vCloud Director (VCD) and DRaaS ZT

Quick Reference Guide



Contents

vCloud Portal

vCloud Portal	
Getting started	3
Quick Access	3
Adding vApps	4
Building a new vApp	4
Adding VM's	5
Configuring Resources	6
Configuring Virtual Machines	6
Configuring Network	7
My Cloud	8
vApps	8
vApp Actions	8
Changing vApp Properties	9
Virtual Machines	
VM Actions	
Adding/Removing CPU/Memory/Disk from VMs	
Tracking log files	
Catalogs	
VDC Administration	
Managing Virtual Data Centers	
Adding users to VDC Admin	14
Virtual Data Center Settings and Personalization	
DRaaS ZT Portal	15
Testing Failover	
Stopping the Test Failover	
Real Failover	
Editing a VPG	21



vCloud Portal

Getting started

The vCloud Portal orchestrates the provisioning of software-defined datacenter services to deliver complete virtual datacenters for easy consumption in minutes. Virtual datacenters provide virtualized compute, networking, storage, and security so that administrators can provision the complete set of services necessary to make workloads operational in minutes without worrying about the physical configuration of hardware.

1. Login to the portal using your credentials

User name: Password:	EVOLVE THE CLOUD SERVICES COMPANY" VCLOUD PORTAL
Login	

Quick Access

Upon logging in to your vCloud Portal the first page displayed will be your Quick Access page. Here you can see your vApps and VMs within them. You can quickly login to any of your VM's or preform basic configurations. You can also access our support knowledgebase and help at any time by selecting help in the top right pane.

morgan (Organization Administra	itor) Preferences	Help 👻	Logout		
				organ (organization Administrator)	
🚹 Home 🛆 My Cloud 🗐 Catalogs 🖓 Adm	inistration				
bet up this organization				•)	Organizations
Quick Access To start a vApp, click Start. To use a powered on vAp	p, click on its thumbnail.				 Org Settings Manage VDCs
💠 Add vApp from Catalog 🛛 🎁 Add vApp from 0	VF 🏾 🍢 Build New vApp			C 🕲	Content
DTvApp_ichurch_1	RS_demo01	Open	vApp_Replication		Hanage vApps Add vApp Add vApp from OVF Build New vApp Manage Catalogs New Catalog
Running Open Lease never expires O O O	S Cannot update		Running Cease never expires	Open	Users & Groups Administer Users Notify Users



Adding vApps

You can choose to build your vServers from custom built templates, built-in templates, or by creating your own from the Quick Access page by choosing from "add vApp from Catalog", "add vApp from OVF", or "Build New vApp" from the panel over your vApps or from the content section on the right hand side of your screen.

To start a vApp, click Start. To use a powered on vApp, click on its thumbnail.

🔶 Ad	d vApp from Catalog	狗 Add vApp from OVF	🏪 Build New vApp
୯ 🌚	Content		
	🔀 Manage vApps		
	🕈 Add vApp		
	😚 Add vApp from C	VF	
	🐮 Build New vApp		
	🔋 Manage Catalog	IS	
	1 New Catalog		
	Users & Groups		
	<u>.</u>		

Building a new vApp

Clicking on the Build New vApp button will bring you to the configuration window. You can name and describe you new vApp and chose which VDC it will reside in. You can also set leasing so stops and storage cleanup can be automatic.

New vApp			
Select Name and Location Add Virtual Machines	Select Name and L A vApp is a cloud co lease settings.		ne or more virtual machines. Describe this vApp and (
Configure Resources	Name:	vApp_morgan_2	*
Configure Virtual Machines	Description:		
Configure Networking			
Ready to Complete	Virtual Datacenter		
	Select the Virtual D	atacenter (VDC) in which this w	App is stored and runs when it is started.
	EIP-DEMO	Ŧ	
	Leases		
		Never Expires Hours How long this vApp can run before	• it is automatically stopped.
	Storage lease:	Never Expires	g it is available before being automatically cleaned up.



Adding VM's

Select next to add your VM's. You can chose to add from your public or private catalogs by highlighting one and selecting the add button. You will notice it will drop down into the next table – do this for as many VM's as needed in this vApp.

