Virtuozzo

Virtuozzo Hybrid Infrastructure 5.1

Hystax Acura Migration Guide From VMware

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Table of contents

Overview	3
Migration steps	4
VMware resource planning and configuration	4
Deploying HVRAgent on VMware ESXi Hypervisor	9
Providing access to the Hystax Acura portal	24
Troubleshooting	28
Limitations	29

Overview

Hystax is a cloud migration and Disaster Recovery company focusing on consistent replication of IT workloads and providing real-time migration and Best-In-Class Disaster Recovery.

This guide aims to explain how to migrate modern workloads from VMware to Virtuozzo Hybrid Infrastructure by using Hystax Acura migration solution.

To deploy the Hystax Acura solution, refer to the Integration Guide for Hystax Acura.

Migration steps

The migration process will be divided in to three sections:

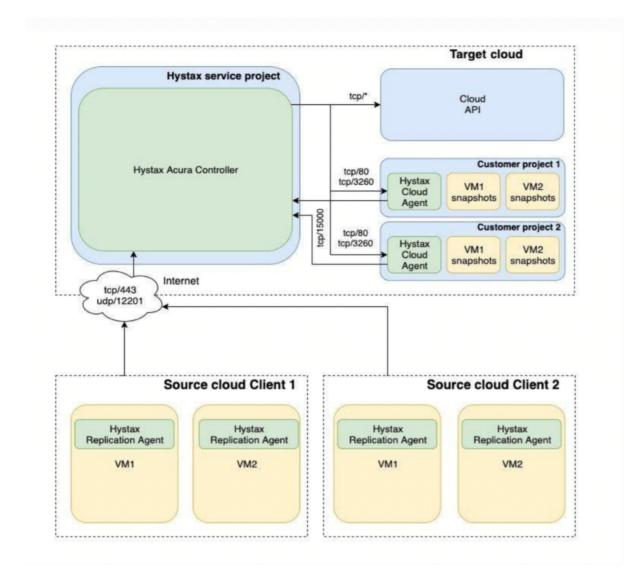
- 1. Ensure that Virtuozzo Hybrid Infrastructure is ready. Refer to the Integration Guide for Hystax Acura and check the following sections:
 - Virtuozzo Hybrid Infrastructure resource planning and configuration
 - Deploying the Hystax Acura solution in Virtuozzo Hybrid Infrastructure
- 2. VMware resource planning and configuration.
- 3. Deploying HVRAgent on VMware ESXi Hypervisor.
- 4. Performing a test migration.

VMware resource planning and configuration	4
Deploying HVRAgent on VMware ESXi Hypervisor	9

VMware resource planning and configuration

In this guide, we will perform a migration from VMware to Virtuozzo Hybrid Infrastructure. Before starting the migration, we need to ensure that certain resources are available on the VMware platform, such as a user with specific permissions and Hystax Replication Agent for VMware (HVRAgent) deployed on each ESXi Hypervisor. Replication agents are used to replicate the workloads between VMware ESXi Hypervisors (source platform) and Virtuozzo Hybrid Infrastructure (target platform/target project). In this guide, we will be referring to the VMware platform as the source platform and to Virtuozzo Hybrid Infrastructure as the target project or platform.

Architecture overview of the Hystax Acura migration solution



For the agent to work correctly, the following ports are needed:

- TCP 443 for vSphere host
- TCP/UDP 902 for ESXi host(s)
- UDP 12201 for sending logs to the Hystax Acura cluster

HVRAgent requires the following user permissions in vSphere (the role **VMware Consolidated Backup user** in vCenter):

- Virtual machine Change Configuration Acquire disk lease
- Virtual machine Provisioning Allow read-only disk access
- Virtual machine Provisioning Allow virtual machine files upload
- Virtual machine Snapshot management Create snapshot
- Virtual machine Snapshot management Remove snapshot

The permission to access CBT is necessary for the correct performance of the application. To enable CBT:

• Virtual machine – Change Configuration – Toggle disk change tracking

Additionally, it is recommended to include the following global permissions:

- Global Disable methods
- Global Enable methods
- Global Licenses

Note

In case of using vCloud, a vCenter user requires one extra permission to operate: Profile-driven storage > Profile-driven storage view.

