



VIRTUAL DATA CENTRE (VDC) USER GUIDE

CONGRATULATIONS ON YOUR NEW VIRTUAL DATA CENTRE (VDC)

Congratulations for selecting the Virtual Data Centre by Intrahost. Never before, has the web hosting customer had so much opportunity to maximise the potential of their online presence, whilst reducing overheads.

Throughout this guide, you will be learn how to: acquire additional resources, develop a high availability platform, improve the end users experience, have full control of your hosting solution and more importantly save money on your hosting fees.

With our resourceful control panel you can modify settings on your VDC. Above all else our VDC control panel is Hassle free! That's not all – if you're on move you can modify your Virtual Data Centre by using the OnAPP iPhone App that is available from the Apple iTunes Store.

INTRAHOST VIRTUAL DATA CENTRE INTERFACE

Dashboard Overview

The main overview of the Intrahost VDC Control Panel, the dashboard gives a brief insight of your VDC. Where you can see in real-time any changes including: the disk space used, memory available and any changes to the server.

The navigation on the left hand side allows you to implement additional resources quickly and efficiently. Within seconds, you can create a Virtual Machine from the dashboard, just by clicking on 'Create New Virtual Machine'.

Dashboard

Powered by **OnApp**

Hello there, James King + Create New Virtual Machine

Logged in successfully

Disk Space Used **39 GB / 498 GB** (459 GB free)

Free RAM **13.7 GB / 66.8 GB** (53.1 GB free)

Statistics

Menu

Ref	Date	Action	Status	Target	Dependent
1563	07 Jun 10:26	StartupVirtualMachine	Complete ✓	VirtualMachine#b24dj7p7xu2tyd	1562
1562	07 Jun 10:26	ConfigureOperatingSystem	Complete ✓	VirtualMachine#b24dj7p7xu2tyd	1561
1561	07 Jun 10:26	ProvisionVirtualMachine	Complete ✓	VirtualMachine#b24dj7p7xu2tyd	1560
1560	07 Jun 10:26	FormatDisk	Complete ✓	Disk#83	1559
1559	07 Jun 10:26	BuildDisk	Complete ✓	Disk#83	1558
1558	07 Jun 10:26	FormatDisk	Complete ✓	Disk#82	1557

Current Server Changes

Fig 1 – Overview of the Control Panel Dashboard

DASHBOARD OVERVIEW

The dashboard gives you an instant overview of 'Disk Space Used' and 'Free RAM' this is especially useful, if you're looking to upgrade as you can see what's available in the resources pool.