Select Name and Location	Add Virtual Machines					
	You can search the catalog for vir new VM and install an operating s		add to this vApp o	r add a new, blank VI	I. Once the vApp is created	l, you can power on the
Add Virtual Machines	new vm and install an operating s	system.				
Configure Resources	Look in: 🚯 Public Catalogs	-		All	•	C
Configure Virtual Machines	Name 1 🛦 OS	Gold Master	vApp	Catalog	Created On	Disk Info
Configure Networking	RHEL6.x86_64-\ Red Hat Enti	-	RHEL6.x86_64	Public_BYOL_LV	01/15/2015 3:35 PM	25.00 GB
Ready to Complete	Windows2008R2 Microsoft Wii	0	Windows2008F	Public_BYOL_LV	03/17/2015 12:17 PM	25.00 GB
	Windows2008R2 Microsoft Wii	0	Windows2008F	EvolveIP_BYOL	04/03/2015 11:15 AM	25.00 GB "
	Windows2012R2 Microsoft Wii	\odot	Windows2012F	EvolveIP_BYOL	04/03/2015 11:14 AM	25.00 GB
	Add - Remove				1-5 of 6	
	Name OS	Gold Master	vApp	Catalog	Created On	Disk Info
	Windows2008R2 Microsoft Wir	0	Windows2008	Public_BYOL_LV	03/17/2015 12:17 PM	25.00 GB
	🔶 New Virtual Machine					
					Back Next	Finish Cancel

You can also chose to create a new virtual machine by selecting the +New Virtual Machine button bottom left. A window will appear where you can name and configure hardware, OS, CPU, memory, and NIC's for your new virtual machine. Plug in your requirements and click ok. You should see your new VM populate in the bottom table, you can then click next.

VCD and Zerto Quick Reference Guide



Virtual Machine name:	2
A label for this VM that appears in VCD lists. Computer name: The computer name / host name set in the guest OS of this VM that identifies it on a network. This field is restricted to 15 characters for Windows. For non-Windows systems it car 63 characters long and contain dots. Description: Virtual hardware version: Hardware Version 10 Virtual hardware version: Hardware Version 10 Virtual hardware version: Microsoft Windows Server Threshold (64-bit) Virtual CPUs: 1 Cores per socket: 1 Expose hardware-assisted CPU virtualization to guest OS	
Computer name: The computer name / host name set in the guest OS of this VM that identifies it on a network. This field is restricted to 15 characters for Windows. For non-Windows systems it car 63 characters long and contain dots. Description: Image: Computer name / host name set in the guest OS of this VM that identifies it on a network. This field is restricted to 15 characters for Windows. For non-Windows systems it car 63 characters long and contain dots. Description: Image: Computer name / host name set in the guest OS of this VM that identifies it on a network. This field is restricted to 15 characters for Windows. For non-Windows systems it car 63 characters long and contain dots. Description: Image: Computer name / host name set in the guest OS of this VM that identifies it on a network. This field is restricted to 15 characters for Windows. For non-Windows systems it car 63 characters long and contain dots. Operating System Family: Image: Computer name / host name set in the guest OS of this VM that identifies it on a network. Number of virtual CPUs: Image: Computer name / host name set in the guest OS Number of sockets: 1 Image: Expose hardware-assisted CPU virtualization to guest OS	
The computer name / host name set in the guest OS of this VM that identifies it on a network. This field is restricted to 15 characters for Windows. For non-Windows systems it car 63 characters long and contain dots. Description: Virtual hardware version: Hardware Version 10 Operating System Family: Image: Microsoft Windows Server Threshold (64-bit) Number of virtual CPUs: 1 Cores per socket: 1 Expose hardware-assisted CPU virtualization to guest OS	
network. This field is restricted to 15 characters for Windows. For non-Windows systems it car 63 characters long and contain dots. Description: Virtual hardware version: Hardware Version 10 Operating System Family: Image: Microsoft Windows Operating System: Microsoft Windows Server Threshold (64-bit) Number of virtual CPUs: 1 Cores per socket: 1 Expose hardware-assisted CPU virtualization to guest OS	
This field is restricted to 15 characters for Windows. For non-Windows systems it car 63 characters long and contain dots. Description: Virtual hardware version: Hardware Version 10 Operating System Family: Image: Second Windows Server Threshold (64-bit) Number of virtual CPUs: 1 Cores per socket: 1 Expose hardware-assisted CPU virtualization to guest OS	
Virtual hardware version: Hardware Version 10 Operating System Family: Operating System: Microsoft Windows Operating System: Microsoft Windows Server Threshold (64-bit) Number of virtual CPUs: 1 Cores per socket: 1 December of sockets: 1 Expose hardware-assisted CPU virtualization to guest OS	ı be
Operating System Family: Microsoft Windows	
Operating System Family: Microsoft Windows	
Operating System Family: Microsoft Windows	
Operating System: Microsoft Windows Server Threshold (64-bit) Number of virtual CPUs: 1 Cores per socket: 1 Number of sockets: 1 Expose hardware-assisted CPU virtualization to guest OS	
Number of virtual CPUs: 1 Cores per socket: 1 Number of sockets: 1 Expose hardware-assisted CPU virtualization to guest OS	
Cores per socket: 1 Number of sockets: 1 Expose hardware-assisted CPU virtualization to guest OS	
Cores per socket: 1 Number of sockets: 1 Expose hardware-assisted CPU virtualization to guest OS	
Number of sockets: 1 Expose hardware-assisted CPU virtualization to guest OS	
Expose hardware-assisted CPU virtualization to guest OS	
Memory: 4 GB V	
Hard disk size:	

