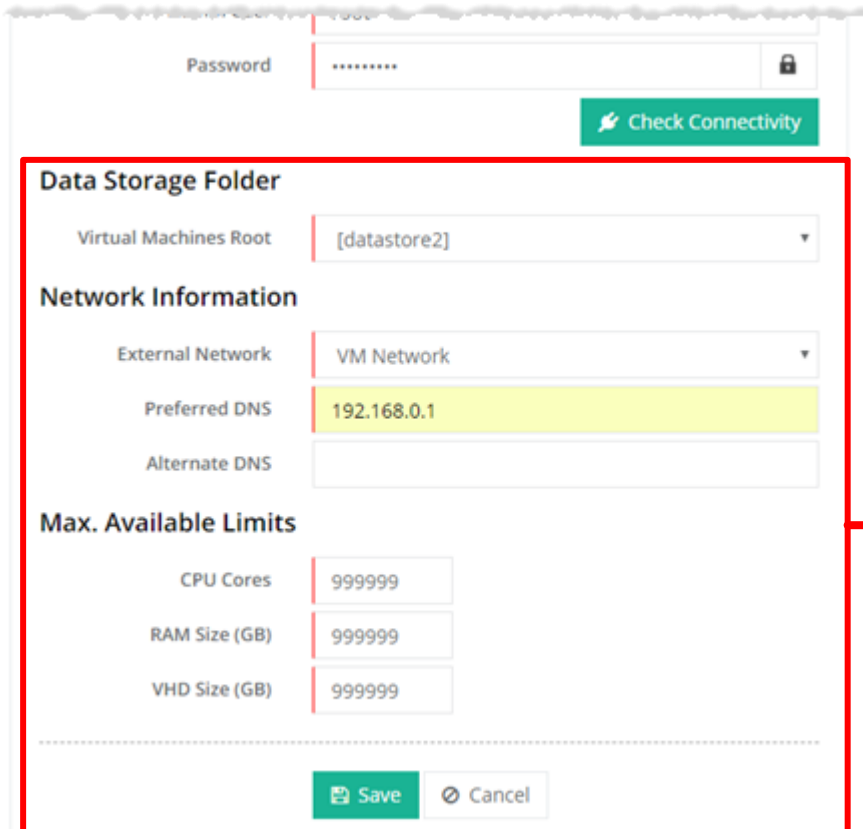
Admin User root

Password ••••••••• 🔒

⚡ Check Connectivity

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

Provide Server Details

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

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	

💾 Save   ⊘ 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

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	Dashboard | Delete

Virtual machine created successfully.

Contact Hosting Controller

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