

Hystax Acura Migration from VMware

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CHAPTER 1

Hystax Acura 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 using Hystax Acura migration solution.

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

CHAPTER 2 Migration Steps

The migration process will be divided in to four sections:

- 1. Ensure the Virtuozzo Hybrid Infrastructure Platform is ready. Refer to the Integration Guide for Hystax Acura guide and check the following sections:
 - Virtuozzo Hybrid Infrastructure Platform resources planning and configuration.
 - Deploying the Hystax Acura migration solution on the Virtuozzo Hybrid Infrastructure.
- 2. VMware resources planning and configuration.
- 3. Deploying the HVRAgent on the VMware ESXi Hypervisor.
- 4. Simple Test Migration.

2.1 Resource Planning and Configuration for VMware

In this guide we will be performing a migration from VMware to the Virtuozzo Hybrid Infrastructure Platform; Before we can start with the migration, we need to ensure certain resources are available on the VMware Platform, such as a user with some specific permissions and the HVRAgent (Hystax Replication Agent for VMware) deployed on each of the ESXi Hypervisors. Replication agents are used to replicate the workloads between VMware ESXi Hypervisors (Source Platform) and the Virtuozzo Hybrid Infrastructure Platform (Target Platform/Target Project). From now on we will be referring to the VMware Platform as the Source Platform, and the Target Project or Platform when referring to the Virtuozzo Hybrid Infrastructure Platform.

Hystax Acura Migration Solution Architectural Overview



Ports needed for correct agent work:

- vSphere host tcp/443
- ESXi host(s) tcp/udp/902
- Send logs to the Acura cluster udp/12201

Hystax VMware Replication Agent requires the following user permissions in vSphere (the "**VMware Consolidated Backup user**" role in vCenter):

• Virtual machine - Configuration - Disc 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

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

• Virtual machine - Configuration - Disc 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, vCenter user requires one extra permission to operate: Profile-driven storage > Profile-driven storage view.

Hystax VMware Replication Agent uses VMware snapshots and VMware CBT API in order 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% free space available on VMware storage.
- VMware puts additional load on storage while creating snapshots or running machines with existing snapshots.

Please consider 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 for it to display its network information in the target VMware ESXi correctly.

1. Login to your vCenter.



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

Solutions 🗸	ADD EDIT DEL	ETE MORE Y									
Client Plugins											
vCenter Server Extensions	Username	Add Llook				Description	T Locked	т	Disabled	Ŧ	Domain 🕇
Deployment 🗸 🗸	Оки	Add User			×		No		No		vsphere.local
System Configuration	Administrator						No		No		vsphere.local
Customer Experience Improvement Program	• hystax-acura	Lisername *	burtay, agura				No		No		vsphere.local
Client Configuration		Osemane	Trystax-acura				No		No		vsphere.local
Support	6c5-9da0-1ed79a05fb	Password *	•••••	Û			No		No		vsphere.local
Upload File to Service Request		Confirm Password *	•••••								
Certificates		First Name	Migration								
Certificate Management		Last Name	User								
Single Sign On 🗸 🗸		Email	migration-user@virtuozzc								
Users and Groups			-								
Configuration		Description	This user will be used by the	ne Hystax							
			Acura solution to access th	ne Source							
			cloud resources.		10						
					_						
			CAN	CEL ADI	D						

- 3. Create a role, we will clone the role VMware Consolidated Backup user and name it Hystax-HVRAgent. On Administration tab, go to Access Control > Roles, select VMware Consolidated Backup user, and click CLONE. Give it a meaningful name and ensure it has the following permissions selected:
 - Virtual machine Configuration Disc 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
- Virtual machine Configuration Disc change tracking

Role name				
HRVAgent-Role				
Description				
Used by the Consolidated Backup	u utility			
Show Selected V	Select all	Show	Selected	\sim
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			

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

Change Rol	e vmwvc.demo-virtuozzo.com	×
Domain	VSPHERE.LOCAL	
User/Group	hystax-acura	
Role	HRVAgent-Role	\sim
	Propagate to children	
	CANCEL	

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

2.2 Deploying HVRAgent on VMware ESXi Hypervisor

There are three types of replication agents:

- VMware agent an external agent to replicate VMware virtual machines without installing any software directly on VMs. Please refer that the agent requires access to VMware CBT API and network access to vCenter or ESXi host is mandatory. *Note that the agent from the same ova template must be deployed to all ESXi hosts where machines need to be protected.*
- **Windows agent** an internal agent which can be deployed to any number of customer Windows virtual or physical machines.
- **Linux agent** an internal agent which 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 be using the VMware Agent. When any of the agents are deployed, the machine with it (or all machines on the same ESXi host

where the agent is located) will appear in Hystax Acura Control Panel under customer dashboard in the **Discovered** state.