Configuring Resources

The next window will allow to you configure your storage policies from the dropdown menu per virtual machine



Configuring Virtual Machines

Click next and name each of your VM's and set your primary NIC, network and IP settings. Note: It is recommended to choose static IP, it will ensure that when you exit your VM that it won't "reset" and when you log back in it will have the same appearance (apps and windows open) as when you left.



Select Name and Location Add Virtual Machines Configure Resources Configure Virtual Machines	machines after you co	chine and select the net mplete this wizard. hter type iffect both networking perf	ormance and migra		n configure additional properties for virtual /Mware KnowledgeBase for more information on
Configure Networking	Virtual Machine	Computer Name	Primary NIC	Network	IP Assignment
Ready to Complete	🗗 Windows	Windows2008-0 *	• NIC 0	L VM_NET_Demo	Static - IP Pool 🔹

Configuring Network

Click next and you will see the network configuration tab. Here you will configure how your vApps connect to your organizations VDC network.

пол тарр							9 9
Select Name and Location Add Virtual Machines	Configure Networki Specify how this vAp	2	es, and its vApp netv	vorks connect to the	organization VDC ne	tworks that are acce	essed in this vApp.
Configure Resources	Fence vApp Fencing allows ide	ntical virtual machines	in different vApps to b	e powered on without	conflict by isolating the	MAC and	
Configure Virtual Machines	IP addresses of th	e virtual machines. ted for this vApp doe:	e not have network r	ecources to support	fencing		
Configure Networking			S not nave network i	esources to support	nencing.		
	Name	Туре	Gateway Address	Network Mask	Connection	DHCP	Retain IP/ MAC
Ready to Complete	🔔 VM_NET_Dem	Organization VDC	10.200.2.200	255.255.255.0	Direct	-	

Clicking next will take you to the ready to complete page where you can review your vApp configurations

Select Name and Location Add Virtual Machines	Ready to Complete You are about to create a vA Name:	pp with these specifications. Review th	e settings and click Finish.	
Configure Resources	Description:	wwp_morgan_o		
Configure Virtual Machines				
Configure Networking	Owner:	morgan		
Ready to Complete	Virtual datacenter:	EIP-DEMO		
	Runtime lease:	Never Expires		
	Runtime lease expiration:	Never		
	Storage lease:	Never Expires		
	Storage lease expiration:	Never		
	Networks - 1:	VM_NET_Demo		
	VMs - 1:	Virtual Machine	Guest OS	Storage Policy
		Windows2008R2.Standard.BYOL.T	Microsoft Windows Server 2008 R2	VNX6-Demo-01-LV
			Back	Next Finish

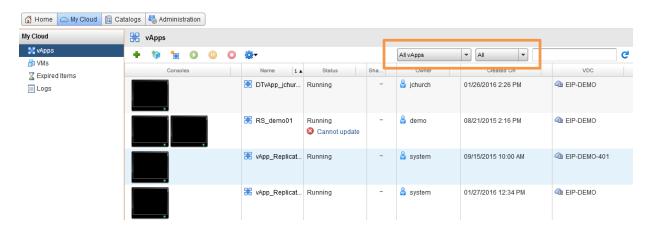


Click finish and you will see you vApp and virtual machines provisioning on the Quick Access main page. After this is completed you can access your VMs by directly clicking on them.