HVRAgent uses VMware snapshots and the VMware CBT API to create consistent replicas of machines' data. This implies the following considerations regarding VMware storage:

- VMware snapshots consume storage to retain copy-on-write buffer, so it is recommended to have at least 10% of free space available in VMware storage.
- VMware puts additional load on storage while creating snapshots or running machines with existing snapshots.

Also, note that storage performance warning thresholds need to be adjusted in order to meet this increased load during replication.

Important

The source machine must have VMware Tools installed manually prior to any replication procedures, so that its network information is correctly displayed in the target VMware ESXi.

1. Log in to vCenter.

VMwar	e [®] vSphere
virtuozzo@don	nain.local
Use Window	s session authentication
	LOGIN

Create a user. In this example, we will create the user hystax-user. On your VMware vCenter client, go to Administration > Single Sign On > Users and Groups, select your domain in the Domaindrop-down menu, and then click ADD.

Add User			\times
Username *	hystax-acura		
Password *		í	
Confirm Password *			
First Name	Migration		
Last Name	User		
Email	migration-user@virtuozzc		
Description	This user will be used by th Acura solution to access th Cloud resources.		
	ciou resources.		6
	CAN	CEL ADD	

- 3. Create a role. We will clone the role VMware Consolidated Backup user and name it Hystax-HVRAgent. On the Administration tab, go to Access Control > Roles, select VMware Consolidated Backup user, and then click CLONE. Give the new role a meaningful name and ensure it has the following permissions selected:
 - Virtual machine Change Configuration Acquire disk lease
 - Virtual machine Change Configuration Toggle disk change tracking
 - Virtual machine Provisioning Allow read-only disk access
 - Virtual machine Provisioning Allow virtual machine files upload
 - Virtual machine Snapshot management Create snapshot
 - Virtual machine Snapshot management Remove snapshot

ole name				
HRVAgent-Role				
Description				
Used by the Consolidated Backu	p utility			
Show Selected ~	Select all	Show	Selected	~
Virtual machine	Change Configuration			
	Acquire disk lease			
	Toggle disk change tracking			
	Provisioning			
	Allow read-only disk access			
	✓ Allow virtual machine files upload			
	Snapshot management			
	✓ Create snapshot			
	Remove snapshot			
		с	ANCEL	SAV

4. Assign the role to the user. Go to **Inventory** > **Permissions**, select the previously created user, and then click **Edit**. Search for the newly created role and add the role to the user.

Change Rol	e vmwvc.demo-virtuoz	zo.com	×
Domain	VSPHERE.LOCAL		
User/Group	hystax-acura		
Role	HRVAgent-Role		~
	Propagate to children		
		CANCEL	ок

At this point, the **hystax-acura** user has the necessary permissions to perform migrations.

Deploying HVRAgent on VMware ESXi Hypervisor

There are three types of replication agents:

- VMware agent is an external agent to replicate VMware virtual machines without installing any software directly on VMs. Note that the agent requires access to the VMware CBT API and network access to a vCenter or ESXi host is mandatory. Also, keep in mind that the agent from the same OVA template must be deployed to all ESXi hosts where machines need to be protected.
- Windows agent is an internal agent that can be deployed to any number of customer Windows virtual or physical machines.
- Linux agent is an internal agent that can be deployed to any number of customer Linux virtual or physical machines.

As we are performing a migration from VMware as the source cloud platform, we will use the VMware agent. When any of the agents is deployed, the machine with it (or all machines on the same ESXi host where the agent is located) will appear in the Hystax Acura Control Panel under customer dashboard in the **Discovered** state.