1. Login to the Hystax Acura portal by going to https://floating-ip-acura-instace.

🛝 hystax	
user-defined-on-step1-of-installation-wizzard	
Login	
Login © 2022 Hystax All rights reserved	

2. Click on the customer you wish to perform the migration for, in our example we will be performing a migration from VMware as Source Cloud to Virtuozzo Hybrid Infrastructure platform. Any time you wish to go back to the main menu click on the Hystax logo on the top left.

Hystax Acura Virtuozzo				🤔 ? Menu -
쯓 Customers 1	Q Machines	Cloud Sites		
출 Customers				Manage Clouds
				Search 2
Name	Machines			
TriangleCakes	2	0	Edit Delete	
Add				Showing 1 to 1 of 1 rows

3. Click Install agents.

© Smart Cloud Migration	
Install agents Configure replication settings Create Migration plan Run test Migration Cutover	
Add Migration plan Create a Migration plan to use it for launching replicated machines in the target cloud	
쓝 Machines Groups	
Default	

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

Download agents	Age	2 Step 2 mt selection		3 Step 3 Agent settings	Step 4 Pepiloation Instructions
On this step, select an agent type, which will replicate the	machines. When all of the above is d External agents are deployed on a hypervisor twell and can operate with multiple VMs.	one, you can move furt	her and click 'Next'. Internal agents are de into VMs/bare metal n therefore, do not rely hypervisors/storage.	koyed achines, n	
					Previous

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

Download agents	•	•	•
1	2	3	4
Step 1 Customer selection	Step 2 Agent selection	Step 3 Agent settings	Step 4 Replication instructions
In this step, select a group, where replicated machines will be au	tomatically added to. If required, configure vSphere access setting	s for VMware replication. When all of the above is done, you can	move further and click 'Next',
achines group			
Default			
Desistered \0.0 uses uSphere			
negistered viviware vopriere			
Platform	VMware-to-VHI		
New VMware vSphere			
Platform Name	VMware-to-VHI		
Endpoint	ip-of-your-vCenter		
Login	hystax-user		
Password			

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

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

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

— "Cobo	Actions - 192.168.122.138		
	🔂 New Virtual Machine		Ť
	😴 Deploy OVF Template	92.168.122.138 ACTIONS	
றை	🗷 New Resource Pool	ary Monitor Configure Permissions VMs Resource Pools Datastores Networks Updates	
v 🔗 vmwvc	Et New vApp		
~ 🗈 VM	្រី Import VMs	D EDIT DELETE	
	Maintenance Mode	User/Group 1 T Role T Defined In T	
Ý 🖬 '	Maintenance Mode	2 VSPHERELOCAL\Administrator 20 vmwvc.demo-virtuozzo.co	
	Connection	巻 VSPHERE_LOCAL\Administrators Administrator Global Permission	1
	Power	格 VSPHERELOCAL\AutoUpdate AutoUpdateUser Global Permission	1
	Certificates	🙎 VSPHERELOCAL\hystax-acura HRVAgent-Role 🙆 vmwvc.demo-virtuozzo.co	1
	Storage	巻 VSPHERELOCAL\NsxAdministrators NSX Administrator Global Permission	
	🔮 Add Networking	格 VSPHERELOCAL\NsxAuditors NSX Auditor Global Permission	
	Host Profiles	称 VSPHERELOCAL\NsxVIAdministrators NSX VI Administrator Global Permission	
	Export System Logs	巻 VSPHERELOCAL\RegistryAdministrators Content Library Registry administrator (sampl Global Permission	
	Decenfigure for uSpher	巻 VSPHERE.LOCAL\SyncUsers SyncUsers Global Permission	
	Reconfigure for vapiter	Li Bad Millann - K. C. L. (2. N	2
	C Assign License		-
V Recent	Settings		-
Recent	Move To		
Task Name	Tags & Custom Attribut	T Status T Details T Initiator T Cueved Y Start Time ↓ T Completion Time	-
	Remove from Inventory		
		1	em

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

Deploy OVF Template	Select an OVF template \times
1 Select an OVF template	Select an OVF template from remote URL or local file system Enter a URL to download and install the OVF package from the Internet, or browse to a location accessible from your computer, such as a local hard drive, a network share, or a CD/DVD drive.
2 Select a name and folder	Ourl
3 Select a compute resource	http://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 NEXT

7.3. Follow the deployment wizard and provide the necessary information (compute resource, storage, networks) HVRAgent. The HVRAgent should be able to access the vCenter internal IP.