My Cloud

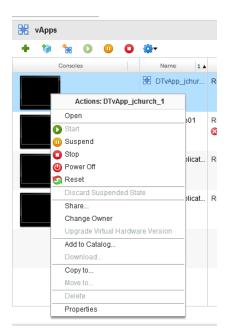
vApps

Clicking on the My Cloud tab will bring to you a page where you can access your vApps, VM's, Expired Items, and Logs. Here you will be able to view your information in different tabs and sort machines from the drop down menu to easily find and access them quickly. You can also perform the same functionality as you can on the Quick Access page by starting, stopping, pausing, creating new vApps and going to the properties page to change configurations.



vApp Actions

By right clicking on a vApp it will bring a drop down menu where you can change the power setting, share your vApp, change the owner, copy, add to a catalog, and manage the properties.





Changing vApp Properties

By right clicking on your vApp and clicking on properties at the bottom, a window will pop up where you can change and configure settings. The general tab you can change the name and description and change leasing

Name:	DTvApp_jchurch_1 *
Description:	Windows 2012 R2 Standard - Bring Your Own Licensing 1 CPU, 2GB RAM, 25GB C Drive
/irtual datacenter .eases	: EIP-DEMO
Reset leases	
Runtime lease:	Never Expires Ver Hours Ver Expires on: Never
	How long this vApp can run before it is automatically stopped.

From the starting a stopping VM's tab you can set automatic order in which you want your VM's to start and stop in your vApp when it is powered on and off. When you start this vApp, Virtual Machines are started in the specified order. When you stop this vApp Virtual Machines are stopped in the reverse order. For each virtual machine you can specify a waiting time before the next one is started or stopped.

General Starti	ing and Stopping V	Ms Sharing Guest Prop	erties Metadata		
Virtual Machi	Order	Start Action	Start Wait (seconds)	Stop Action	Stop Wait (se
🖆 Windows201	0	Power On (default)	0	Power Off (🔍 🔻	0

VCD and Zerto Quick Reference Guide



You can add members in the sharing tab to allow others to access your vApps and VM's

General	Starting and Stopping VMs	Sharing	Guest Properties	Metadata	l .
With whi	ch members of your organization	do you wan	t to share this vApp?		
Add	Members				
	Name		Access Le	vel	

You can also add metadata from the properties window

General	Starting and Stopping VMs	Sharing	Guest Properties	Metadata
Type: Name:	Text 💌	*		Add Delete Reset

Value:

Enter a text value. A text value is searchable from the API if it does not exceed 1000 characters (0 characters entered).

Existing metadata:

Name	Value	Туре	User access
vapp.origin.id	c1b2e0c4-1ed0-4c29-ab1f-b684	Text	Read only
	115-3	T	

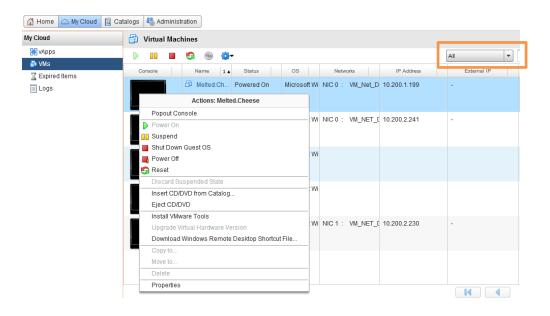


Virtual Machines

Here you will be able to view your information in different tabs and sort machines from the drop down menu to easily find and access them quickly. You can also perform the same functionality as you can on the Quick Access page by starting, stopping, pausing, creating new vApps and going to the properties page to change configurations.

VM Actions

Right clicking on a VM will allow you to choose power functions, insert CD/DVDs from a catalog, Eject, install VMware tools (which are necessary for proper functionality), upgrade hardware, download remote desktop, copy, move, and your VM properties page.



