

CIRB-CIBG PRIVATE CLOUD

User Guide



MyCloud

.cirb.brussels

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Introduction

Welcome to the **Quick Start User Guide** to your new vCloud Tenant.

Here you will find all the needed information to administrate your own Virtual Infrastructure as a Service (IaaS).

In case of more questions, don't hesitate to contact your Service Manager for information.

Lexicon

What Is vCloud Director ?

VMware vCloud Director is a leading cloud service-delivery platform used by some of the world's most popular cloud providers to operate and manage successful cloud-service businesses. Using vCloud Director, cloud providers deliver secure, efficient, and elastic cloud resources to thousands of enterprises and IT teams across the world. vApp : Virtual Application Container

What is OVDC : Organization Virtual Data Center ?

An organization virtual data center is a subgrouping of compute, storage, and network resources allocated from a provider virtual data center and mapped to an organization. Organization virtual data centers are deployment environments where vApps can be instantiated, deployed, and powered on.



Glossary Term

Term	Definition
Allocation Pool	A pool of allocated resources for which a certain percentage of compute resources is guaranteed.
Availability Zone	Single failure domain of resources.
Catalog	A repository of vApp templates and media available to users for deployment. Catalogs can be published and shared between organizations in the same vCloud environment.
Dedicated Cloud	Cloud resources dedicated to one tenant on dedicated physical infrastructure.
Edge Gateway	Virtual appliances that provide network edge security. Edge gateways connect the isolated, private networks of cloud tenants to the public side of the provider network through services such as routing, firewall, NAT, DNS relay, DHCP, site-to-site IPsec VPN, and load balancing.
External Networks	External networks provide internet connectivity to organization networks and are backed by port groups configured for Internet accessibility.
Management Cluster	Physical and virtual resources dedicated for management purposes.
Network Pools	Collections of isolated Layer 2 virtual networks available to vCloud Director for the automated deployment of organization and vApp networks.
On-Demand Cloud	Cloud resources that are committed to tenant and billed only when used.
Organization	The unit of multitenancy representing a single logical security boundary. An organization contains users, virtual data centers and catalogs.

Organization Administrator	Administrator for a vCloud Director organization responsible for managing provided resources, network services, users, and vApp policies.
Organization VDC Networks	Organization VDC networks are instantiated through network pools and bound to a single organization VDC or shared across Organization. Organization VDC networks can be isolated, routed, or directly connected to an external network.

Requirements

To access the new HTML5 portal you need :

1. An up to date Operating System listed:
 - MS Windows 7 or above
 - Linux RedHat 7 or above
 - Mac OS X Mojave of above
2. A dedicated Web Browser:
 - Google Chrome 73.0 or higher (Officially Supported)
 - Mozilla Firefox New version
 - Microsoft Internet explorer 11
 - Microsoft Edge

Overview of the vCloud Director Tenant Portal.

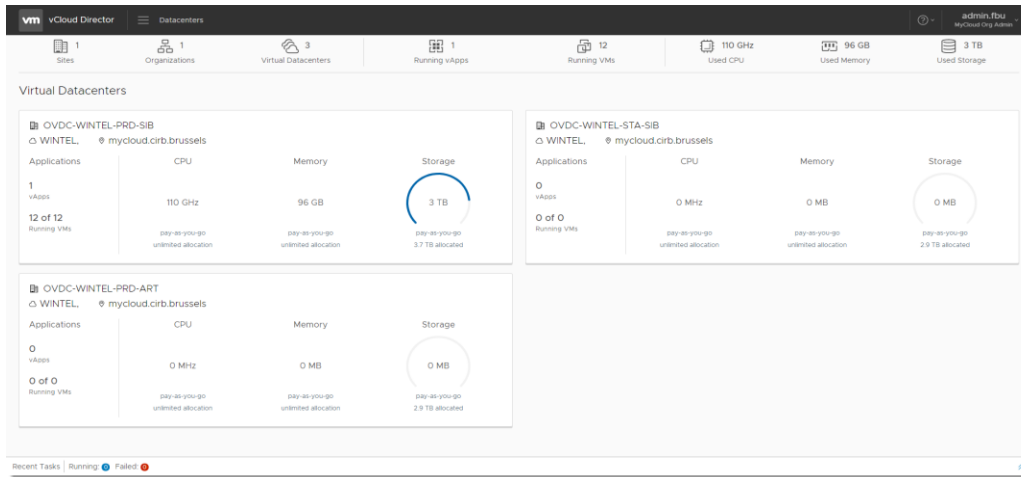
Your Virtual Datacenters (OVDC)

Open following URL to access your portal

https://mycloud.cirb.brussels/tenant/Your_Provided_ORG_Name/

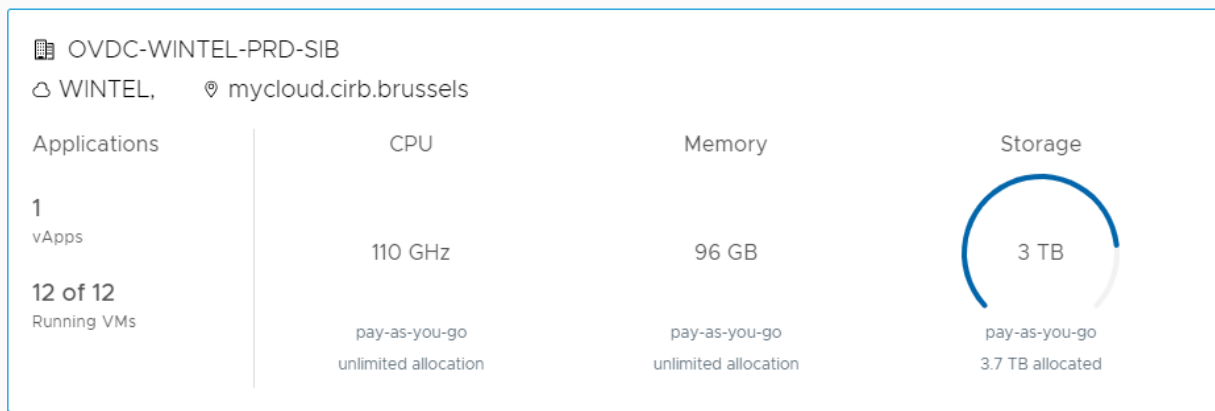


Enter your credentials to access your own virtual environment administration portal



NOTE

Each geographical datacenter will be presented as an OVDC.
 In the Main Dashboard you can access the new virtual organization datacenters.
 To get more detailed information, just click on the OVDC of your choice



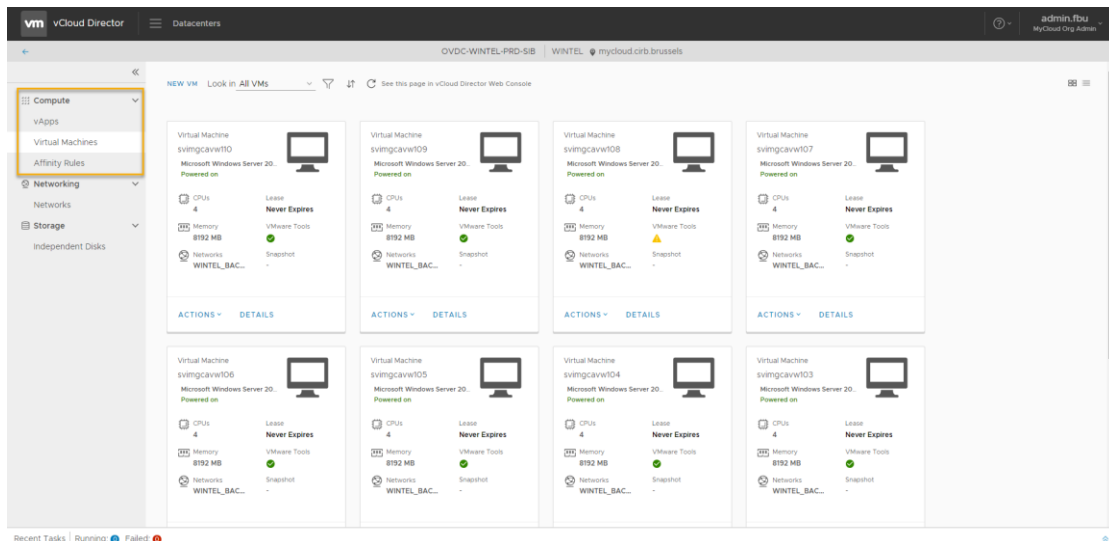
The frame will appear with a blue shadow.