Deploy OVF Template	Ready to comp	lete			×
	✓ Select a compute reso	urce			
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	imes Select storage				
4 Review details	Size on disk	53.0 GB			
	Storage mapping	1			
5 Select storage	All disks	Datastore: datastore1; Format: Thick provision lazy zeroed			
6 Select networks	\vee Select networks				
	Network mapping	1			
7 Ready to complete	VM Network	VM Network			
	IP allocation settings				
	IP protocol	IPV4			
			CANCEL	ВАСК	FINISH

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

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 stopping in progress 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 stopped Detect base image in progress Base image found Starting HVRAgent 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 10:17:09,970:INFO: Quiesce strategy: QuiesceStrategy.enforce
<pre> Io console ></pre>

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

Clo Clo	ud Sites		Machines Groups		P Machines					
⊗s	mart Cl	loud Migration								ж
			Install agents Replicate machines	Configure replication setti	ings Create M	ligration plan	Run test Migration	Cutover		
Add I	ligration	n plan Create a Migration plan to use it for	launching replicated machines in the target clo	ud						Manage Clouds
# N	lachine	es Groups								***
De	fault									default
									Search	S
	0	Name	IP addresses	\$ Size	¢	Status		Last Snapshot		Actions
	0	Jenkins			•	Discovered				
	0	vCenter-demo-hystax			•	Discovered				
s	elected	rows count: 0							Show	ing 1 to 2 of 2 rows
Ac	d Group	Bulk actions *								

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

Default								default 🚥	~
						s	earch	S	;
D	Name	IP addresses	s 🍦 Size	÷	Status	🔶 Last S	apshot	+ Actions	5
0	Jenkins			•	Discovered			•••	
0	vCenter-demo-hystax			•	Discovered		Move to anot	her Group	
Selected	rows count: 0						Park		**
							Start Replica	tion	
dd Group	Bulk actions 🔺						Edit Replicati	on settings	
							Delete Machi	ne	
						Sea	rch		_
	Name	IP addresse	es 🔶 Size	\$	Status	🔶 Las	t Snapshot	Act	io
				-					

11. Wait until the instance is synced.

	Name	IP addresses 🍦	Size 🔶	Status	Þ	Last Snapshot	¢	Actions
	Jenkins	192.168.122.193	14.9 GB 🏾 🔵	Synced		05/23/2022 12:27 PM		

12. While the image is being synced, let's create a target network (the network that will be used by our instance on the replicated target cloud). Go to your VHI self-service portal on **"vhi-admin-panel-fqdn:8800**" and login to the target project.

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

13. Once you've logged in, check the **Virtual machines** tab and you will see that the Acura cloud agent has been deployed automatically.

Name 🕇	Status \downarrow	IP address	vCPUs 4	RAM ↓	Storage U	Volumes	٥
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. I will create the network using exactly the same CIDR (172.31.32.0/20) as the instance being replicated. You could use any other network CIDR, this is just to show an example of a migration with exactly the same IP address source and remote.

15. Add a migration plan. Start by adding a machine. Click on the ellipsis icon "...", then click Add machine> Default, and select discovered machine.

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

16. Next, configure the subnets for your new instance. Expand the view for your instance. You will see information regarding Machine ID, Flavor (important to check the flavor you choose have enough resources for your instance), and Port (network). Also, on the left you'll see information regarding the network to be used.

Name*	jenkins-migration				
Basic Expert					
evices & Ranks				Subnets*	
:: Rank 0 – 1 machi	nes		^	subnet_0	Ê
:: Jenkins – xlarge	e, 1 ports		^	Subnet ID*	
Machine ID*	526cd8b4-4b31-3620-e0	065-8ec17715dd52		Subnet ID	•
Flavor name*	xlarge			172.31.32.0/20	
# Port name	* Port subnet*	Port ip			
1 port_0	subnet_0	× 172.31.44.76	â		

We will replace the Flavor name with one that is available on 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 regarding the subnet ID.
 - 17.1. Login to your Virtuozzo Hybrid Infrastructure Admin panel via SSH.
 - 17.2. Source the admin-openrc.sh file.