Adding/Removing CPU/Memory/Disk from VMs

By right clicking your VM and clicking on properties will allow you to change your hardware requirements per VM. You can also change your naming and description per VM, configure Guest OS and properties and allocate resources



	Melted.Cheese					3
General Hardware	Guest OS Customization	Guest Properties	Resource Allocation	Metadata		
Jumber of virtual CPUs:	1 -					
Cores per socket:	1 -					
lumber of sockets:	1					
	sisted CPU virtualization to gue port virtualization servers or 64-bi		virtual machine.			
otal memory: 2	▼ GB ▼					
ara 515h5						
▲ Some hard drive pro	perties cannot be modified while the	he virtual machine is p	powered on.			
Name	perties cannot be modified while the Size	he virtual machine is p	bowered on. Bus Type	Bus Number	Unit Number	
	Size			Bus Number 0	Unit Number 0	Delete
Name	Size		Bus Type			Delete
Name Disk 0	Size	LSI Logi	Bus Type			
Name Disk 0 IICs G Guest customization Show network adapte Adapter choice can aff	Size	LSI Logi	Bus Type	0	0	Add
Name Disk 0 IICs G Guest customization Show network adapte Adapter choice can aff	Size 50 • GB • Is required to run for the NIC char r type ect both networking performance a	LSI Logi	Bus Type	0	0	Add
Name Disk 0 IICs G Guest customization Show network adapte Adapter choice can aff	Size 50 • GB • Is required to run for the NIC char r type ect both networking performance a	LSI Logi	Bus Type	0	0	Add

Tracking log files

From the My Cloud tab you can access your logs of tasks and events within your VDC.

🛗 Home 🛆 My Cloud	🔢 Catalogs 🛛 🍇 Admi	nistration					
ly Cloud	📕 Logs						
器 vApps	Tasks Eve	nts					
🖆 VMs							
Z Expired Items	⊘ +					All	•
📕 Logs	Task	Status	Service Namespace	Туре	Owner	Started At 1 🔻	Completed At
	🔄 Acquired	0	com.vmware.vcloud	Virtual Machine	占 jchurch	01/28/2016 8:05 PM	01/28/2016 8:05 PM
	🔄 Updated	0	com.vmware.vcloud	Virtual Machine	占 jchurch	01/28/2016 8:04 PM	01/28/2016 8:04 PM
	🔄 Updated	۲	com.vmware.vcloud	Virtual Machine	占 jchurch	01/28/2016 8:01 PM	01/28/2016 8:01 PM
	🔄 Acquired	0	com.vmware.vcloud	Virtual Machine	👗 jchurch	01/28/2016 7:06 PM	01/28/2016 7:06 PM
	🔄 Updated	0	com.vmware.vcloud	Virtual Machine	👗 jchurch	01/28/2016 7:06 PM	01/28/2016 7:06 PM
	💹 Acquired	0	com.vmware.vcloud	Virtual Machine	着 jchurch	01/28/2016 7:05 PM	01/28/2016 7:05 PM
	🔄 Updated	0	com.vmware.vcloud	Virtual Machine	🖁 jchurch	01/28/2016 7:05 PM	01/28/2016 7:05 PM
	🔄 Updated	0	com.vmware.vcloud	Virtual Machine	👗 jchurch	01/28/2016 7:04 PM	01/28/2016 7:04 PM
	🔄 Acquired	0	com.vmware.vcloud	Virtual Machine	👗 jchurch	01/28/2016 7:03 PM	01/28/2016 7:03 PM
	🔄 Acquired	0	com.vmware.vcloud	Virtual Machine	占 jchurch	01/28/2016 4:25 PM	01/28/2016 4:25 PM
	🔄 Acquired	0	com.vmware.vcloud	Virtual Machine	着 jchurch	01/28/2016 4:20 PM	01/28/2016 4:20 PM
	🚈 Acquired	0	com.vmware.vcloud	Virtual Machine	着 jchurch	01/28/2016 4:02 PM	01/28/2016 4:02 PM
	🔄 Running	0	com.vmware.vcloud	Virtual Applicatio	占 jchurch	01/28/2016 3:58 PM	01/28/2016 4:00 PM
	Running	0	com.vmware.vcloud	Virtual Applicatio	a ichurch	01/28/2016 3:58 PM	01/28/2016 4:00 PM

Catalogs

Under The catalogs tab you will see "my organization catalogs" and "public catalogs". You can add catalogs, templates and media here. You can make different catalogs to organize your templates and chose who can view them.

You can view from the drop down tab that's labeled all "catalogs" or sort through which are yours and shared as well.