Your Computes (CPU,RAM,STORAGES)

Filters can be made by VM's or by vApps Containers.

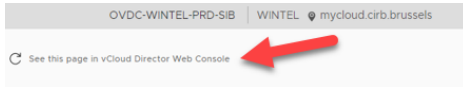
This will give you a complete overview of the assigned compute resources.

1. Virtual Machines view

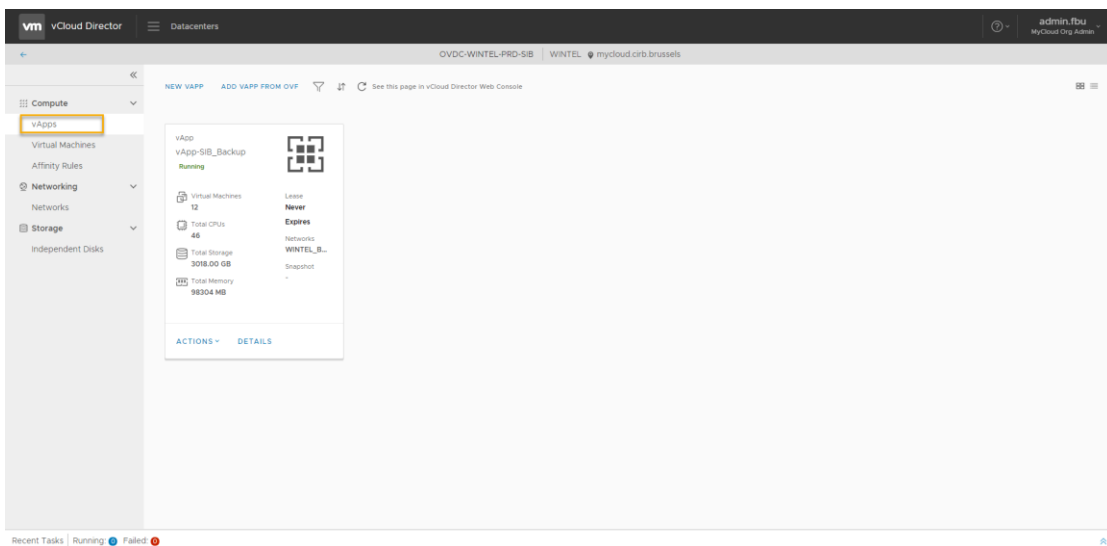


The screenshot shows the vCloud Director interface for the 'WINTEL' datacenter. The left-hand navigation menu is open, with 'Compute' selected. The main area displays a grid of 8 Virtual Machine cards, each representing a Microsoft Windows Server 2012 R2 VM. The cards are arranged in two rows of four. Each card shows the VM name (e.g., svimgcavw100), its status (Powered on), and resource usage for CPUs (4), Memory (8192 MB), and Networks (WINTEL_BAC...). The 'Lease' status is 'Never Expires'. The interface includes a top navigation bar with 'vCloud Director' and 'Datacenters', and a bottom status bar showing 'Recent Tasks | Running | Failed'.

Note: Use can easily switch to the Legacy (Flex) Web Console in Flash simply by clicking on the link at the top of the screen :



2. vApps Containers view



3. Alternative views

VM's

name	status	OS	Memory	CPU	vApp Name	Storage Policy	Snapshot	IP Address	Networks
vringcav10	Powered on	Microsoft Windows Server	8192 MB	4	vApp-SIB_Backup	SILVER	-	192.168.253.113	WINTEL_BACKUP
vringcav109	Powered on	Microsoft Windows Server	8192 MB	4	vApp-SIB_Backup	SILVER	-	192.168.253.109	WINTEL_BACKUP
vringcav108	Powered on	Microsoft Windows Server	8192 MB	4	vApp-SIB_Backup	SILVER	-	192.168.253.108	WINTEL_BACKUP
vringcav107	Powered on	Microsoft Windows Server	8192 MB	4	vApp-SIB_Backup	SILVER	-	192.168.253.107	WINTEL_BACKUP

vApps

name	status	Total CPU	Total Memory	VMS	Owner	Created On	Shared	Snapshot
vApp-SIB_Windows	Stopped	2	851024	1	admin.fbu	4/7/2019, 10:47 AM	-	-
vApp-SIB_Backup	Running	46	98304	12	admin	3/25/2019, 4:22 PM	☑	-

vApps

Why to use vApps Containers ?

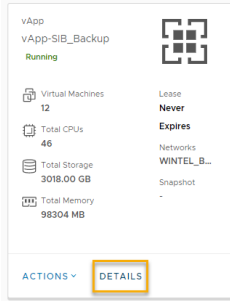
vApps gives access to :

- Flexibility
- Security
- Automation

A vApp is an application container containing one or more virtual machines. Similarly to a vm, a vApp can be powered on or off, suspended and even cloned. A great feature is the ability to have virtual machines power up (or shut down) in a sequential order. You can specify the time taken in between powering up or shutting down vm's.

vApps offers to you :

- Container for multiple virtual machines
- Resource controls for the VMs inside the container
- Network configurations
- Flexibility of the vApp, everything can be contained and transferred to another virtual infrastructure
- Entire vApps can be powered on/powerd off/suspended or shutdown
- Entire vApps can be cloned



vApps Containers have been drastically improved since the first version of vCloud Director. Click on “DETAILS” to discover a lot of new features.

Details

1. VM details

Name	Status	OS	Networks	VMware Tools Version	Snapshot	Storage
SVIMGCAVL065	Powered on	Other (32-bit)	NIC Network IP Address 0 WINTEL_BACKUP 192.168.253.110	Not installed	-	SILVER
svimgcavw100	Powered on	Microsoft Windows Server 2012 (64-bit)	NIC Network IP Address 0 WINTEL_BACKUP 192.168.253.100	10338	-	GOLD
svimgcavw101	Powered on	Microsoft Windows Server 2012 (64-bit)	NIC Network IP Address 1 WINTEL_BACKUP 192.168.253.101	10338	-	GOLD
svimgcavw102	Powered on	Microsoft Windows Server 2012 (64-bit)	NIC Network IP Address 0 WINTEL_BACKUP 192.168.253.102	10338	-	SILVER
svimgcavw103	Powered on	Microsoft Windows Server 2012 (64-bit)	NIC Network IP Address 0 WINTEL_BACKUP 192.168.253.103	10338	-	GOLD
svimgcavw104	Powered on	Microsoft Windows Server 2012 (64-bit)	NIC Network IP Address 0 WINTEL_BACKUP 192.168.253.104	10338	-	SILVER
svimgcavw105	Powered on	Microsoft Windows Server 2012 (64-bit)	NIC Network IP Address 0 WINTEL_BACKUP 192.168.253.105	10338	-	GOLD

2. Leases (VM's can expire after a lease period)

Name	Status	OS	Networks	VMware Tools Version	Snapshot	Storage
SVIMGCAVL065	Powered on	Other (32-bit)	NIC Network IP Address 0 WINTEL_BACKUP 192.168.253.110	Not Installed	-	SILVER
svimgcavw100	Powered on	Microsoft Windows Server 2012 (64-bit)	NIC Network IP Address 0 WINTEL_BACKUP 192.168.253.100	10338	-	GOLD
svimgcavw101	Powered on	Microsoft Windows Server 2012 (64-bit)	NIC Network IP Address 1 WINTEL_BACKUP 192.168.253.101	10338	-	GOLD
svimgcavw102	Powered on	Microsoft Windows Server 2012 (64-bit)	NIC Network IP Address 0 WINTEL_BACKUP 192.168.253.102	10338	-	SILVER
svimgcavw103	Powered on	Microsoft Windows Server 2012 (64-bit)	NIC Network IP Address 0 WINTEL_BACKUP 192.168.253.103	10338	-	GOLD
svimgcavw104	Powered on	Microsoft Windows Server 2012 (64-bit)	NIC Network IP Address 0 WINTEL_BACKUP 192.168.253.104	10338	-	SILVER
svimgcavw105	Powered on	Microsoft Windows Server 2012 (64-bit)	NIC Network IP Address 0 WINTEL_BACKUP 192.168.253.105	10338	-	GOLD

3. The start & stop order

Advanced

Start and Stop Order

Start Order	Virtual Machine	Start Action	Start Wait	Stop Action	Stop Wait
0	svimgcavw106	Power On (Default)	5	Power Off (Default)	5
1	svimgcavw104	Power On (Default)	0	Power Off (Default)	0
2	svimgcavw100	Power On (Default)	0	Shut Down	0
3	svimgcavw108	Power On (Default)	1	Shut Down	5

4. Administrative rights

Sharing

Share with specific users or groups

Users and groups with no access

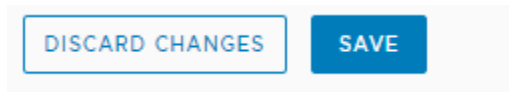
Name
fla
admin
jlb
tie
admi
fnir
ife
wcau
fbu

Users and groups with access

User Type	Name	Access Level
User	jlb	Full Control
User	tie	Full Control
User	fla	Full Control

Note: Rights are details in the "User Rights" chapter.