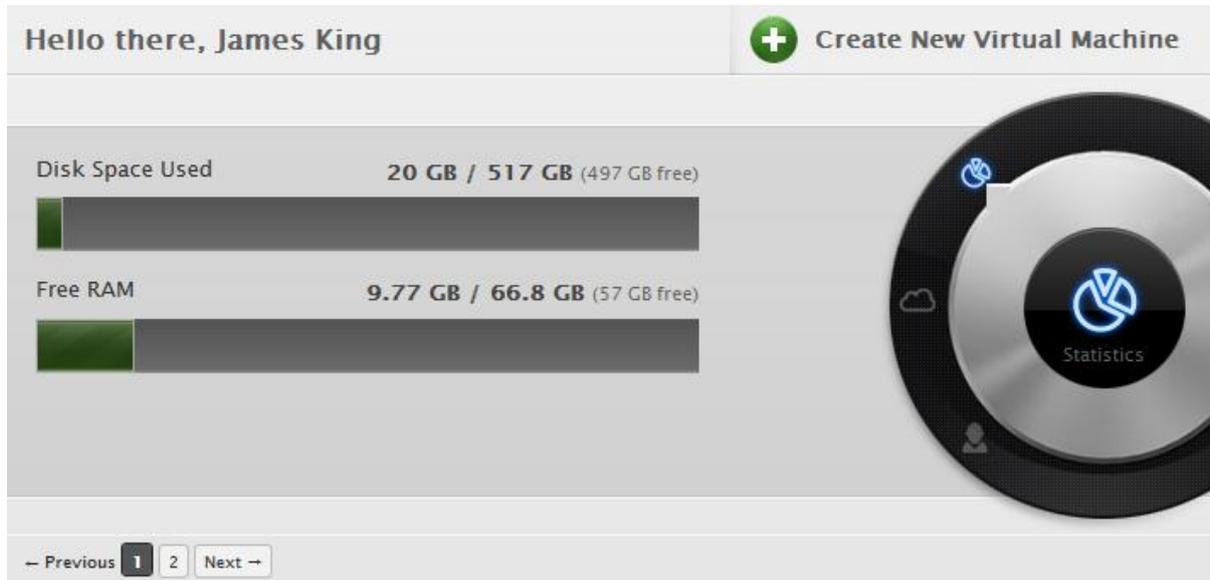


Fig 2 - Statistics tab on the Intrahost Dashboard VDC Control Panel

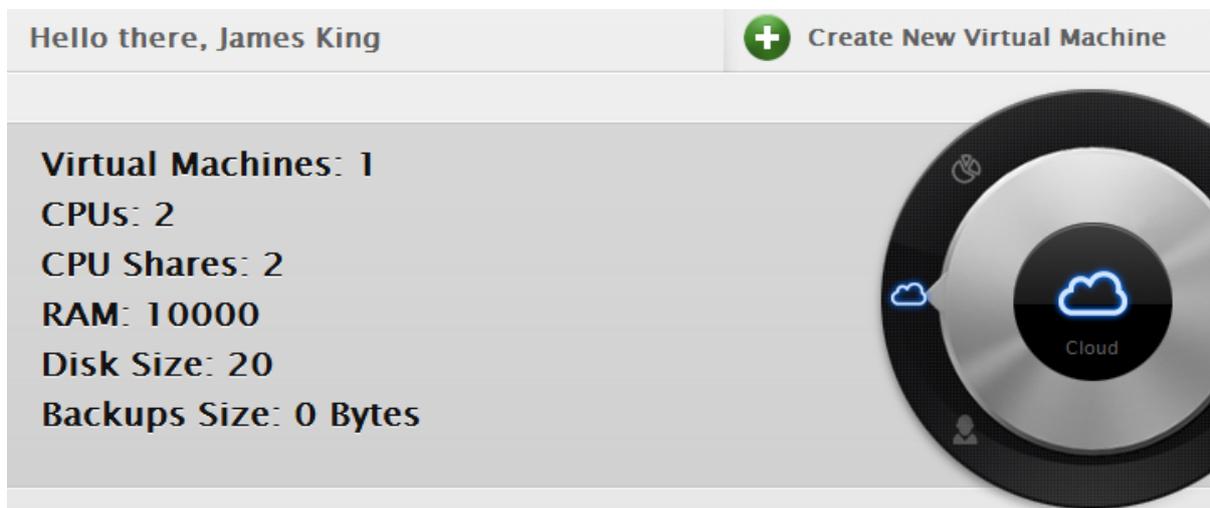


Fig 3 - Cloud tab on the Intrahost Dashboard VDC Control Panel

The Cloud Tab displays the number of Virtual Machines, CPUs, CPU Shares, RAM in (MB), Disk Size in (GB) and Backups Size.

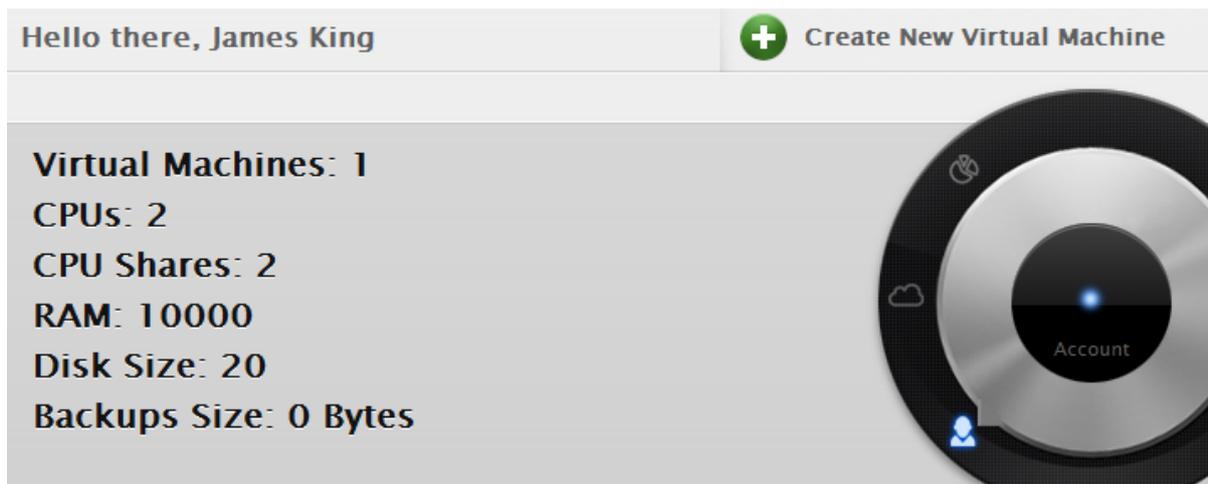


Fig 4 - Account tab on the Intrahost Dashboard VDC Control Panel

The Account Tab displays the all the resources being used in your VDC.

VIRTUAL MACHINES

How to create your own Virtual Machine

The Virtual Machines tab allows you to create a Virtual Machine effortlessly. In order to create your own VM – click on 'Virtual Machines' and 'Add New Virtual Machine'.