1. Log in to the Hystax Acura portal at https://floating-ip-acura-instace.

hx hystax				
user-defined-on-step1-of-installation-wizzard				
Login				

2. Select the customer you wish to perform the migration for. In our example, we will perform a migration from VMware as the source cloud to Virtuozzo Hybrid Infrastructure. You can to go back to the main menu by clicking the Hystax logo on the top left.

Hystax Acura Virtuozzo				🔎 ? Menu ~
쯓 Customers 1	⊊ Machines 2	Cloud Sites		
Customers				Manage Clouds
				Search
Name	Machines	Cloud Sites	Actions	
TriangleCakes	2	0	Edit Delete	
				Showing 1 to 1 of 1 rows
Add				

3. Click Install agents.

⊗ Smart Cloud Migration					×
	Replicate machines C	onfigure replication setting	Create Migration plan	Run_test Migration Cutover	
					Manage Clouds
Add Migration plan Create a Migration plan to use it for launching	ng replicated machines in the target cloud				
# Machines Groups					
Default					default 🔨
					Search
Name	IP addresses	Size	♦ Status	Last Snapshot	Actions
	There are no machines in this	group. Please download an	d install replication agent to disco	ver machines.	
Add Group Bulk actions A					

4. Select the VMware agent, and then click **Next**.

	2		3		6
Step 1 Customer selection	Step 2 Agent selection		Step 3 Agent settings		Step 4 Replication Instructions
	External agents are deployed on hypervisor level and can operate with multiple VMs.	into VMs/ba therefore, de		LINUX	

5. You will be asked to provide credentials for the vSphere environment. Provide the credentials created previously.

Download agents			
0	2	3	4
Step 1	Step 2	Step 3	Step 4
Customer selection	Agent selection	Agent settings	Replication instructions
n this step, select a group, where replicated machines will be	automatically added to. If required, configure vSphere access setting	s for VMware replication. When all of the above is done, you car	n move further and click 'Next'.
lachines group			
Default			
hoose VMware vSphere			
Registered VMware vSphere			
Platform	VMware-to-VHI		
New VMware vSphere			
Platform Name	VMware-to-VHI		
Endpoint	ip-of-your-vCenter		
Login	hystax-user		
Password			

6. Download the OVA file and deploy it on each ESXi host in your VMware cluster that you want to migrate workloads from.

Download agents			
0	2	3	
Step 1	Step 2	Step 3	Step 4
Customer selection	Agent selection	Agent settings	Replication instructions
nstructions 1. Download agent OVA file using the link above and deploy it of 2. Launch deployed VMs (agents) to protect machines on each	host.		
Machines will be detected and shown in a target group in a few mir replicating them.	utes after agent deployment and launch. By default, all discovere	d machines will have 'Discovered' status. Select machines you w	vant to replicate and use 'Actions -> Start Replication' to start
			Previous

- 7. Deploy the agent:
 - a. Use the **Deploy OVF Template** wizard to deploy HRVAgent. Right-click the ESXi server you wish to deploy the agent on. You will need to repeat this procedure for each ESXi server available that you wish to migrate workloads from.

vSphei	Actions - 192.168.122.138	an an a			PHERELOCAL V 🙄 🕐
	🔂 New Virtual Machine		<u> </u>		
	😴 Deploy OVF Template	92.168.122.138 ACTIONS			
11 81	🗷 New Resource Pool	ary Monitor Configure Permissions VMs	Resource Pools	Datastores Networks Updates	
· @ vmwvc	Et New vApp				
~ 🗈 VM	🛱 Import VMs	DEDIT DELETE			
> 🗖 1	Maintenance Mode	User/Group	Υ τ	Role T	Defined In T
		& VSPHERE.LOCAL\Administrator		Administrator	vmwvc.demo-virtuozzo.co
	Connection	答 VSPHERE.LOCAL\Administrators		Administrator	Global Permission
	Power	答 VSPHERELOCAL\AutoUpdate		AutoUpdateUser	Global Permission
	Certificates	S VSPHERELOCAL\hystax-acura		HRVAgent-Role	vmwvc.demo-virtuozzo.co
	Storage	答 VSPHERELOCAL\NsxAdministrators		NSX Administrator	Global Permission
	🔮 Add Networking	答 VSPHERELOCAL\NsxAuditors		NSX Auditor	Global Permission
	Host Profiles	答 VSPHERELOCAL\NsxViAdministrators		NSX VI Administrator	Global Permission
	Export System Logs	答 VSPHERE_LOCAL\RegistryAdministrators		Content Library Registry administrator (sampl	Global Permission
		答 VSPHERE.LOCAL\SyncUsers		SyncUsers	Global Permission
	Reconfigure for vSpher				
	C Assign License			1.1	5 of 16 items < < 1 / 2 >
Recent	Settings				
Recent	Move To	T sum T sum	T laitister	Y Queued Y	-
sk Name	Tags & Custom Attribut	T Status T Details	* Initiator	For	me J T Completion Time
All	Remove from Inventory				