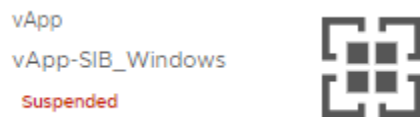
5. Save or discard modifications
Don't forget to save your work at the end of the page



Actions

All actions available are listed below

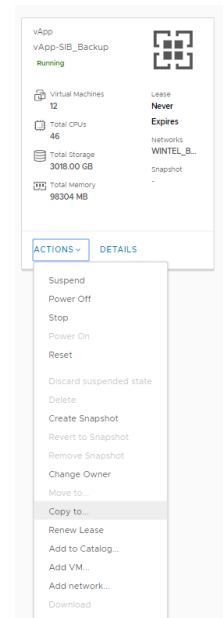
1. "Suspend" (all VM's contained), this option is useful when you want to freeze the current state to manage (or move) the vApp



2. "Power Off", with just one click all VM's are powered off by following your start&stop procedure
3. "Stop", the vApp disconnect any link with your environment. With this option you can be sure of the real state of your vApp before copy or move it to another datacenter.

Note: This state is mandatory to delete it.

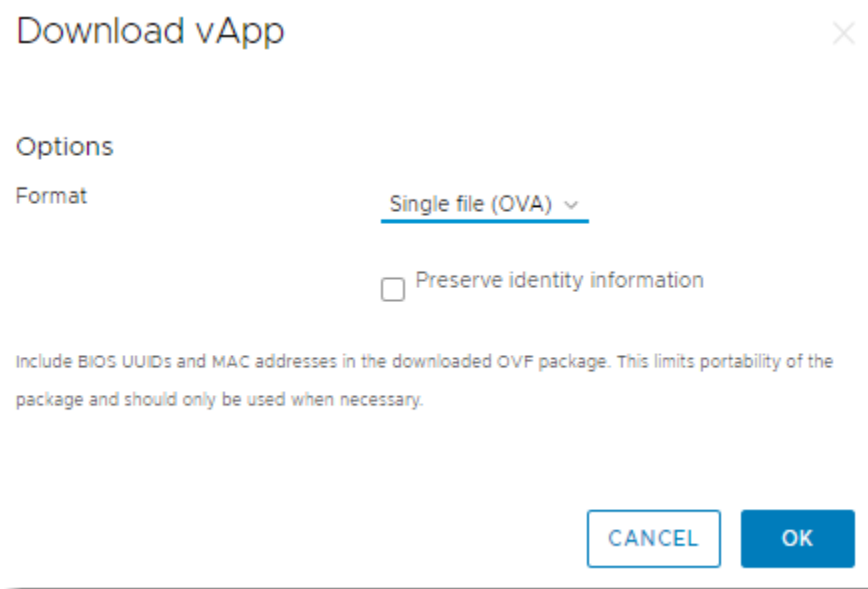
4. "Create Snapshot", create a complete snapshot of the vApp and all VM's contained
5. "Revert/Remove Snapshot", greyed out until a snapshot is made
Note: Only one snapshot per vApp or VM is permitted



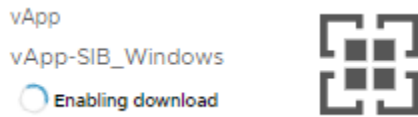
6. “Change Owner”, give rights to another dedicated user.
7. “Move to”, a feature to move a group of VM’s to another datacenter by yourself without additional support

Note: this feature is only available when the vApp is in “Stop” state

8. “Copy to”, to clone a group of VM’s in HOT state (VM’s powered up).
9. “Renew Lease”, to extend a current lease for development of test purposes
10. “Add to catalog”, add a whole vApp as a template in your personal catalog. By this feature you can re-use the entire vApp like it was a simple VM
11. “Add VM” , insert a VM to the current vApp
12. “Add network”, add an enterprise LOCAL/DMZ or IMZ into the vApp
13. “Download”, convert your vApp into an OVA Standard format



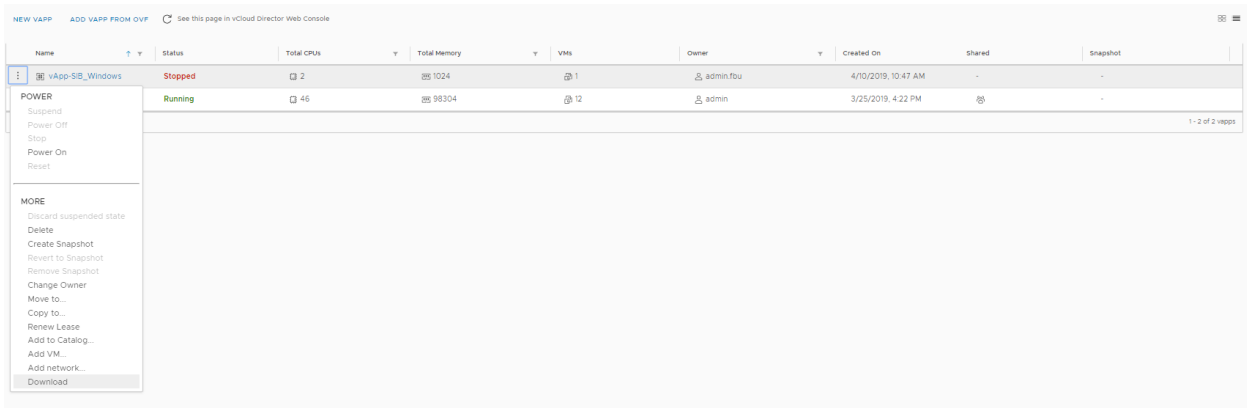
Note: To Enable the download may depend of your Internet connection:



The alternate view

It offers a new compact view of all informations.

Actions are available here:



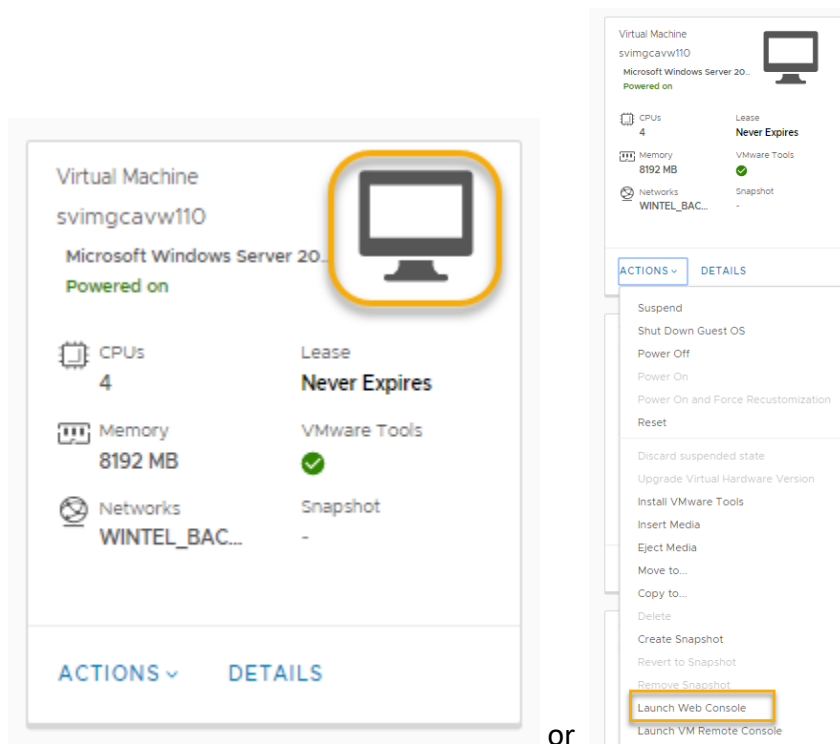
VM and console view

The management of VM's is identical to vApps but it offers the console view too.