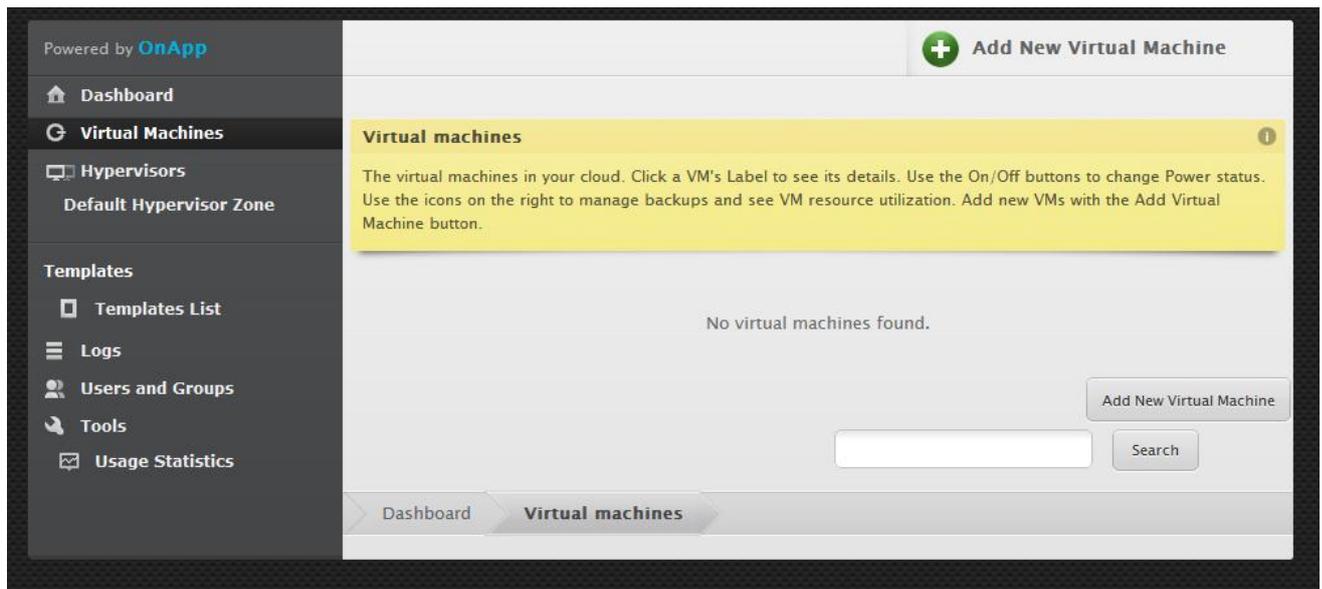


Fig 5 - Virtual Machine Menu

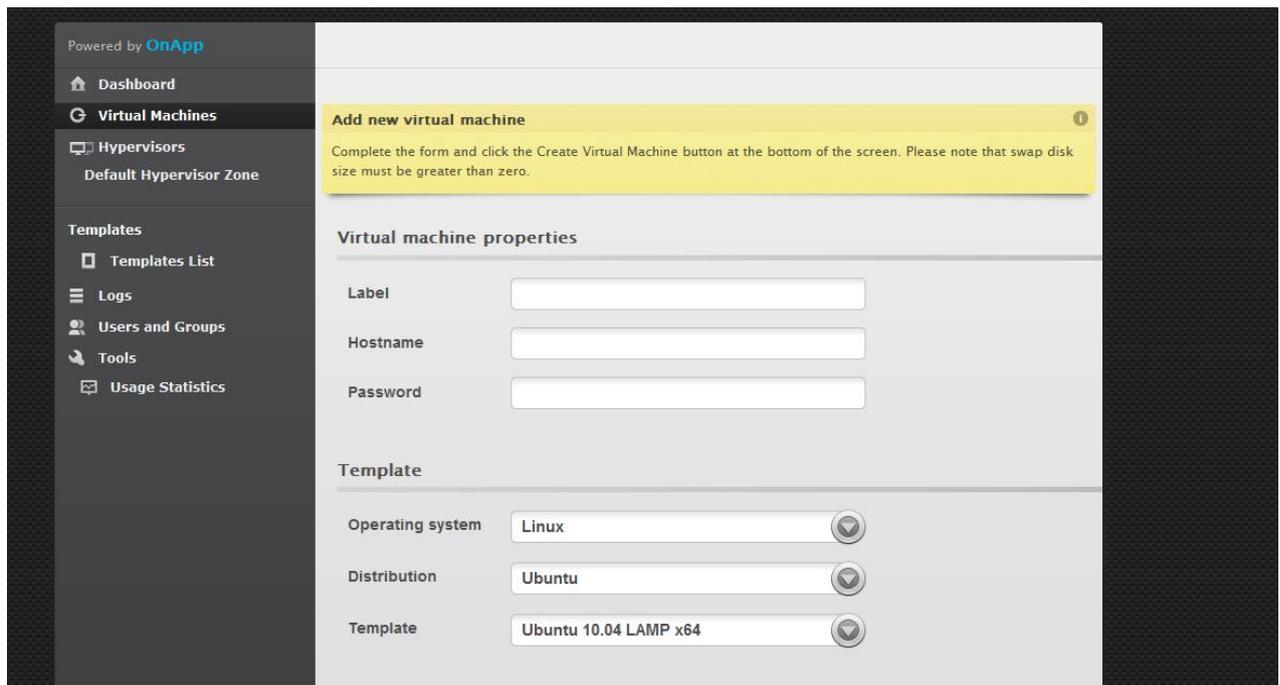


Fig 6 - Creating your own VDC step 1

For the Virtual Machine Properties type in the following:

Label Name is for your own purposes

Hostname is the name of the server

Password the password to login into your server

A template allows you to choose an Operating System

The IntraHost VDC Control Panel allows you to select which Operating System you'd like to use. For instances, you can set up a VM to run Ubuntu on a Linux server or even Windows 2008 on a Microsoft Windows Server.

Select Your Resources

The screenshot shows a configuration panel titled "Resources". It contains three rows of settings:

- RAM:** A text input field containing "128" followed by "MB". Below it is a slider.
- CPU Cores:** A text input field containing "1". Below it is a slider.
- CPU Priority:** A text input field containing "1" followed by "%". Below it is a slider.

Fig 7 – Select your resources – Create your own VDC part 2

Next select the resources you'd like in your VDC, just use the slider to select the level of resources you require.

The image shows a configuration interface for a VDC with four sections: Primary Disk, Swap Disk, Network Configuration, and Automation Settings. Each section has a callout box explaining its function.

- Primary Disk:** Data Store Zone is set to 'Default DataStore Zone'. Primary disk size is set to 5 GB. Callout: "Primary Disk is the Primary Disk Location."
- Swap Disk:** Data Store Zone is set to 'Default DataStore Zone'. Swap disk size is set to 0 GB. Callout: "Swap Disk is the Primary Disk Location."
- Network Configuration:** Network Zone is set to 'per Mbps'. Port Speed is set to 1 Mbps. Callout: "Network Configuration allows you to increase the network speed of VDC."
- Automation Settings:** 'Required automatic backup' is unchecked, and 'Build virtual machine automatically' is checked. Callout: "Automation Settings saves you time."

Fig 8 – Select your resources - Create your own VDC part 3

Once all these items have been completed your VM when be created within a few moments. Please note the more resources that you acquire, the more expensive your VM will cost to operate. Therefore, it is a wise decision to order only what you will need.