b. Select Local file, click Upload files, and choose the OVA file.

Deploy OVF Template	Select an OVF template $ imes$
	Select an OVF template from remote URL or local file system
1 Select an OVF template	Enter a URL to download and install the OVF package from the Internet, or browse to a location accessible from your computer,
2 Select a name and folder	such as a local hard drive, a network share, or a CD/DVD drive. O URL
3 Select a compute resource	http https://remoteserver-address/filetodeploy.ovf .ova
4 Review details	Local file
5 Select storage	UPLOAD FILES HVRAgent-VMware-to-VHI-606a9b9b-2809-47dc-866f-e66cb666f5ae.ova
6 Ready to complete	
	CANCEL

c. Follow the deployment wizard and provide the necessary information (compute resources, storage, networks) for HVRAgent. HVRAgent must be able to access the vCenter internal IP address.

Deploy OVF Template	Ready to comp	lete			×
	✓ Select a compute reso	ource			
1 Select an OVF template	Resource	192.168.122.138			
2 Select a name and folder	✓ Review details Download size	1.0 GB			
3 Select a compute resource	✓ Select storage				
4 Review details	Size on disk Storage mapping	53.0 GB			
5 Select storage	All disks	' Datastore: datastore1; Format: Thick provision lazy zeroed			
6 Select networks	✓ Select networks Network mapping	1			
7 Ready to complete	VM Network	VM Network			
	IP protocol	IPV4			
			CANCEL	ВАСК	FINISH

8. Once the HVRAgent VM is up, check the console and verify everything is correct.

Docker status: Ok Image status: Ok Agent status: Ok Connection to VMware: Connected
Docker status: Ok Image status: Ok Agent status: Ok Connection to VMware: Connected HVRAgent stopped Detect base image in progress Base image found Starting HVRAgent in progress HVRAgent started 2022-05-23 10:15:01,533:INFO: Hystax Acura VMware machine DR Agent - Version 3.7.245 2022-05-23 10:15:01,534:INFO: Quiesce strategy: QuiesceStrategy.enforce HVRAgent stopped Detect base image in progress Base image found Starting HVRAgent in progress HVRAgent started 2022-05-23 10:16:05,632:INFO: Hystax Acura VMware machine DR Agent - Version 3.7.245 2022-05-23 10:16:05,633:INFO: Quiesce strategy: QuiesceStrategy.enforce HVRAgent stopping in progress HVRAgent stopping in progress HVRAgent stopping in progress HVRAgent stopped Detect base image in progress HVRAgent stopped Detect base image in progress HVRAgent stopped Detect base image in progress Base image found Starting HVRAgent in progress HVRAgent stopped Detect base image in progress HVRAgent stopped Detect base image in progress HVRAgent started 2022-05-23 10:17:09,969:INFO: Hystax Acura VMware machine DR Agent - Version 3.7.245 2022-05-23 10:17:09,969:INFO: Hystax Acura VMware machine DR Agent - Version 3.7.245 2022-05-23 10:17:09,969:INFO: Hystax Acura VMware machine DR Agent - Version 3.7.245 2022-05-23 10:17:09,970:INFO: Quiesce strategy: QuiesceStrategy.enforce
<pre> <u>To console > </u></pre>

9. Click the Hystax logo on the top left, and then select the customer you wish to manage. You will see the machines running on your ESXI server have been discovered.