With MyCloud you have access to two different consoles.

The **Web Console** is the light legacy that has the advantage to be embedded (without any external software) but offers less options.

To access this console click on the VM Logo or click in the “ACTIONS” menu



The second one is the **VMRC Console**. To gain access you need to download this software from the official VMware site.

PS : For CIRB local users **VMRC Console** is published by **SCCM(*)** :

**Microsoft System Center Configuration Manager.*

Software Center

CIRB-CIBG

Applications 1

Updates

Operating Systems

Installation status

Device compliance

Options

All Required

Filter: All

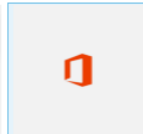
Sort by: Most recent



TechSmith Snagit
With Uninstaller...
TechSmith Corporati...
2019



VMware Remote
Console
VMware
10.0.4



Office 365 ProPlus
x64 (1901)
Microsoft
1901



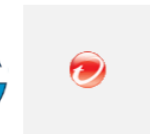
HP Image
Assistant
Hewlett Packard
3.5.27.1



Microsoft Teams
Microsoft



Crestron AirMedia
V3
Crestron
3.3.1.14



Trend Micro
OfficeScan Agent...
Trend Micro
SP1

Software Center

CIRB-CIBG

Applications 1

Updates

Operating Systems

Installation status

Device compliance

Options

Applications > Application details



VMware Remote Console

Published by VMware

Install

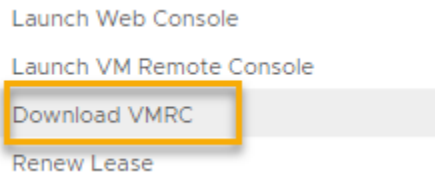
Status: Available
Version: 10.0.4
Date published: Not specified

Restart required: No
Download size: Less than 1 MB
Estimated time: Not specified
Total components: 0

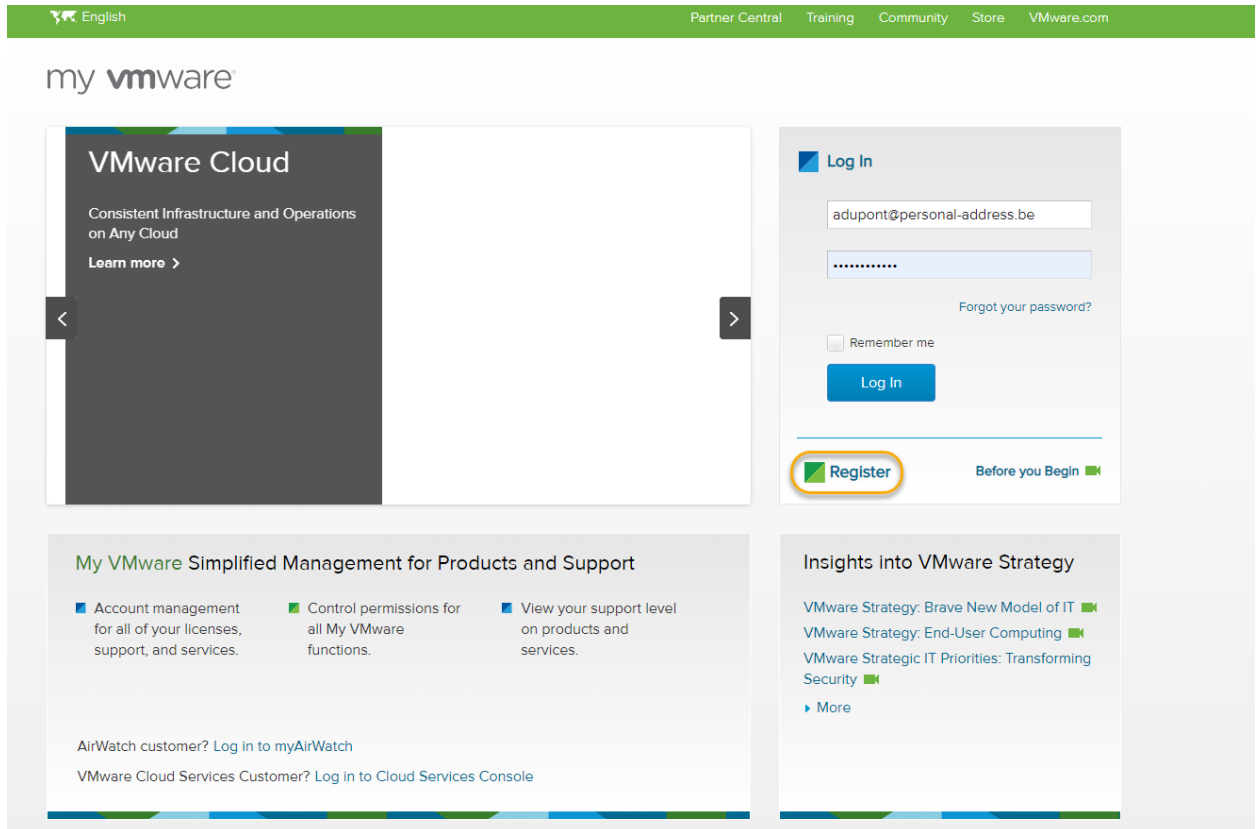
In the “ACTIONS” menu go to “Download VMRC” this will redirect you to the VMware official site.

Optionally you can go through our internal portal for direct usage. Please refer to your service manager for more information.

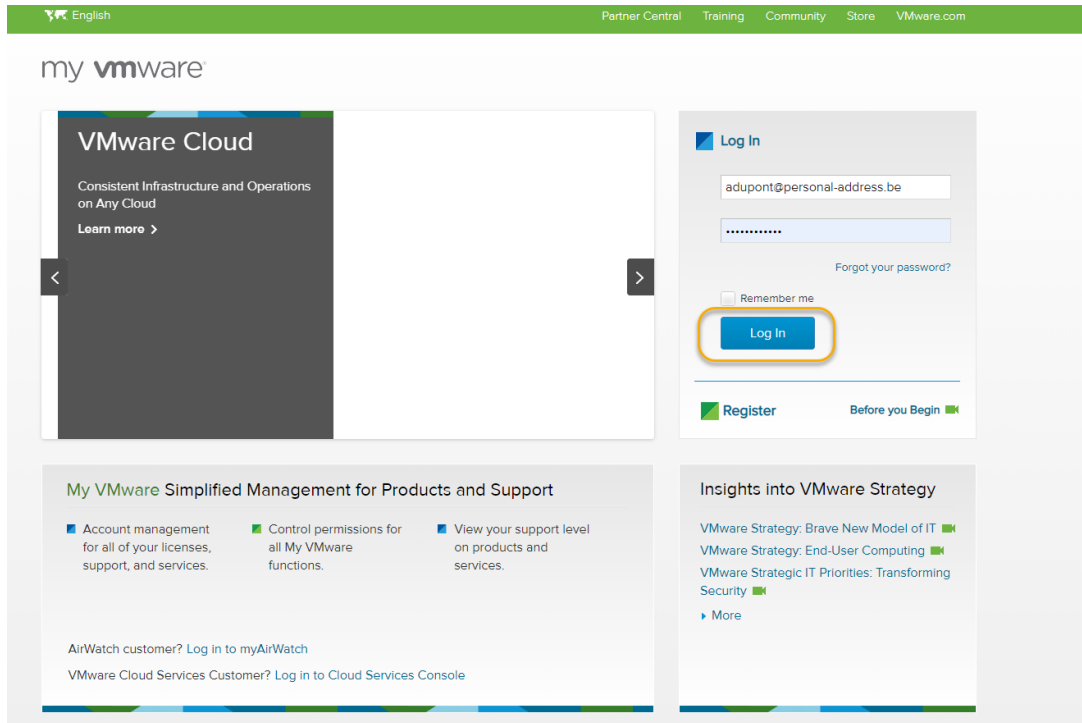
1. Click...