Modify your VM (Virtual Machine)

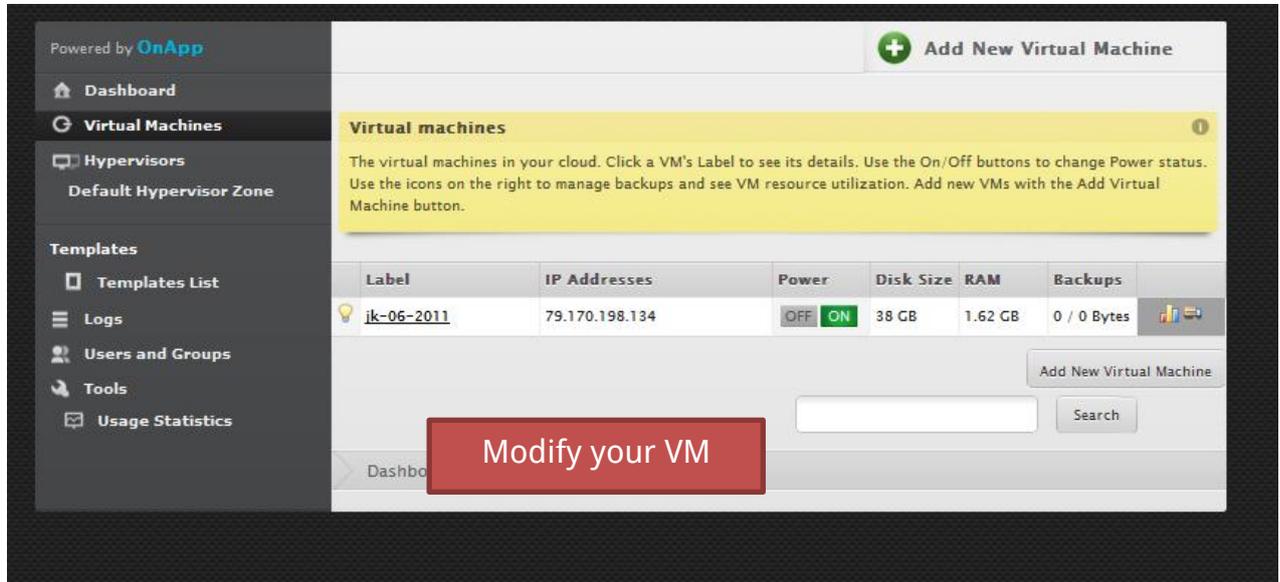


Fig 9 – Modify your Virtual Machine

On The Virtual Machines menu, you'll be introduced to the VMs that have been created. To modify your VM click on the label name of your Virtual Machine.

Modify your Virtual Machine

Once you've clicked on your server label, you can modify any Virtual Machine details and take actions. On the Virtual Machines – Overview page you can operate a variety of actions for instances: reboot or shut down your Virtual Machines, edit Firewall rules, reset root password, adjust resource allocation, rebuild your VM and rebuild network. Your VDC is fully customisable and available.

The screenshot shows the 'Virtual Machine Overview' page for a VM named 'jking'. The page is divided into several sections:

- Navigation:** A sidebar on the left contains 'Dashboard', 'Virtual Machines', 'Hypervisors', 'Templates', 'Logs', 'Users and Groups', 'Tools', and 'Usage Statistics'.
- Overview Tabs:** 'Overview' (selected), 'Networking', 'Storage', 'Properties', 'CPU Usage', and 'Console'.
- Virtual machine details:** A yellow banner explains the On/Off buttons and Actions tools. Below it, key details are listed:
 - Hostname: jking
 - Status: ON
 - Template: Ubuntu 10.04 LAMP x64
 - Memory: 1.62 GB
 - CPU(s): 4 CPU(s)
 - CPU Priority: 13%
 - IP Addresses: 79.170.198.134
 - Network Speed: 51Mbps
 - Disk Size: 38 GB
 - Hypervisor: Cloud02
 - Owner: James King
 - Disk backups: 0 / 0 Bytes
 - Price per hour powered ON/OFF: £0.00000 / £0.00000
- Actions:** A grid of buttons for various operations: Reboot Virtual Machine, Reboot in Recovery, Shut down Virtual Machine, Migrate Virtual Machine, Reset Root Password, Rebuild Virtual Machine, Edit Firewall Rules, Adjust Resource Allocation, Rebuild Network, Segregate Virtual Machine, and Edit Note.
- Virtual Machine Activity Log:** A table showing recent actions:

Ref	Date	Action	Status	Target	Dependent
1575	07 Jun 14:03	StartupVirtualMachine	Complete ✓	VirtualMachine#u71718e3k51lo3	1574
1574	07 Jun 14:03	ConfigureOperatingSystem	Complete ✓	VirtualMachine#u71718e3k51lo3	1573
1573	07 Jun 14:03	ProvisionVirtualMachine	Complete ✓	VirtualMachine#u71718e3k51lo3	1572

Fig 10 – Virtual Machine Overview

The CPU Usage button displays the usage of your CPU in a bar chart, this graph will help you to determine whether you require additional, resources for your VM.

Note: On Linux VMs your capable of accessing the Console, this is a KVM (Keyboard Video Mouse) alternative for accessing your server.

Networking Options

Port speed is the speed of the connection - this can be changed.