source /etc/kolla/admin-openrc.sh

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

[root@~]# openstack network list	insecure		
I ID	l Name	Subnets	
0845987c-9f6b-4f66-b309-a3020c4bbf39 2028c210-b2ad-4bdb-abbc-57c18b0f66f3 40460bdb6-edf-4c8a.87613-3f90d6d6f31 467c893d-f141-4645-86d6-de8c1bced23e 9fad0052-fc80-4150-9dd5-d0b3daf4b3c (f21ac0f-ec6f-4d7b-afc6-3aa6413412af ec8d6f59-e7ee-4633-a317-18134a3d523e	migrated-vm-network HA network tenant c7a06cdd102c419d98365448757472b0 I vm-network External J public HA network tenant 15afdf824c534233b036ff3bf9375879 I vm-network	05afbd8d-2293-42b6-a4b7-38e70bb5fb9a 1971634D-8062-4404-813a-40657240510 07208671-6ce-4349-948b.86ef297a3279 708db671-ce-4349-948b.86ef297a3279 70ddbfca-d4b9-4885-84a2-8636792f39cb, ab5e7524-47b5-4d87-8f2a-7e19c5d4e3f3 825c3066-3989-4572-946d-02520268bed9, fc61fa16-508c-4d03-9201-fbf24ce6cfb1 0fcc2876-040-4466F-808c-ff699315be 0fcc2876-040-4466F-808c-ff699315be 16c208fd-1158-4648-af21-01ef653c8af0	+

18. Add the subnet ID.

lame*	jenkins-migration				
Basic Expert					
evices & Ranks				Subnets*	
:: Rank 0 – 1 mach	ines		^	subnet_0	Ê
:: Jenkins – xlarg	e, 1 ports		🔺	Subnet ID*	
Machine ID*	526cd8b4-4b31-3620-e0)65-8ec17715dd52		05afbd8d-2293-42b6-a4b7	-3 -
Elavor name*				CIDR*	
# Port name	Port subnet*	Port ip		172.31.32.0/20	
1 port_0	subnet_0	~ 172.31.44.76	â		

19. Add a secondary Port. Add a subnet by clicking the "+" button on the **Subnets** section, we will be adding a floating IP.

me*	jenkins-migration			
asic Expert				
ices & Ranks			Subnets*	
Rank 0 – 1 machin	es		subnet_0	
:: Jenkins – xlarge	, 1 ports		Subnet ID*	
Machine ID*	526cd8b4-4b31-3620-e065-8	Add port	05afbd8d-2293-42	b6-a4b7-3 -
Flavor name*	xlarge	Add boot delay	CIDR*	
# Port name*	Port subnet*	Move to another Rank >		
1 port_0	subnet_0 ~	Delete machine	Name	
			Subnet ID*	
			Subnet ID	•
			CIDR*	
			CIDR	

20. Click on the **Subnet ID*** drop down menu for your new subnet and select the Public IP you wish to use. By leaving the **Port IP** field blank you are specifying DHCP. Provide a name for the plan and click **Save**.

Name*		jenkins-migration				
Basic	Expert					
evices & Ra	nks				Subnets*	
:: Rank 0 -	-1 machine	98		🔨	subnet_0	Ī
:: Jenkir	ns – xlarge,	2 ports		^	Subnet ID*	
Machine	I D * 5	i26cd8b4-4b31-3620-e065	5-8ec17715dd52		05afbd8d-2293-42b6-a4b7-3	•
Flavor na	me*	xlarge			CIDR* 172.31.32.0/20	
#	Port name*	Port subnet*	Port ip			
1	port_0	subnet_0 ~	172.31.44.76	Ē	public	
2	port_1	public ~	Port IP	â	Subnet ID*	
					fc61fa16-508c-4d03-9201-fb	•
					CIDR*	
					192.168.3.0/24	

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

	2	3
Step 1	Step 2	Step 3
Select Customer	Select Migration plan	Setup Cloud Site settings
Select All		
Select All grigonian jenkins-migration Custom Migration Plan		

22. Create a cloud site by giving a name, a cloud site is a way to logically group a migration plan with a

snapshot to be used for the migration. Give the Cloud Site a name, select a snapshot and click on **Run migration**.