Cloud Sites	Machines Groups	2	Machines		
⊘ Smart Cloud Migration					×
	Install agents Replicate machines	Configure replication settings	Create Migration plan	Run test Migration Cutover	
					Manage Clouds
Add Migration plan Create a Migration plan to use it for	launching replicated machines in the target clo	ud			
骨 Machines Groups					***
Default					default … 🔥
					Search
Name	IP addresses	∳ Size		≑ Last Sn	apshot
O Jenkins			Discovered		
vCenter-demo-hystax			Discovered		
Selected rows count: 0					Showing 1 to 2 of 2 rows
Add Group Bulk actions *					

10. Click the ellipsis icon ..., and then click **Start replication**. If everything is correctly configured, replication of the remote instance will start in your target cloud. The replication will take some time, depending on how much data will be replicated and the connection between your source and target cloud.

A Machines Groups							***
Default							default ···· 🔥
						earch	S
Name Jenkins	IP addresses	Size	÷	Status	Last S	inapshot	♦ Actions
vCenter-demo-hystax			•	Discovered		Move to anot	her Group
Selected rows count: 0						Park	3
						Start Replicat	tion
Add Group Bulk actions 🔺						Edit Replicati	on settings
						Delete Machi	ne
						Search	S
□ Name	IP addresses	Size	\$	Status	🗍 Las	t Snapshot	+ Actions
❶ ip-172-31-44-76			•	Replicating (10%, 14.92MB/s)			•••
Selected rows count: 0						Showir	ng 1 to 1 of 1 rows

11. Wait until the instance is synced.

			Search	C
□ Name	IP addresses	Size Sta	tus 🔶 Last Snapshot 🔶 A	ctions
ip-172-31-44-76	172.31.44.76	8.0 GB Sy	nced 05/01/2022 10:45 PM	

12. While the image is being synced, create a target network (the network that will be used by our instance in the replicated target cloud). Go to your Virtuozzo Hybrid Infrastructure self-service portal at **vhi-admin-panel-fqdn:8800** and log in to the target project.

	Sign in	
Domain Ringo-Cloud		
Login migration-user		
Password		÷

13. On the **Virtual machines** tab, check that the Acura Cloud Agent has been deployed automatically.

Name 🕇	Status \downarrow	IP address	vCPUs 4	RAM ↓	Storage \downarrow	Volumes	¢
Target Project1_cloud_agent	Active	192.168.3.54	2	4 GiB	8 GiB	1	

- 14. Go to **Networks**, click **Create virtual network** and follow the steps. We will create the network by using exactly the same CIDR (172.31.32.0/20) as the instance being replicated, to show an example of a migration with exactly the same IP address source and remote. You can use any other network CIDR.
- Add a migration plan. On step 1, add a machine. Click the ellipsis icon ..., then click Add machine
 > Default > the machine discovered.

Add Migration plan					×
Name*					
Basic Expert					
Devices & Ranks			Subnets*		+
:: Rank 0 – 0 machines					
	Add machine	Defa	ault	Jenkins	
				Close	Save

16. Add a migration plan. On step 2, configure the subnets for your new instance. Expand the view for your instance. You will see the information on the machine ID, flavor, and port (network). Also, on the left you will see the information on the network to be used.

Add Migration	plan		×
Name* Basic Expe	jenkins-migration		
Devices & Ranks		Subnets*	+
:: Rank 0 – 1 r	nachines	*** 🔊 subnet_0	Ê
:: Jenkins –	xlarge, 1 ports	··· A Subnet ID*	
Machine ID*	526cd8b4-4b31-3620-e065-8ec17715dd52	CIDR*	•
Flavor name*	xlarge name* Port subnet* Port ip	172.31.32.0/20	
	rt_0 subnet_0 ~ 172.31.44.76		
		Close	9

We will replace the flavor name with one that is available in our cloud. You can check available flavors by going to **Virtual machines** and **Flavors**. Also, we will find the subnet ID for our newly created network and paste it there.