DRaaS Compute					morgan (Organization Administra	tor) Preferences	i Help + Logo		
🕼 Home 🖾 My Cloud 🗎 Ca	talogs 🍇 Administration								
Catalogs	Public Catalogs	B Public Catalogs							
🔝 My Organization's Catalogs	Catalogs vApp Templat	tes Media	& Other						
Public Catalogs	₩ -	•			All Catalogs 🔹 🖌				
	Name 1 🛦	Version	Exter	Organization	Created On	vApp Templat	Media & Other		
	B EvolveIP_BYOL	74	-	EvolveIP_Resource	07/11/2014 4:02 PM	3	0		
	🚯 IMMS_Ubuntu	7	B	EvolveIP_Resource	04/28/2015 9:17 AM	🔊 o	<u></u> 1		
	B Public_BYOL_LV	34	-	EvolveIP_Resource	10/21/2014 3:01 PM	3	<u></u> 1		

VDC Administration

Managing Virtual Data Centers

Under the administration tab you can manage and monitor your virtual data centers. By viewing your processor, memory and storage usage you can account for allocating or removing resources as needed.

Administration	Virtual Datacenters					
 Cloud Resources 	*		Manage Monitor		All	C 3
irtual Datacenters	Name	1 🔺	Status	Enabl	Allocation Model	vApps III
✓ Members	C EIP-DEMO		0	~	Allocation Pool	86 3
🛔 Lost & Found	EIP-DEMO-401		0	~	Allocation Pool	88 3
 Settings [™] General [™] Email [™] Policies [™] Guest Personalization [™] Federation [™] Federation [™] Metadata [™] 						

🚹 Home 🖾 My Cloud 🗎 Catalogs 🖏 Administration									
Administration	🔒 Virtual Datacente	rs							
 Cloud Resources Wirtual Datacenters 	0 -	Man	age Monitor		All	C 🛛			
Members	Name 1 🔺	Processor	Memory	Storage	Allocation Model	[
🖁 Users	EIP-DEMO	6.00 GHz	35.00 GB	20,550.39 GB	Allocation Pool				
Lost & Found ▼ Settings	C EIP-DEMO-401	6.00 GHz	35.00 GB	300.00 GB	Allocation Pool				
💣 General 鑙 Email									
Policies									

Adding users to VDC Admin

You can add users to your virtual data center administration under the administration tab yut clicking the users tab and the + symbol. Here you can also set up notifications for your admin users.

✓ Members	User Name 1 🔺	Full Name	Enabl	Look	Role	Type	All VMs/Quota	Running VMs/Quota
Users	着 demo	Demo User	~		/ Organization Adr	Local	2 / unlimited	2 / unlimited
🔓 Lost & Found	着 jchurch	Jason Church	~		🔏 Organization Adr	Local	3 / unlimited	3 / unlimited
✓ Settings	着 morgan	Morgan Emlet	×		🔏 Organization Adr	Local	0 / unlimited	0 / unlimited
💣 General	着 rslough	Ray	× .		🚝 Organization Adr	Local	0 / unlimited	0 / unlimited
Per all	👗 zerto		×		a Organization Adr	Local	0 / unlimited	0 / unlimited
Policies Guest Personalization								

Virtual Data Center Settings and Personalization

- In this settings window you can: -SMTP Server settings -Leasing and quota requirements -Add domains
- -Manage metadata

➡ Settings	vApp leases:
i General	Maximum runtime lease: Never Expires 🔻 Hours 💌 *
🍘 Email	How long vApps can run before they are automatically stopped.
CP Policies	Maximum storage lease: Never Expires v Hours v * How long stopped vApps are available before being automatically cleaned up. Storage cleanup: Move to Expired items v vApp template lease: Maximum storage lease: So v Days v * How long vApp templates are available before being automatically cleaned up.
	Storage cleanup: Move to Expired Items 👻
	Default Quotas These values suggest the default quotas for how many VMs a User can store and power on in this organization. They can be changed by an organization administrator. All VMs quota: 1 1 0 Unlimited Running VMs quota: 1 1 0 Unlimited
	Apply

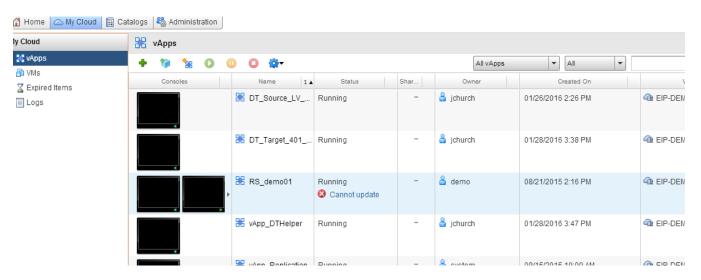


DRaaS ZT Portal

Testing Failover

Before testing, please login to both the vCloud portal and DRaaS ZT Portal.