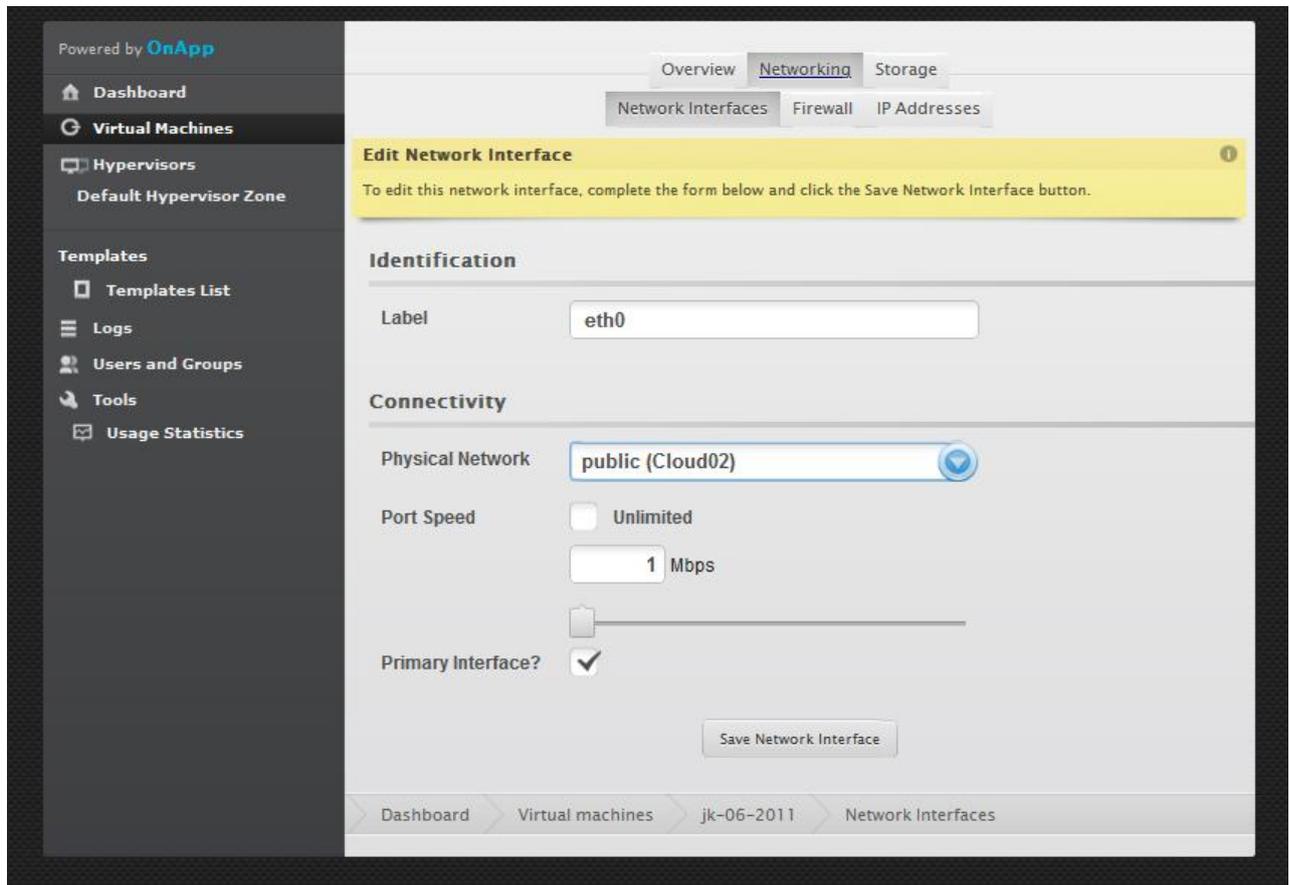


Fig 11 – Networking interface

Modify Firewall

You can modify your Firewall needs throughout your VDC. The Firewall settings allow you to keep your servers safe and secure.

The screenshot shows the OnApp interface for configuring Firewall Rules. The left sidebar contains navigation options: Dashboard, Virtual Machines, Hypervisors, Templates, Logs, Settings, Users and Groups, Tools, Alerts, Usage Statistics, Sysadmin Tools, and Help. The main content area has tabs for Overview, Networking, and Storage, with sub-tabs for Network Interfaces, Firewall, and IP Addresses. The Firewall Rules section includes a yellow informational box and a form to create a rule. The form fields are: Interface (eth0), Command (ACCEPT), Source Address (empty), Destination Port (empty), and Protocol (TCP). A Save button is present. Below the form is a table for Default Firewall Rules with columns: Rule #, Source Address, Destination Port, Protocol, and Command. The table currently shows one rule for interface eth0 with command ACCEPT. An Apply Firewall Rules button is at the bottom right. The breadcrumb trail at the bottom reads: Dashboard > Virtual machines > jk-2010 > Firewall Rules.