- 17. Source the information on the subnet ID:
 - a. Log in to your Virtuozzo Hybrid Infrastructure admin panel via SSH.
 - b. Source the admin-openrc.sh file:

source /etc/kolla/admin-openrc.sh

c. Run the command openstack network list --insecure and identify the subnet ID:

<pre>[root@~]# openstack network list</pre>	insecure		
ID	l Name	Subnets	
40e0bdb6-ee47-4c8a-8791-3f9e0d69d691 467c893d-f141-4645-86d6-de8e1bced23e 9fad0052-fc80-4150-9dd5-d0b9daf4b9ce	HA network tenant c7a06cdd102cd19d98365448757472b0 vm-network external public HA network tenant 15afdf824c534233b036ff3bf9375879	<pre>a70208af-lece-4234-948b-8aef297a3279 70dd6fca-d4b9-4885-84a2-8636792f39cb, 825c3066-3989-4572-946d-02b20268bed9,</pre>	

18. Add the subnet ID.

Edit migration plan		×
Name* jenkins-migration Basic Expert		
evices & Ranks		Subnets*
:: Rank 0 – 1 machines	^	subnet_0
:: Jenkins – xlarge, 1 ports	^	Subnet ID*
Machine ID* 526cd8b4-4b31-3620-e065-8ec17715dd52		05afbd8d-2293-42b6-a4b7-3
Flavor name* xlarge		CIDR* 172.31.32.0/20
# Port name* Port subnet* Port ip		
1 port_0 subnet_0 ~ 172.31.44.76		
		Close Save

19. Add a secondary port. Add a subnet by clicking + in the **Subnets** section. We will add a floating IP address.

Edit migration plan

Name*		jenkins-migration				
Basic	Expert					
Devices &	Ranks				Subnets*	+
:: Rank	0 – 1 machi	nes		🔨	subnet_0	â
:: Jer	nkins – xlarge	e, 1 ports			Subnet ID*	
Machi	ine ID*	526cd8b4-4b31-3620-e065-8	Add port		05afbd8d-2293-42b6-a4b7-3	•
	r name*	xlarge	Add boot delay		CIDR*	
#	Port name	* Port subnet*	Move to another Rank	Þ	112.01.02.0/20	
1	port_0	subnet_0 ~	Delete machine		Name	â
					Subnet ID*	
					Subnet ID	•
					CIDR*	
					CIDR	
					Close	ave
b9b-2809-47dc-86	6f-e66cb666f5ae/#					

20. Click the **Subnet ID*** drop-down menu of your new subnet, and then select the public IP address you wish to use. If you leave the **Port IP** field blank, the IP address will be allocated via DHCP. Provide a name for the plan and click **Save**.

×

Edit migration plan

Name*		jenkins-migration				
Basic	Expert					
Devices &	Ranks				Subnets*	+
:: Rank	c 0 – 1 machi	nes		~	subnet_0	Ê
:: Jei	nkins – xlarg	e, 2 ports		^	Subnet ID*	
Mach	ine ID*	526cd8b4-4b31-3620-	e065-8ec17715dd52		05afbd8d-2293-42b6-a4b	₹-7-3
Flavo	r name*	xlarge			CIDR* 172.31.32.0/20	
#	Port name	* Port subnet*	Port ip			
1	port_0	subnet_0	∽ 172.31.44.76	â	public	â
2	port_1		∽ Port IP	Ē	Subnet ID*	
					Subnet ID	•
					(172.31.32.0/20)	
					fip-service-subnet (169.254.	32.0/23)
					public (192.168.3.0/24) Close	Save