In the vCloud portal navigate to the vApps tab under my cloud



NOTE: You can login to Zerto via RDC if inside of your own network or from the web portal using your credentials

Zertø	Zerto Service Po	rtal
ZORG		
User Name ?		
Password		
	Remember me	LOGIN

In testing, the servers can be brought up in an isolated network. If the IP mode is set to "none", no ip address is assigned. You can configure the IP address by editing the VPG in advance before the failover test.



In the DRaaS ZT interface, click the failover arrow: MAKE SURE IT IS SET TO TEST. In "Test" mode, production servers remain fully operational and online. In "LIVE" mode, production servers are automatically powered down as part of the failover. THIS WILL CAUSE A SERVICE INTERUPTION and should be used with caution. **Also, be mindful of network/IP configuration especially for IP routing, name resolution and AD registration.**



Select the VPG's you want to test

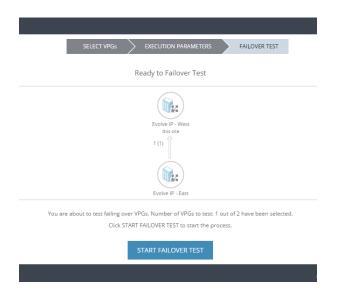
Failover Test			@ X
	SELECT VPGs EXECUTION PARAMETER	IS FAILOVER TEST	
Search Q Select or search a gro.	Select VPGs to failover test.		
		Protection Status	State
Product Lab (1)	🗁 🕼 Customer1-Prem	Meeting SLA	
DemoReplication (1)	🗁 📲 Evolve IP - East	Meeting SLA	
Selection details : VPGs - 1, VMs - 1, Storage - 50.1 GB.			
			CANCEL PREVIOUS NEXT

Click "next" You are given the option of which checkpoint to use. Normally you would use the most current one; however, there could be a scenario where you need to bring up your environment from a previous point in time, for example human error or virus/malware infection.

	Select execution parameters for each VPG.								
	VPG Name (# VMs)	Direction	Peer Site	Checkpoint	Boot Order	Scripts			
0	DemoReplication (1)	<	Evolve IP - East	04/02/2016 16:06:33	-	-			

Click "next" You should be presented with the box below. Be sure to confirm that it says "TEST" and then click the failover arrow





You should see the task show up in the Zerto interface.



Now switch over to the vCloud Director portal. You will need to click the refresh icon *c* for the new servers to show up. The new group will display as a new vApp as shown below

X vApp_Replication - testin	Stopped	-	🖁 system	02/04/2016 4:17 PM	C EIP-DEMO

Even though vCloud may look like it's done, go back to Zerto and watch the task progress. Depending on the size and number of servers being tested, it can take up to ten minutes.



At this point you are done with the DRaaS ZT interface until we fail back. It has brought the servers up in vCloud, so now we switch over to vCloud. It should look like below:

🔀 vApp_Replication - testin	Stopped	-	🖁 system	02/04/2016 4:24 PM	C EIP-DEMO

From vCloud, click on the VMs button on the left to get a listing of the servers. Please be sure to only look at the servers you failed over since multiple servers might show up on this page.

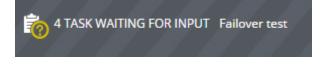
*				
	Melted.Cheese - testing recovery	Powered On	Microsoft Windows S	NIC 0 : -
*				



Here you can login to your servers and make sure all data is recovered and test applications.

Stopping the Test Failover

Click on the orange "task waiting for input" text (it would normally say 1 task unless you have multiple tasks running)



Click on the tasks waiting and a window will appear, you should see details on the task.