2. Register a VMWare account



3. Enter into the site



4. Download the VMware Remote Console for Windows, Mac or Linux:

File	Information
Prior versions of Remote Console can be found in the Drivers & Tools tab of the vSphere download page	
VMware Remote Console 10.0.4 for Windows	Download Now
File size: 40.28 MB File type: zip Read More	
VMware Remote Console 10.0.4 for Mac	Download Now
File size: 21.62 MB File type: dmg Read More	
VMware Remote Console 10.0.4 for Linux	Download Now
File size: 53.80 MB File type: sh Read More	

Note : You must have administrative rights to your PC to install this plugin.

Tips and Tricks:

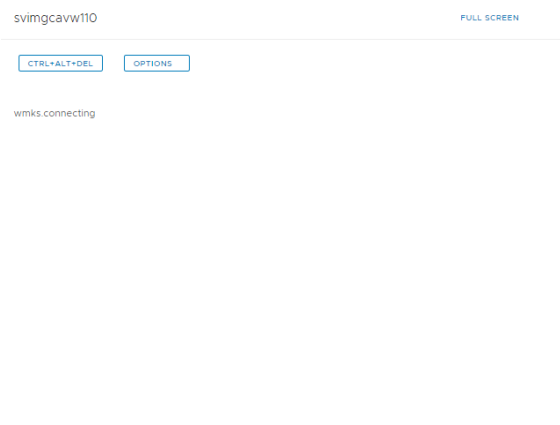
vCloud Director uses public certificates to authorize your connection to our service.

If you cannot connect to the Web Console refresh your browser, the MyCloud page will reauthorize your console access.

This doesn't affect current opened web- or VMRC consoles.

Step-by-Step:

In case of following scenario



1. Refresh your Browser Page (**F5** on Chrome/Windows Version)
2. Close all your consoles and launch it again

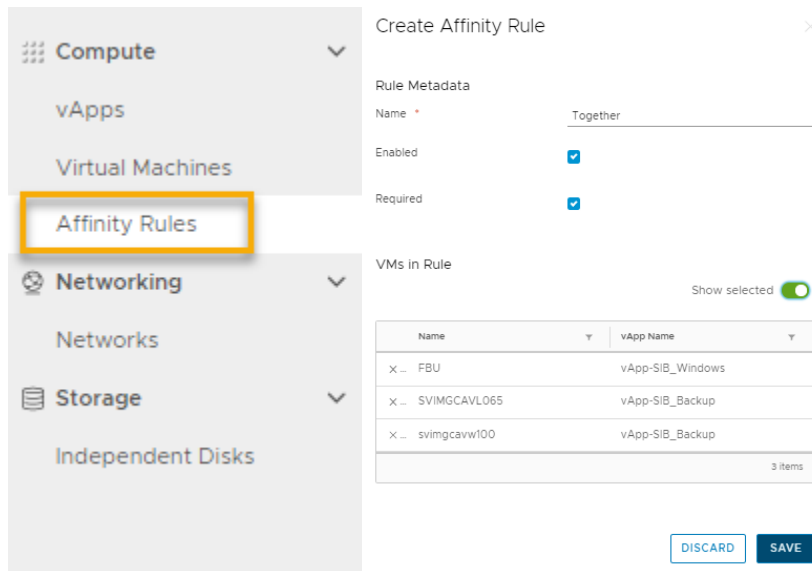
Affinity & Anti-Affinity Rules

Another feature is the possibility to optimize VM's placement. This means the possibility to dynamically put your VM's on the same host (affinity) or on different hosts (anti-affinity).

Examples:

- If you need to have faster communication between VM's you can use Affinity Rules to keep VM's together on the same host.
- At the opposite you can use Anti-Affinity Rules to avoid VM's to work on the same host to be sure that the same compute is not used by VM's.

Configure this feature, click on Affinity Rules



Compute (dropdown)
vApps
Virtual Machines
Affinity Rules (highlighted)
Networking (dropdown)
Networks
Storage (dropdown)
Independent Disks

Create Affinity Rule [X]

Rule Metadata

Name: Together

Enabled:

Required:

VMs in Rule Show selected:

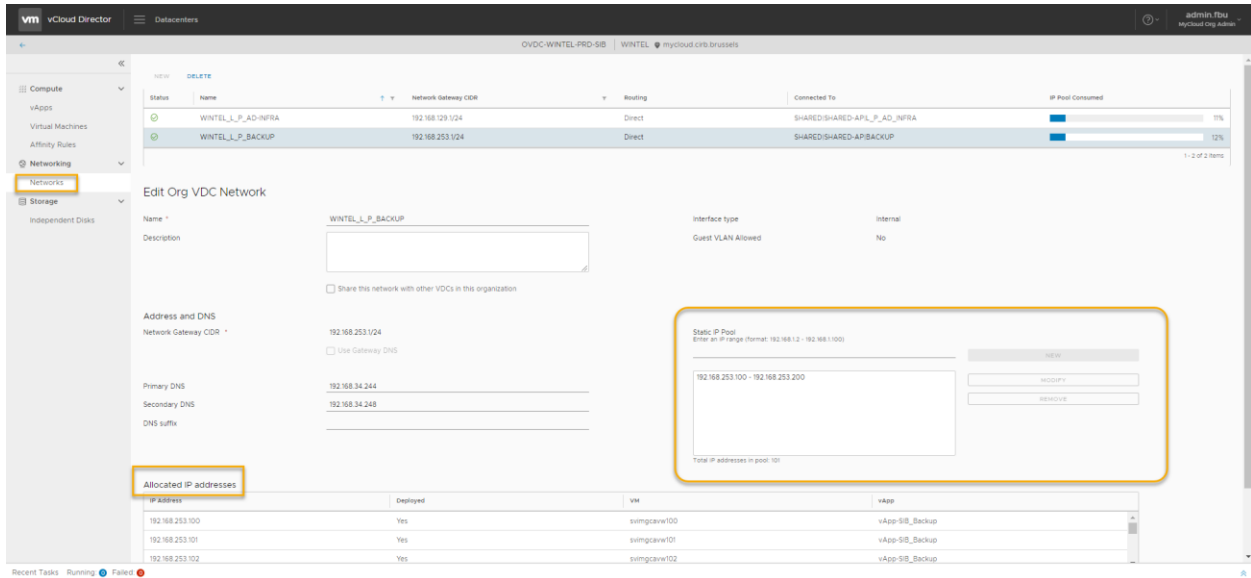
Name	vApp Name
x - FBU	vApp-SIB_Windows
x - SVMGCAVL065	vApp-SIB_Backup
x - svimgcavw100	vApp-SIB_Backup

3 items

DISCARD SAVE

Networking

Authorized users can see all used ip's of an IP-pool linked to your datacenter



You can monitor and administer you own network pool here.

A lot of services will come soon but for now every External Network Registering must be made by the CIRB Network Team.

Storage

Every VM have an access to different storage policies.

1. **AUTO** : the default storage option that manage dynamicaly the storage depending of the real usage of the machine. This process is fully automated and can't be managed.
Examples: any common usage
2. **GOLD** : Ultra Fast Flash drive access. Usage to rise I/Ops for machines that need fast drive access.
Examples: DB Server – BI Clusters,...
3. **SILVER**: 10KSAS drive access. The common way to store any kind of standard machines.
Examples: Web Servers – File Servers, Calculation servers,...
4. **Hybrid** : You can mix Silver and Gold disks on the **same machine**.
Examples: BI server primary disk- gold and archiving disk- silver,...