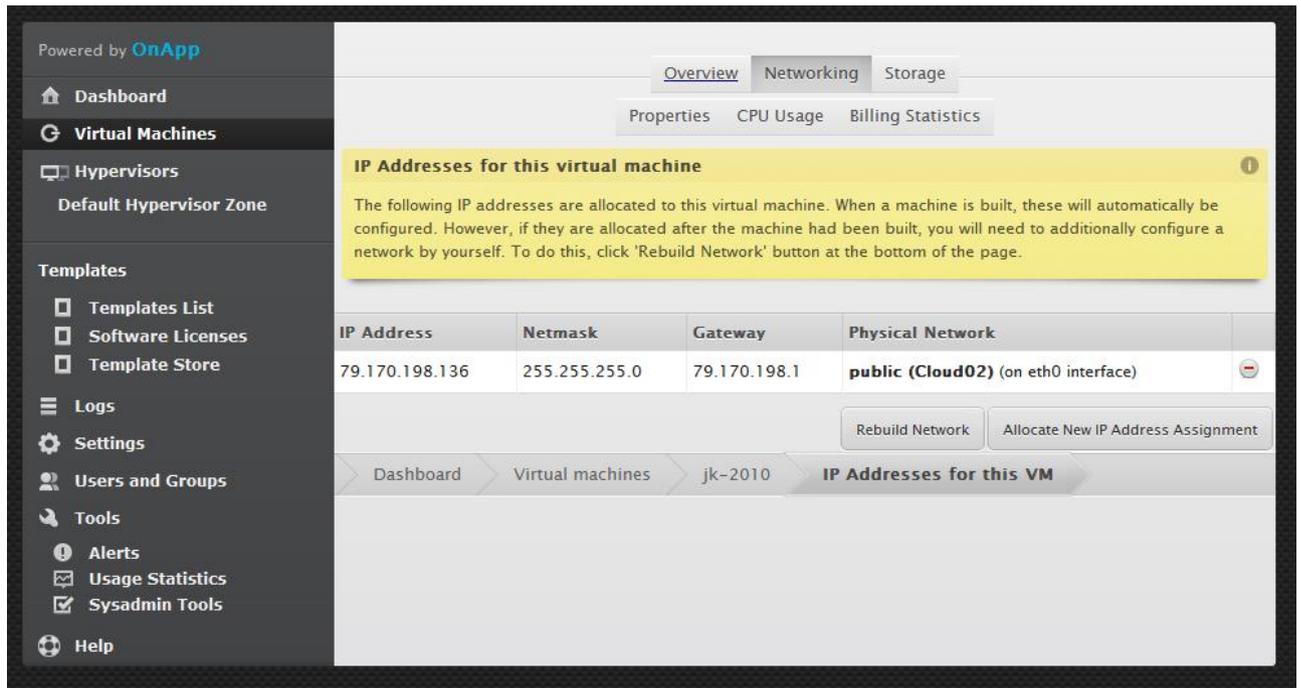
Fig 12 – Modify Firewall

IP Addresses

For VDC users that wish to create multiple private cloud servers, allocating and assigning new IP addresses are beneficial.

How to add additional IP Addresses?

Click on the '*Allocate New IP Address Assignment*' button.



The screenshot shows the OnApp interface for managing a virtual machine. The left sidebar contains navigation options: Dashboard, Virtual Machines, Hypervisors, Templates, Logs, Settings, Users and Groups, Tools, Alerts, Usage Statistics, Sysadmin Tools, and Help. The main content area is titled 'IP Addresses for this virtual machine' and includes a yellow informational box with instructions. Below this is a table with columns for IP Address, Netmask, Gateway, and Physical Network. The table contains one row with the following data: IP Address: 79.170.198.136, Netmask: 255.255.255.0, Gateway: 79.170.198.1, Physical Network: public (Cloud02) (on eth0 interface). At the bottom of the table are buttons for 'Rebuild Network' and 'Allocate New IP Address Assignment'. The breadcrumb trail at the bottom reads: Dashboard > Virtual machines > jk-2010 > IP Addresses for this VM.

IP Address	Netmask	Gateway	Physical Network
79.170.198.136	255.255.255.0	79.170.198.1	public (Cloud02) (on eth0 interface)

Fig 13 – IP Addresses

- 1: Select your **Network Interface from the drop down list below.**
- 2: Select IP Address from the IP Address drop down menu.
- 3: Click on 'Add IP Address Assignment'