TASKS		@ ×
7 Failover tes	t DemoReplication - Waiting for user input	-

Click the square to initiate the test cleanup. The stop test window should pop up and select "stop"

Stop Test		⊛×
Specify the test result and optionally add	test notes.	
Result	Success	~
Notes	Stop Test for VPG DemoReplication	
	CANCEL STO	P

Confirm a new task shows up indicating the test is stopping

Chanada - Catlevia	
0% Stopping Failover DemoReplication test	

Check in vCloud. The servers should be powering off

Pending	VApp_Replication - testin	👽 Deleting	-	🔓 system	02/04/2016 4:24 PM	IP-DEMO



Refresh the vCloud window and you should see the servers start to be removed from inventory. Again, this could take several minutes.

Once complete, Zerto should confirm a successful test with a green check mark.



Real Failover

Set the toggle button to LIVE and select failover arrow. Note a real failover will power down production servers in the respective VPG.



A pop up window will appear with all of your VPGs, select the VPGS you want to failover and click next

SELECT VPGs EXECUTION PARAMETERS FAILOVER	
Select VPGs to failover.	
Search Select or search a gro 💙	
□ △ VPG Name (# VMs) Direction Peer Site Protection Status	State

Next select your execution parameters.

Here you can change your checkpoint to bring your VPG up from a previous point in time. Often times this is the most recent, but in some scenarios a previous point in time may be needed, such as virus infection. Finally, select your commit policy. Here you have three options:

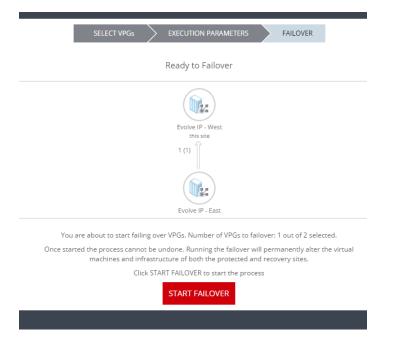
NOTE: Commit finalizes the Failover process and Rollback makes everything go back to its default Source-to-DR replication without ever finishing the failover.

You can also select **NONE**. By selecting this you will manually have to failback your servers.



SELECT VPGs EXECUTION PARAMETERS FAILOVER											
Select execution parameters for each VPG. REVERSE PROTECT ALL EDIT SELECTED											
irection	Peer Site	Checkpoint	Commit P	VM Sh	Reverse Protection	Boot Order	Scripts				
\Leftrightarrow	Evolve IP - East	03/02/2016 14:21:58	Auto-Commit	No	-	-	-				

Click next and then "START FAILOVER" button



You will then see at the bottom of your screen 1 running tasks



Switching over to your vCloud Director portal you will see both your vApp and your VM's populating. Here after they come up you can login and test (bring your applications up, test connectivity, etc.)

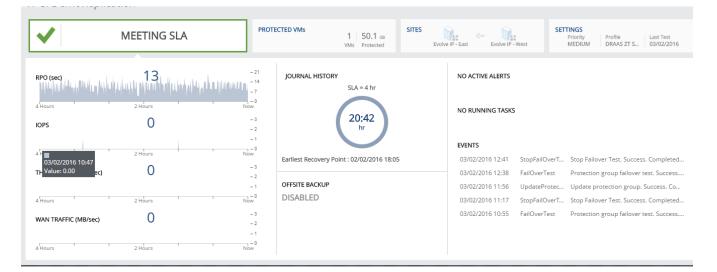
Pending	🗄 Melted.Cheese	🐝 Busy	NIC 0 : -	-	- Replication(1)
Busy	VApp_Replication(1)	Busy	- 🔓 system	02/01/2016 3:	:28 PM @ EIP-DEMO



Here I set the policy to auto-rollback after ten miniutes: that means all changes I made (if any) will not be commites and my VPG will failback to the original checkpoint I selected. You will then see your VPG return to normal state within Zerto.

Editing a VPG

In the VPG tab within Zerto you can click on a VPG and review the stats, history, alerts, tasks and events. You can also change the configuration and some settings within your VPG



Click in the upper right hand corner where it says "edit VPG"



A pop up window will come up. At the top you can select what you want to configure from your VM's to your storage policy within each VM. Clicking the summary tab will show you all of your configurations within one window.

Edit Rev	verse VPG												
	NEW VPG	WMs)#	STORAGE	*	RECOVERY	\geq	/ NICs	\geq	/ BACKUP	\geq	SUMMARY
			Specify	y a un	nique name fo	r the V	PG and the pri	ority.					
			VPG Name		vApp_Repli	cation							
			Priority		••• Med	ium				~			