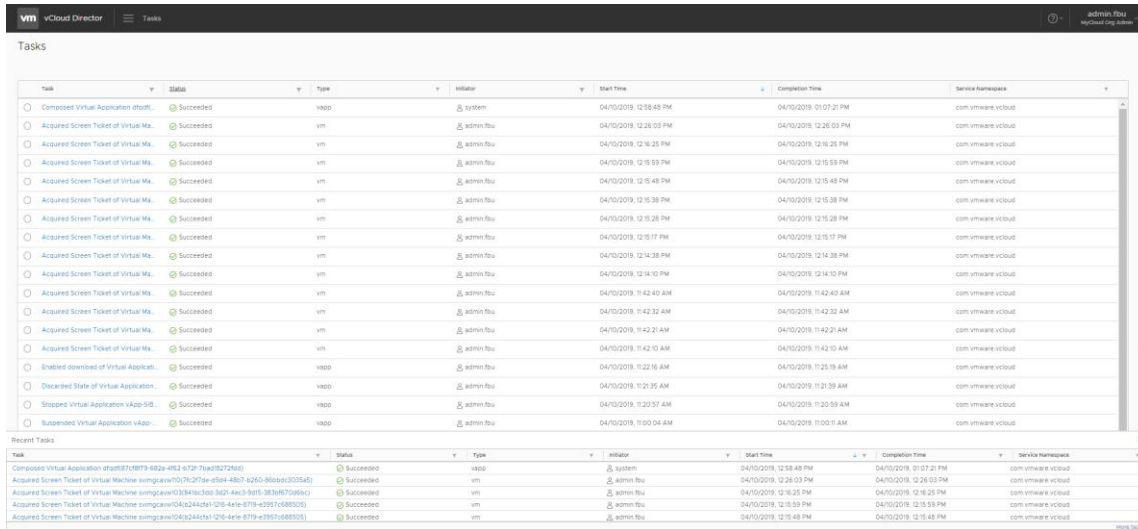
Note : Storage Policies Resources depends of your contract. GOLD Policy is limited so don't hesitate to contact your Service Manager for more information.

Libraries

When you select the “Libraries” Option you can manage your templates.

This feature as a service will appear soon.

Tasks and Events



Task	Status	Type	Initiator	Start Time	Completion Time	Service Namespace
Composed Virtual Application efb0...	Succeeded	vapp	system	04/10/2019, 12:58:48 PM	04/10/2019, 01:07:21 PM	com.vmware.vcloud
Acquired Screen Ticket of Virtual Ma...	Succeeded	vm	admin.fbu	04/10/2019, 12:26:03 PM	04/10/2019, 12:26:03 PM	com.vmware.vcloud
Acquired Screen Ticket of Virtual Ma...	Succeeded	vm	admin.fbu	04/10/2019, 12:16:25 PM	04/10/2019, 12:16:25 PM	com.vmware.vcloud
Acquired Screen Ticket of Virtual Ma...	Succeeded	vm	admin.fbu	04/10/2019, 12:15:59 PM	04/10/2019, 12:15:59 PM	com.vmware.vcloud
Acquired Screen Ticket of Virtual Ma...	Succeeded	vm	admin.fbu	04/10/2019, 12:15:48 PM	04/10/2019, 12:15:48 PM	com.vmware.vcloud
Acquired Screen Ticket of Virtual Ma...	Succeeded	vm	admin.fbu	04/10/2019, 12:15:38 PM	04/10/2019, 12:15:38 PM	com.vmware.vcloud
Acquired Screen Ticket of Virtual Ma...	Succeeded	vm	admin.fbu	04/10/2019, 12:15:28 PM	04/10/2019, 12:15:28 PM	com.vmware.vcloud
Acquired Screen Ticket of Virtual Ma...	Succeeded	vm	admin.fbu	04/10/2019, 12:15:17 PM	04/10/2019, 12:15:17 PM	com.vmware.vcloud
Acquired Screen Ticket of Virtual Ma...	Succeeded	vm	admin.fbu	04/10/2019, 12:14:38 PM	04/10/2019, 12:14:38 PM	com.vmware.vcloud
Acquired Screen Ticket of Virtual Ma...	Succeeded	vm	admin.fbu	04/10/2019, 12:14:10 PM	04/10/2019, 12:14:10 PM	com.vmware.vcloud
Acquired Screen Ticket of Virtual Ma...	Succeeded	vm	admin.fbu	04/10/2019, 11:42:40 AM	04/10/2019, 11:42:40 AM	com.vmware.vcloud
Acquired Screen Ticket of Virtual Ma...	Succeeded	vm	admin.fbu	04/10/2019, 11:42:32 AM	04/10/2019, 11:42:32 AM	com.vmware.vcloud
Acquired Screen Ticket of Virtual Ma...	Succeeded	vm	admin.fbu	04/10/2019, 11:42:21 AM	04/10/2019, 11:42:21 AM	com.vmware.vcloud
Acquired Screen Ticket of Virtual Ma...	Succeeded	vm	admin.fbu	04/10/2019, 11:42:10 AM	04/10/2019, 11:42:10 AM	com.vmware.vcloud
Enabled download of Virtual Applicat...	Succeeded	vapp	admin.fbu	04/10/2019, 11:25:16 AM	04/10/2019, 11:25:19 AM	com.vmware.vcloud
Discarded State of Virtual Applicati...	Succeeded	vapp	admin.fbu	04/10/2019, 11:21:35 AM	04/10/2019, 11:21:39 AM	com.vmware.vcloud
Stopped Virtual Application vApp-518...	Succeeded	vapp	admin.fbu	04/10/2019, 11:20:57 AM	04/10/2019, 11:20:59 AM	com.vmware.vcloud
Suspended Virtual Application vApp-...	Succeeded	vapp	admin.fbu	04/10/2019, 11:00:04 AM	04/10/2019, 11:00:11 AM	com.vmware.vcloud

Note: You can have access to Tasks and Events from the task bar at the bottom of the portal page:



User Rights

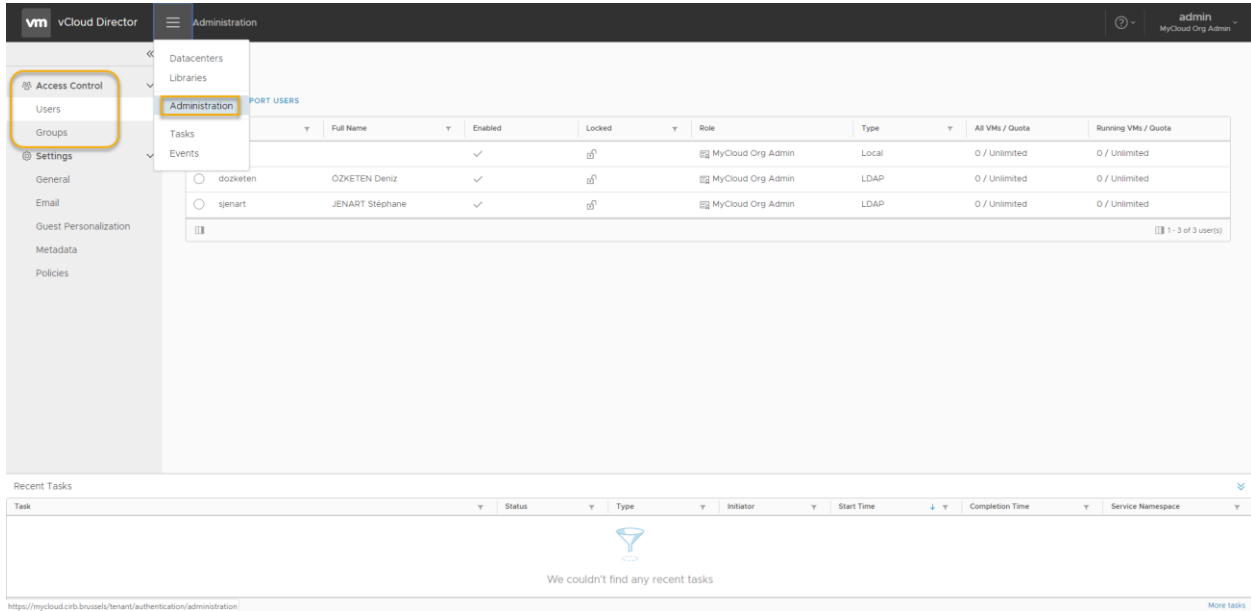
It's important to control access to your Virtual Infrastructure.

You can assign four specific rights:

- **MyCloud Org Admin:** Authorize creation & administration of the Org (including user rights) + MyCloud Super User Rights.
- **MyCloud Super user:** gives you the opportunity to see and manage all vApps (shared or not) + MyCloud User Rights.
- **MyCloud user:** to manage your own vApps only + MyCloud Console Rights.
- **MyCloud console:** simple view mode. (Read Only + Console).

You can manage users in two different sections depending of your initial rights.

If you are an Org Admin, you can manage all users of the ORG by clicking on “Administration” in the main Menu.