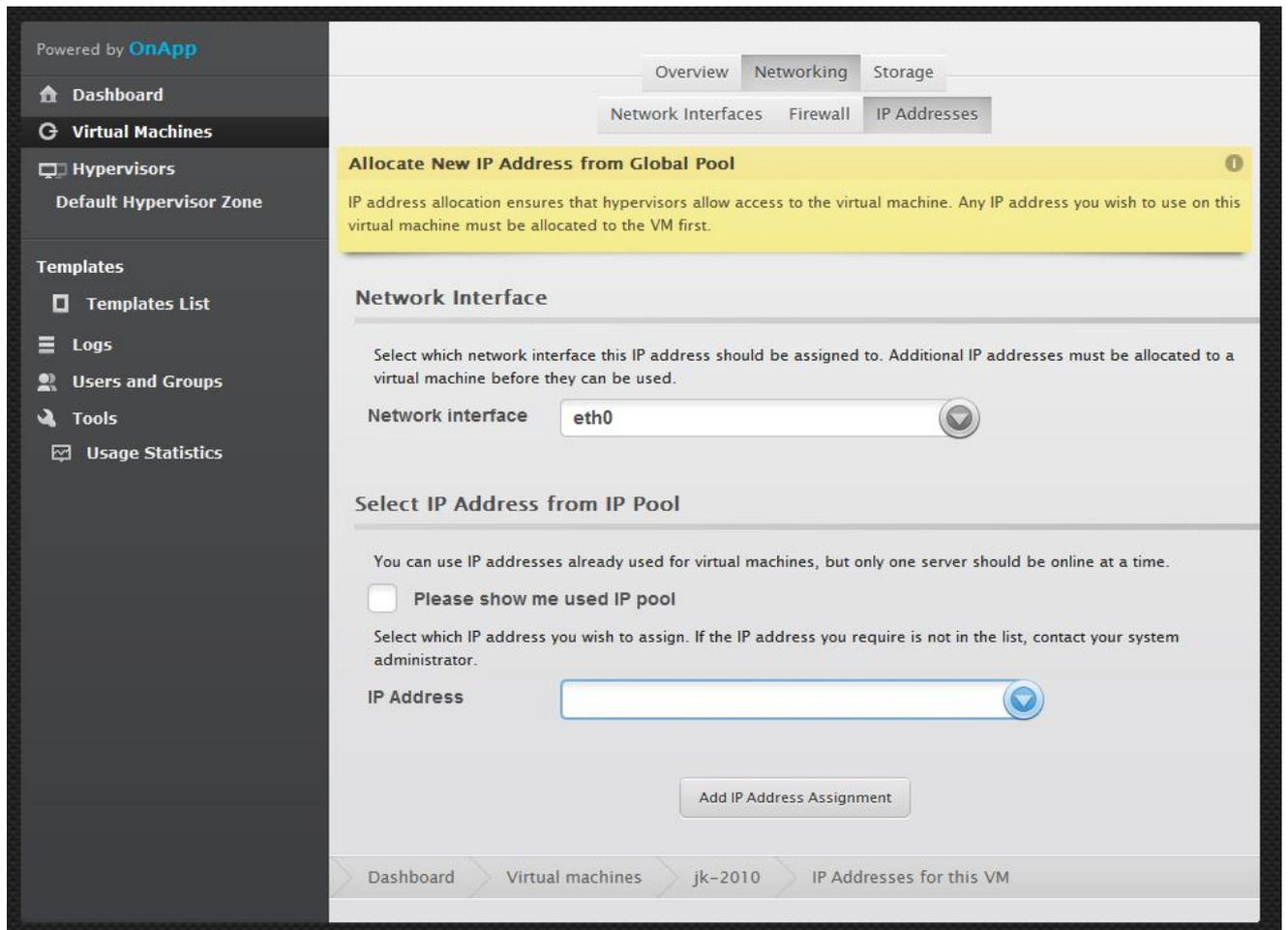


Fig 14 – Selecting an IP address

Storage Settings

In Storage Settings you can create automated backups and edit your backup systems. You can modify and edit the storage space as required. The Autobackup feature allows you to make an automated backup of your disk drive. All backups are made on a daily basis.

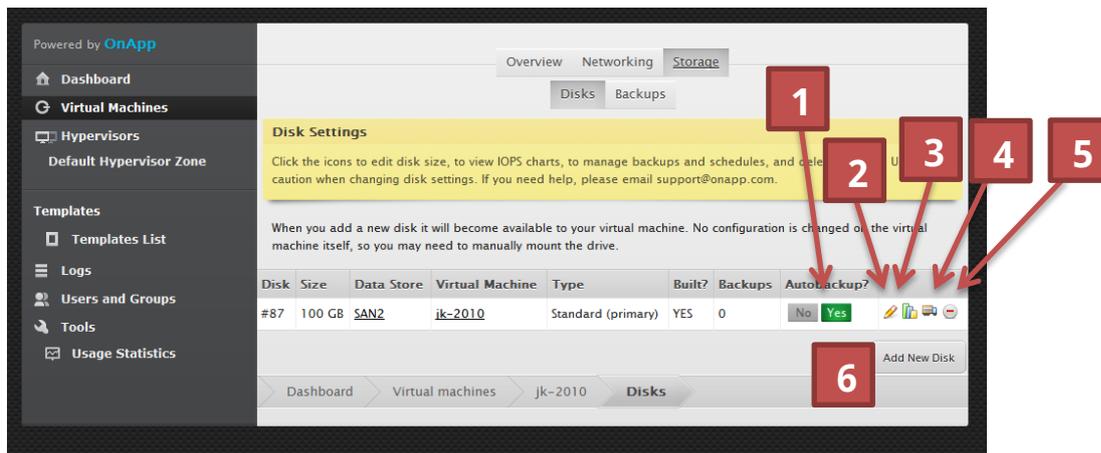


Fig 15 – Storage Settings

1 – Autobackup

The Auto backup feature allows you to automatically backup your data.

2 – Edit disk parameters

This option allows you to increase the capacity of your hard disk.

3 – Disk usage

You can monitor the disc space used on your virtual machine. This resourceful information allows you to decide whether you need additional resource.

4 – Backups list

This section is a list of your current backups.

5- Destroy disk

This is where you can remove a virtual machine.

6 – Add a new disk

This is where you can remove a virtual machine.

How to add a new disk?

Adding a new disk is ideal for high availability plus a number of new opportunities are available. For instances, you can create multiple disks on a number of SANs to reduce down time. If you have a high traffic online presence, it is imperative to reduce down time drastically. Therefore, when creating a new disk, ensure that you use a separate SAN. In the event of a SAN server failing you have an alternative place to access your storage.

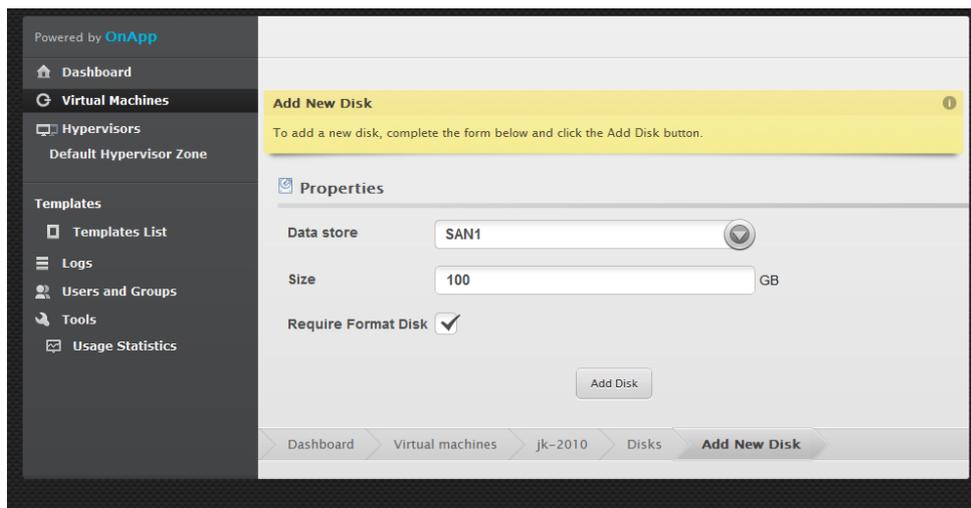


Fig 16 – Create a new disk

Templates

The Templates section is a list of operating systems that can be added to your virtual machine quickly and efficiently. For example, you may need an additional Linux server - the control panel needs installation information about each operating system. The templates call the information easily and effectively.