×

Edit migration plan

Devices & Ranks Subnets*	+
:: Rank 0 – 1 machines	
:: Jenkins – xlarge, 2 ports ··· · · · · · · · · · · · · · · · · ·	Ê
Machine ID* 526cd8b4-4b31-3620-e065-8ec17715dd52 O5afbd8d-2293-42b6-a4b7-3 Image: CiDR* Flavor name* xlarge 172.31.32.0/20 172.31.32.0/20	
# Port name* Port subnet* Port ip 1 port_0 subnet_0 ~ 172.31.44.76 mmmm	Î
2 port_1 public ~ Port IP fc61fa16-508c-4d03-9201-fb ~ CIDR*	
192.168.3.0/24	

21. Click **Run test migration** and select the migration plan.

1	2	3
Step 1	Step 2	Step 3
Select Customer	Select Migration plan	Setup Cloud Site settings
ther and click 'Next'.		When all of the above is done, you can mo
rther and click 'Next'. Select All ☞ jenkins-migration		
Select All		

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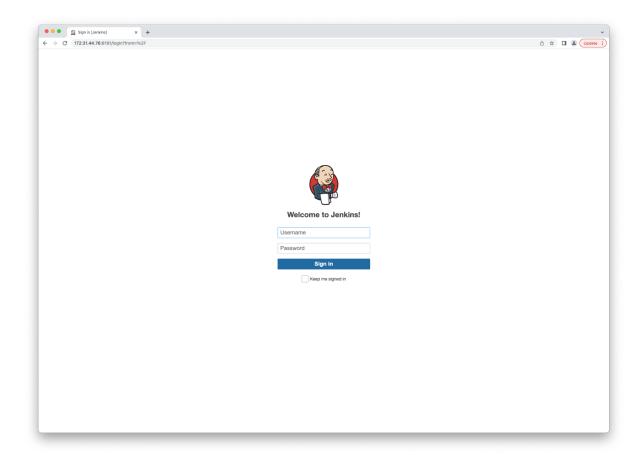
×

22. Create a cloud site. A cloud site is a way to logically group a migration plan with a snapshot to be used for the migration. Specify the cloud site name, select a snapshot, and click **Run migration**.

	1	2		3	
So	Step 1 lect Customer	Step 2 Select Migrati		Step 3 Setup Cloud Site setti	ingo
On this step, spe correctness of al	ecify a name for future Cloud	d Site, select a snapsho oud Site. When all of th	t to migrate your l	business application to and ch lick the button "Start" and in	neck
Cloud Site Nam	e				
Jenkins-Cloud	-Site				
Snapshot time					
05/23/2022 12	:53 PM				
Final Migration	plan				
Machines					~
				Search	
Name	IP Address	Flavor	Rank		¢
Jenkins	172.31.44.76	xlarge	0	subnet_0, public	
				Showing 1 to 1	of 1 rows
				Previous Next Rur	n migration

If the test migration is successful, you will see your replicated instance available in your target cloud. When you are done reviewing the test migration, you can delete the resources by deleting the cloud site. Then, you can redo the migration or detach Hystax Acura from the migration.

Hystax Acura	Active	192.168.100.182	8	25 GiB	50 GiB	
S Jenkins	Active	172.31.44.76, 192.16	1	512 MiB	0 bytes	



For the final cutover, detach Hystax Acura from the migration. In this case, Hystax Acura will stop tracking any resources belonging to this migration.

nkins-clou	ıd-site					Deta	ch Dele
te nning		Project ID c57dd14c08b	c4d6780ab1787774fd6e8		apshot /23/2022 12:	56 PM	
🖵 Machines							
					Searc	:h	C
Name	IP Address	Flavor	Subnet	Snapshot		Status	Actions
Jenkins	192.168.3.56 172.31.44.76	tiny	subnet_0 public	05/23/2022	12:27 PM	Active	-
						Showing 1 to	0 1 of 1 rows

	Search
▲ State	♣ Actions
Detaching	Edit Delete
	Showing 1 to 1 of 1 rows

Now, you can manage your resources from Virtuozzo Hybrid Infrastructure as you normally do.