	Step 1	Step	2	Step 3				
Sel	lect Customer	Select Migrat	ion plan	Setup Cloud Site settings				
n this step, spe orrectness of all ninutes your Clo	cify a name for future Cloud I configurations of future Clo ud Site will be ready for wor	Site, select a snapsh ud Site. When all of th k.	ot to migrate your b ne above is done, c	pusiness application to and chec lick the button "Start" and in sev	k 'eral			
loud Site Nam	e							
Jenkins-Cloud-	-Site							
n an als at times								
napsnot time								
05/23/2022 12	:53 PM							
inal Migration	plan							
Machines					~			
				Search				
Name	IP Address	Flavor	Rank	Subnet	÷			
Jenkins	172.31.44.76	xlarge	0	subnet_0, public				
				Showing 1 to 1 of	1 rows			

If all went well you will see your replicated instance available on your target cloud. When you are done reviewing the migration test you can delete the resources, by deleting the cloud site, then you can redo the migration, or you could detach.

	•						
Virtual machines	Hystax Acura	Active	192.168.100.182	8	25 GiB	50 GiB	
Network	🕅 Jenkins	Active	172.31.44.76, 192.16	1	512 MiB	0 bytes	



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

	- 1	Machines running															
	jeı	nkins-cloud	-site	9							l	Detach		Delete			
	State Run	e nning			Project ID c57dd14d	c08bc4d6	780ab1787774fd6	ie8	Snapsh 05/23/	ot 2022 12:5	6 PM						
	6	- Machines															
										Searc	ſ			C			
		Name	•	IP Address	Flavor		Subnet	Sna	pshot		Sta	tus	Act	tions			
		Jenkins		192.168.3.56 172.31.44.76	tiny		subnet_0 public	05/2	23/2022 12:2	27 PM	Acti	ve	-				
											Show	ing 1 to 1	1 of 1	rows			
Cloud Sites																	
												Sea	arch				
Name						State	Ð				¢	Actio	ns				
jenkins-cloud-site)					Deta	ching					Edit	D	elete			
														Showi	າເ	; 1 to	3 1 to 1 of

Now you can manage your resources from VHI as you would normally do.

CHAPTER 3

r

Providing Access to 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.

 Login to the Hystax Acura Solution web interface and click on the Settings tab on the left-hand side. Then click on Roles and click Add.

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

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	Active Share role with		
TriangleCakes Inc. Role owner: TriangleCakes	customers Name*	TriangleCakes Inc.	
Settings template: Customer	Description	Role project scope for TriangleCakes	
Add			Å
	Manage use	rs and roles allocation	
	S Edit user	rinfo	
	S Reset us	er password	
	🗹 Create u	sers	
	S Activate	users	
	S Delete us	sers	
	S User ass	ignment	
	S Roles as	signment to own users	
	☑ View use	ers	
	🗹 Manage Mig	ration plans	
	🗹 Edit Mig	ration plan	
	🗹 View Mig	gration plans	
	CR Andri Min	unting plane	

3. Now we will add a new user. Click **Users** and then click **Add**. Fill in all the information and select the **Customer:Customer** name as **Organization**.

Login*	trianglec-user
Name*	Anthony
Password*	•••••
Confirm password*	•••••
Organization*	Customer: TriangleCakes

4. Click on the newly create user in order to assign a role to the user.

User settings	SMTP settings	Notificat	tions Users	Roles					
this tab you can add/o ers, reset their passwoi anagements is available at belong to another cu	delete users, add role rds to new ones and e only for current hier stomer or partner.	es assignme change suc archy level	ents for some particu ch user data like nam and below, so user o	lar resources, chai e. Please pay you f one customer ca	nge activity of current r attention that user innot see and edit users				
Acura-admin self	Active	S							
Organization: Virtuozzo	Login	triangle-	cakes-user						
Anthony Organization: TriangleCakes	Name	Name Anthony							
_	Password								
Add	Confirm								
	password								
	Save	Delete							
		ts							
	Role		Role scope	¢	Actions				
			No matching re	cords found					

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

Assignment role	TriangleCakes Inc.	•
Role scope	Customer: TriangleCakes	•

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

📥 hystax	Hystax Acura T	riangleCakes		<u>_</u> 9	? Menu ~
Welcome, Anthony	Cloud Sites	# Machines Groups	Machines		
Download agents		on			×
O Migrate	Install agents	Replicate machines	Configure replication settings	Create Migration pl	an
lılıl Reports		Run test	Migration Cutover		
Ĵ Events				Ма	nage Clouds
≢ Settings	Cloud Sites				
? Troubleshooting				Quart	
i Help	Name		State	Actions	S
Hystax OptScale helps	website-testdomain		Running	Edit Delete	
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	ී Migration plans				
 Clusters, jobs, resource groups 					

chapter 4 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, please check the correctness of the data entered and availability of the necessary permissions.

CHAPTER 5 Limitations

The Hystax Acura limitations are listed in the official documentation.