Also in the templates section you can access your virtual machines by choosing the current operating system that you are using.

Logs

The Logs section records any changes to your virtual machine(s).

Ref	Date	Action	Status	Target	Dependent
1600	20 Jun 10:51	StartupVirtualMachine	Complete ✓	VirtualMachine#m5wp30dqmox9f4	1599
1599	20 Jun 10:51	FormatDisk	Complete ✓	Disk#88	1598
1598	20 Jun 10:51	BuildDisk	Complete ✓	Disk#88	1597
1597	20 Jun 10:51	StopVirtualMachine	Complete ✓	VirtualMachine#m5wp30dqmox9f4	
1596	20 Jun 09:44	StartupVirtualMachine	Complete ✓	VirtualMachine#m5wp30dqmox9f4	1595
1595	20 Jun 09:44	ResizeDisk	Complete ✓	Disk#87	1594
1594	20 Jun 09:44	StopVirtualMachine	Complete ✓	VirtualMachine#m5wp30dqmox9f4	
1593	20 Jun 09:33	UpdateFirewall	Complete ✓	NetworkInterface#57	
1589	10 Jun 14:16	StartupVirtualMachine	Complete ✓	VirtualMachine#m5wp30dqmox9f4	
1588	07 Jun 15:53	StopVirtualMachine	Complete ✓	VirtualMachine#m5wp30dqmox9f4	
1587	07 Jun 15:51	StopVirtualMachine	Complete ✓	VirtualMachine#fa2frp5svp56lxa	
1586	07 Jun 15:37	StopVirtualMachine	Complete ✓	VirtualMachine#u7l718e3k51lo3	
1585	07 Jun 15:37	StartupVirtualMachine	Complete ✓	VirtualMachine#m5wp30dqmox9f4	1584

Fig 17 – Server logs

Users and Groups

This section is dedicated to: users, user groups, billing plans where you can your review daily expenses and your billing plan.

User	Login	Email	Roles / User Group	
James King active	jking	james@betterstartblo	(as User) Undefined	Virtual Machines Payments Billing Plan Monthly Bills User Statistics

Fig 18 – An overview of user settings

Tools and Usage Statistics

The Usage Statistics gives you daily breakdown of your hosting usage. The usage statistics allows you to assess and evaluate whether you need additional resources. Over a period of time you can predict which days of the week you require more resources.

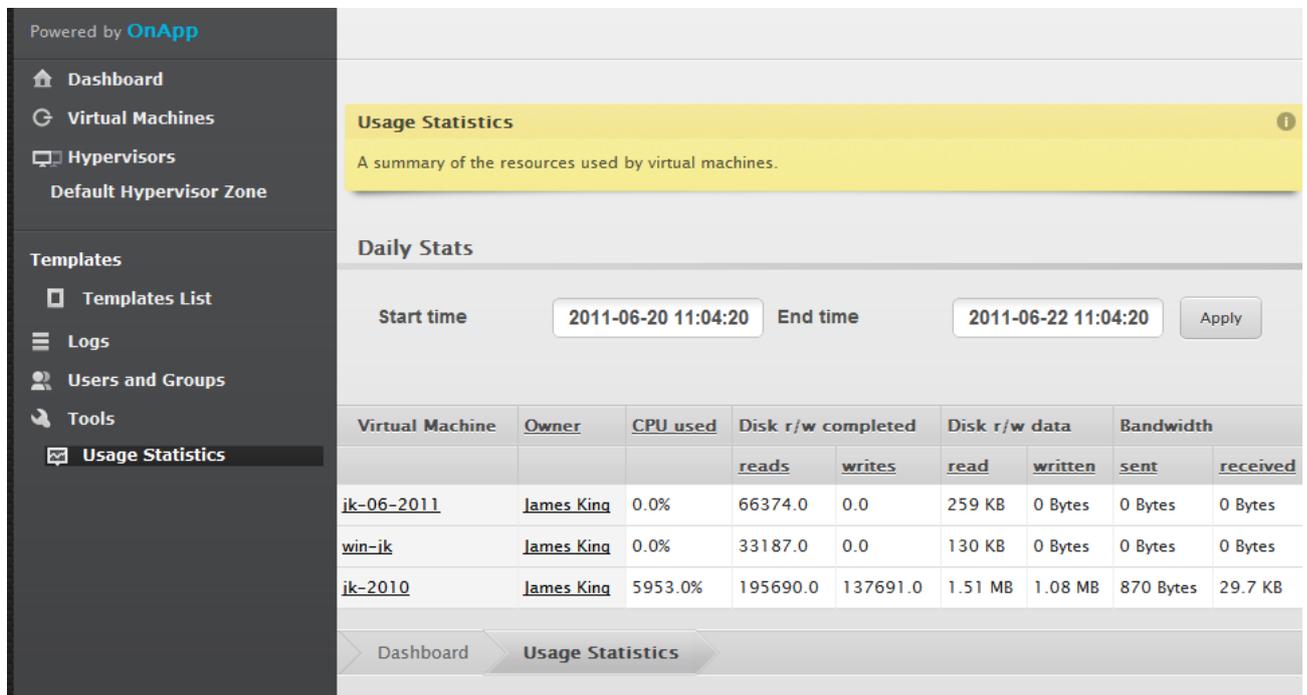


Fig 19 – Usage statistics

Further Assistance

If you require further assistance, the Intrahost Fast and Friendly support team will be more than happy to assist you with any technical issues.

Please visit our [ticketing system](#) or [Knowledgebase](#) on the Intrahost website.

Or call Intrahost on **0845 680 3812**.