Providing access to the Hystax Acura portal

In order to allow users to manage their migration workloads, we can create a user with project scope from the Hystax Acura web interface.

1. Log in to the Hystax Acura solution web interface and click **Settings** on the left-hand side. Click **Roles**, and then click **Add**.

Add Role	×
Share role with customers	
Name	TriangleCakes Inc.
Description	Role project scope for TriangleCakes
Role owner	Customer: TriangleCakes
Settings template	Customer •
	Close Save

2. Assign the necessary permissions to the role. We will provide full access to the **TriangleCakes** target cloud.

Partner Admin Role owner: Virtuozzo Settings template: Partner	Share role with	₿ □
TriangleCakes Inc. Role owner: TriangleCakes Settings template: Customer	customers Name*	TriangleCakes Inc.
Add	Description	Role project scope for TriangleCakes
	S Manage use	rs and roles allocation
	🗹 Edit user	r info
	C Reset us	er password
	🗹 Create u	sers
	S Activate	users
	🗹 Delete u	sers
	🕑 User ass	signment
	S Roles as	signment to own users
	✓ View use	ers
	🕑 Manage Mig	ration plans
	🗹 Edit Mig	ration plan
	C View Mig	gration plans
	🗹 Add Mig	ration plans
	C Delete M	finishing meno

3. Add a user. Click **Users**, and then click **Add**. Fill in all the information and select the **Customer:Customer** name in **Organization**.

Add User			\times
Username *	hystax-acura		
Password *		í	
Confirm Password *	•••••		
First Name	Migration		
Last Name	User	-	
Email	migration-user@virtuozzc		
Description	This user will be used by t	ne Hystax	
	Acura solution to access the	ne Source	
	Cloud resources.		
	CAN	CEL	ADD

4. Click the newly created user to assign a role.

E Settings								
User settings	SMTP settings	Notifications	Users	Roles				
n this tab you can add sers, reset their passwo anagements is availabl at belong to another ci	ords to new ones and le only for current hier	change such user o	data like name	. Please pay your				
Acura-admin	Active	R.						
Organization: Virtuozzo	Login	Login triangle-cakes-user						
Anthony Organization: TriangleCakes	Name	Anthony						
	Password							
Add	Confirm							
	password							
	Save	elete						
	Assignment	s						
	Role	A Role se	cope	¢	Actions			
		No matching records found						
	Add							

5. Click **Add** in the **Role** section and add the role.

Assign role		×
Assignment role	TriangleCakes Inc.	•
Role scope	Customer: TriangleCakes	•
		Close

The user, at this point, is able to log in to the Hystax Acura web interface and perform Migration as a Service (self-service migration).

hx hystax	Hystax Acura T	<u>ر</u> 9	?	Menu ~			
Welcome, Anthony	 Cloud Sites 2 	# Machines Groups	Machines				
Download agents	⊗ Smart Cloud Migrati	on				ж	
O Migrate	Install agents	Replicate machines	Configure replication settings	Create Migration p	lan		
ull Reports	Run test Migration Cutover						
û Events				Ma	anage (Clouds	
₩ Settings	Cloud Sites						
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i Help	Name		State	Actions		v	
Hystax OptScale helps	website-testdomain		Running	Edit Delete			
companies quickly increase FinOps adoption	website-testdomain1		Deleting	Edit Delete			
 Cloud cost optimization and management 				Showing 1 to	2 of 2	rows	
 Full cost transparency for managers and full budget allocation 							
Engineers engagement in FinOps process via Slack Clusters, jobs, resource groups	ී Migration plans						

Troubleshooting

Hystax Acura automatically checks cloud access and the necessary permissions for assuring successful operation. It provides detailed error messages that describe their potential causes.

In case of an error, check the correctness of the entered data and availability of the necessary permissions.

Limitations

The Hystax Acura limitations are listed in the official documentation.