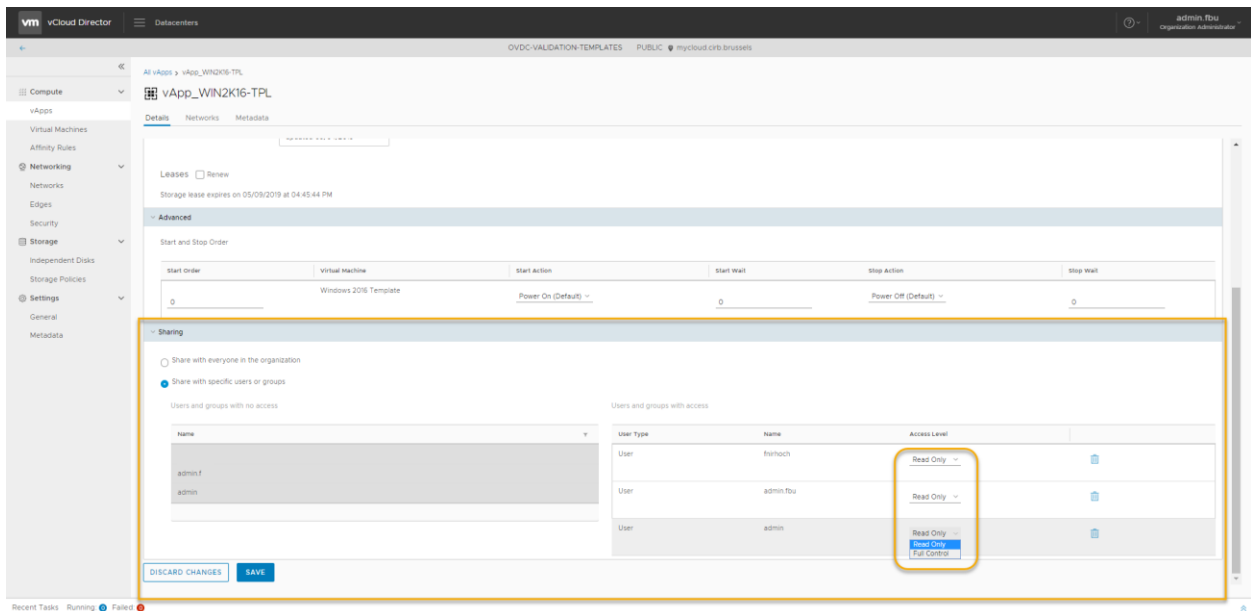


The screenshot shows the vCloud Director Administration interface. The left sidebar has 'Access Control' expanded to show 'Users' and 'Groups'. The 'Administration' menu item is highlighted. The main content area displays a table of users:

	Full Name	Enabled	Locked	Role	Type	All VMs / Quota	Running VMs / Quota
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	MyCloud Org Admin	Local	0 / Unlimited	0 / Unlimited
<input type="radio"/>	dozketen OZKETEN Deniz	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MyCloud Org Admin	LDAP	0 / Unlimited	0 / Unlimited
<input type="radio"/>	sjenart JENART Stéphane	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MyCloud Org Admin	LDAP	0 / Unlimited	0 / Unlimited

Below the table, there is a 'Recent Tasks' section with a message: 'We couldn't find any recent tasks'.

Please note that every user can manage his own vApps rights in the share section of each vApp
Go to Datacenter > vApps > choose your vApp and click on “Details”. At the bottom of the section you’ll find the “Sharing” Option



The screenshot shows the vCloud Director vApp details page for 'vApp_WIN2K16-TPL'. The 'Sharing' section is highlighted with a yellow box. It contains the following configuration:

- Share with everyone in the organization:
- Share with specific users or groups:

Users and groups with no access:

Name	User Type	name	Access Level
admin.f	User	farhooh	Read Only
admin	User	admin.fou	Read Only
	User	admin	Read Only

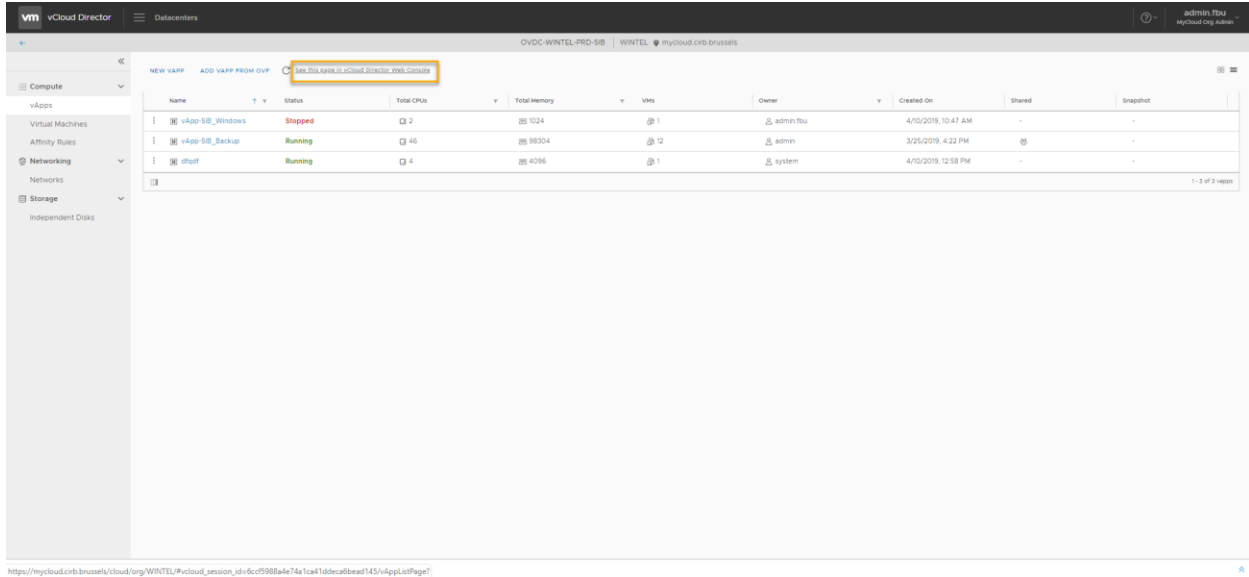
Users and groups with access:

User Type	name	Access Level
User	farhooh	Read Only
User	admin.fou	Read Only
User	admin	Read Only

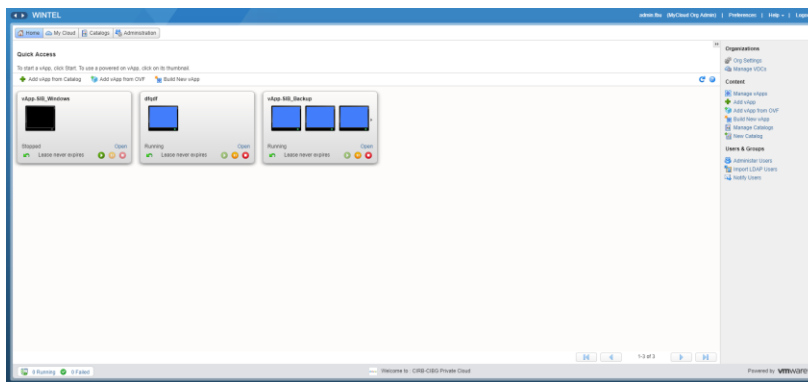
The 'Access Level' dropdown menu is open, showing options: Read Only, Read Only, Read Only, Read Only, Full Control.

Legacy Interface (FLEX)

The Official Legacy Flash Interface is still available



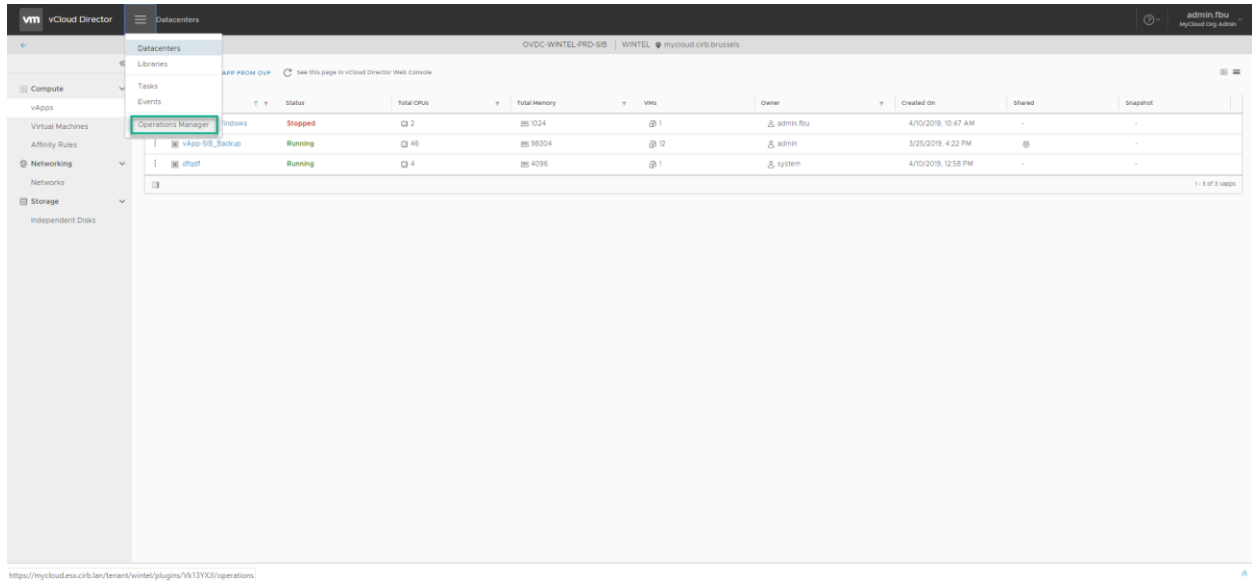
In case you cannot find your way on the new HTML5 portal, return to the old portal is possible at anytime.



This portal will be deprecated soon so don't hesitate to switch back to HTML5

Operation Manager for Monitoring and Reports

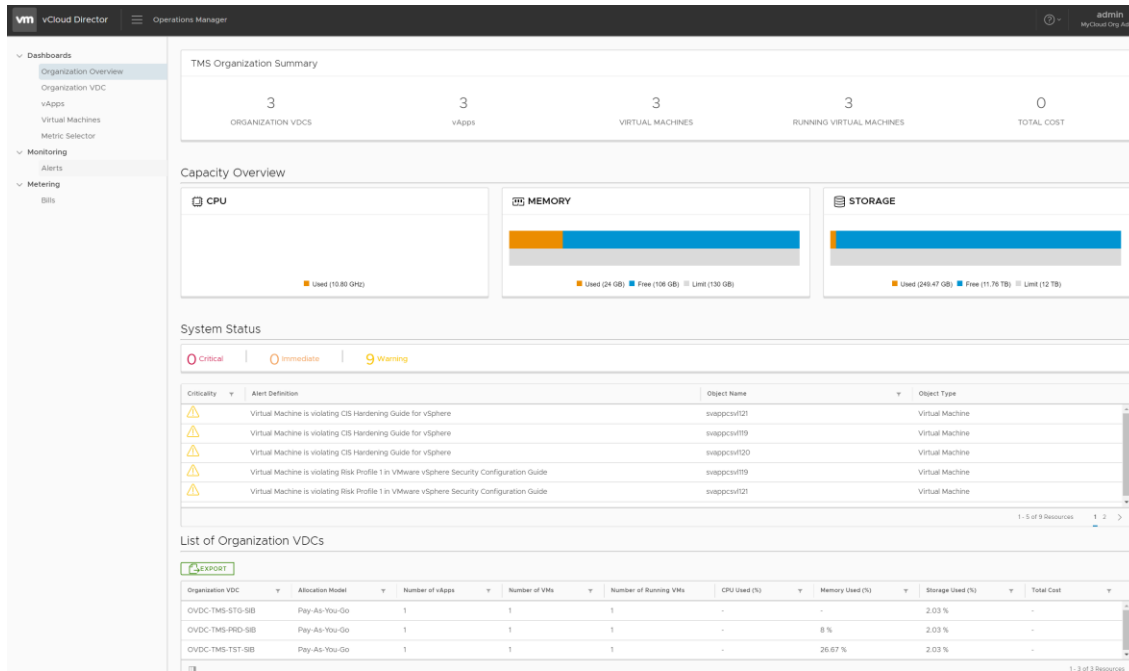
The next amazing feature is Operations Manager accessible from anywhere:



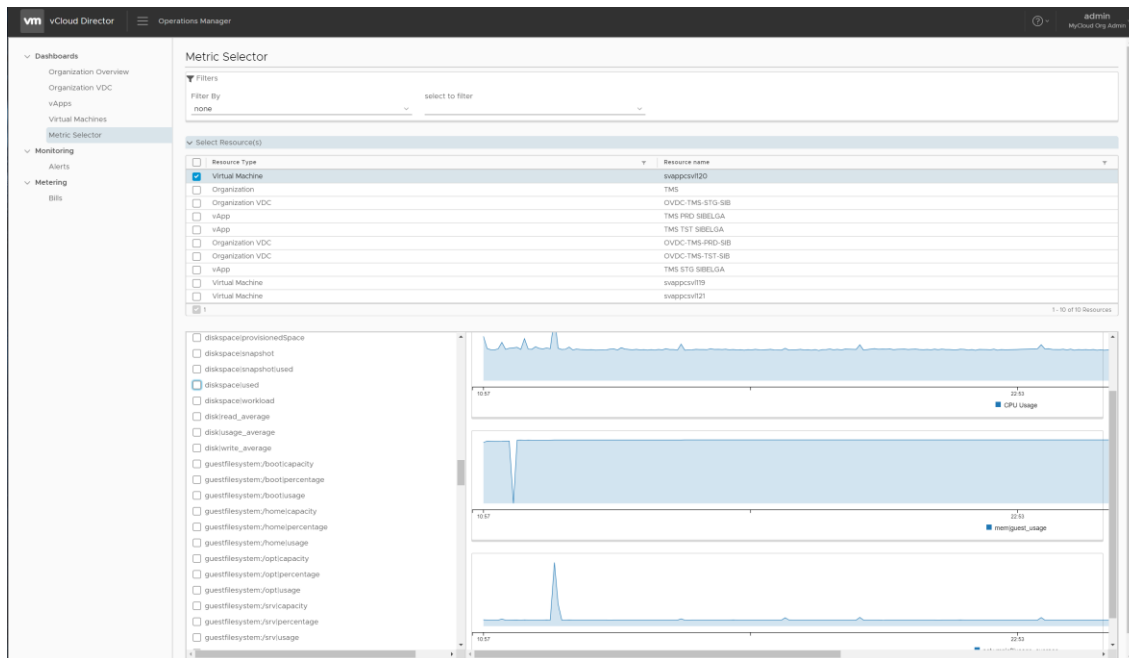
The screenshot shows the vCloud Director web console interface. The left sidebar contains navigation options: Compute, vApps, Virtual Machines, Affinity Rules, Networking, and Storage. The main content area displays the 'Operations Manager' view for a datacenter named 'OVDIC-WINTEL-PRD-SIB'. A table lists various operations with columns for status, total CPU, total memory, vms, owner, and created on. The 'Operations Manager' link in the sidebar is highlighted with a red box.

status	Total CPU	Total Memory	vms	Owner	Created On	Shared	Snapshot
Stopped	2	85 1024	1	admin.fbu	4/10/2019, 10:47 AM	-	-
Running	46	85 98304	12	admin	3/25/2019, 4:22 PM	-	-
Running	4	85 4796	1	system	4/10/2019, 12:58 PM	-	-

Quick Overlook in the Main Dashboard



Access to Metric Selector for every resource



Make some reports exports

List of Virtual Machines - 1559725144800.csv - LibreOffice Calc

File Edit View Insert Format Styles Sheet Data Tools Window Help

Liberation Sans 10 B I U T \$ % 00 00

ResourceId	vCloud Director	Organization	Organization VDC	vApp	Power Status	Virtual Machine	vCPU	Memory Allocation	Storage Allocated	Snapshot Size	Total Cost
284a2e0e-d352-4192-9f86-b55c30e84d29	mycloud.cirb.brussels	-	-	TMS STG SIBELGA		1svappcsv120	28 GB	75.16 GB	0 GB	-	
f2f1a194-610d-404c-a754-68e4a8a1bd8c	mycloud.cirb.brussels	-	-	TMS TST SIBELGA		1svappcsv119	28 GB	75.16 GB	0 GB	-	
f555aa10-a70f-404b-8b3c-d944c6dc3fc3	mycloud.cirb.brussels	-	-	TMS PRD SIBELGA		1svappcsv121	28 GB	75.16 GB	0 GB	-	

Coming soon:

- vApp Detail creation Process (addendum)....
- Official FAQ Portal...
- vNetwork Services...