

# Hystax Acura

## Cloud Migration Step-by-Step Guide

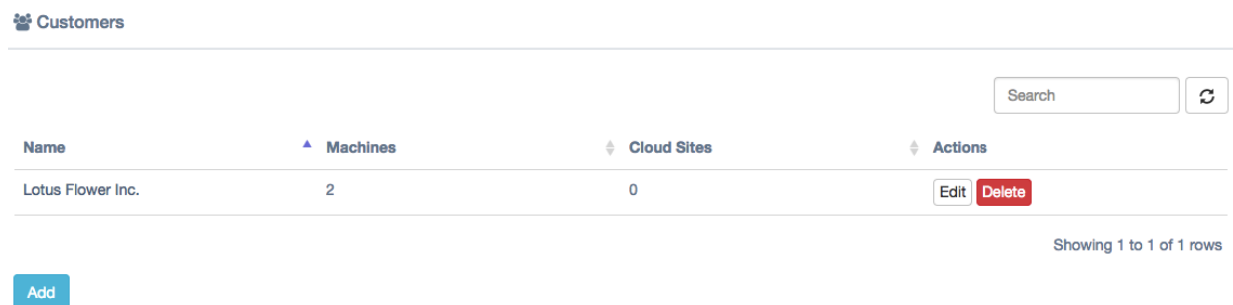


## Hystax Acura Cloud Migration Step-by-Step Guide

To perform cloud migration you need to complete the following steps:

### REPLICATION FLOW

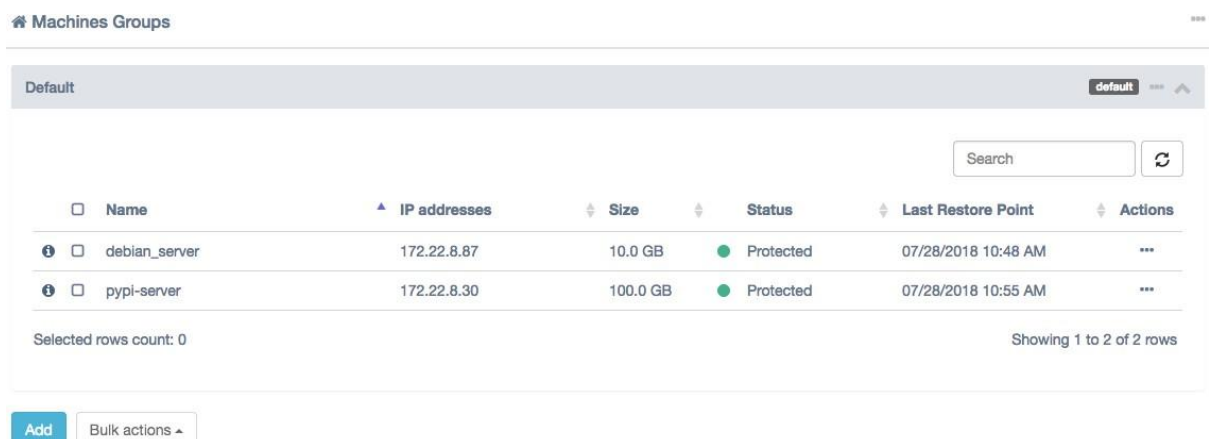
1. Login to the Hystax Acura Control Panel deployed as a part of the solution (refer to <https://hystax.com/support/> for more information on deployment instructions) and navigate to a customer dashboard for a customer you target to perform migration.



The screenshot shows the 'Customers' dashboard. At the top, there is a search bar and a refresh icon. Below this is a table with columns: Name, Machines, Cloud Sites, and Actions. The table contains one row for 'Lotus Flower Inc.' with 2 machines and 0 cloud sites. There are 'Edit' and 'Delete' buttons in the Actions column. At the bottom right, it says 'Showing 1 to 1 of 1 rows'. There is an 'Add' button on the left side.

Name	Machines	Cloud Sites	Actions
Lotus Flower Inc.	2	0	<button>Edit</button> <button>Delete</button>

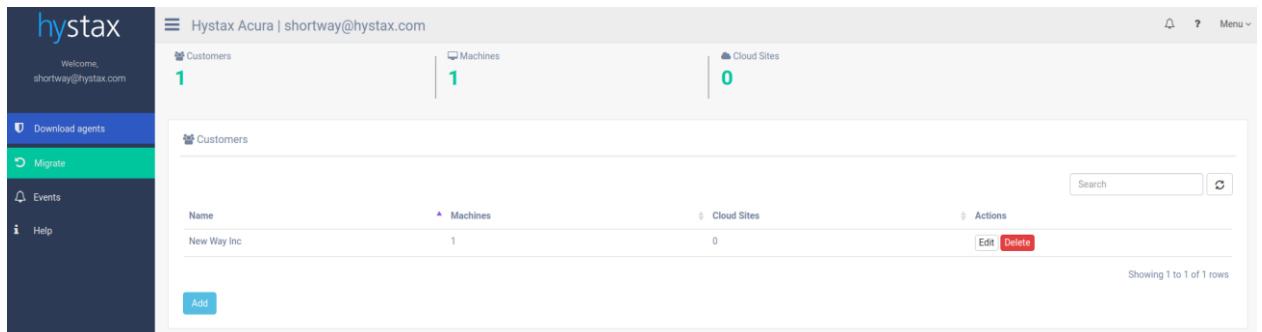
2. On a customer dashboard you can find information about replicated machines, Migration Plans and Migrations running on a target cloud. By default, no resources are available for a new customer.



The screenshot shows the 'Machines Groups' dashboard. At the top, there is a search bar and a refresh icon. Below this is a table with columns: Name, IP addresses, Size, Status, Last Restore Point, and Actions. The table contains two rows: 'debian\_server' with IP 172.22.8.87 and size 10.0 GB, and 'pypi-server' with IP 172.22.8.30 and size 100.0 GB. Both are in 'Protected' status. There are 'Add' and 'Bulk actions' buttons at the bottom left. At the bottom right, it says 'Showing 1 to 2 of 2 rows'.

Name	IP addresses	Size	Status	Last Restore Point	Actions
debian_server	172.22.8.87	10.0 GB	Protected	07/28/2018 10:48 AM	...
pypi-server	172.22.8.30	100.0 GB	Protected	07/28/2018 10:55 AM	...

- Click on the 'Download agents' button in the main menu, select a customer for which machines need to be replicated and download a replication agent.

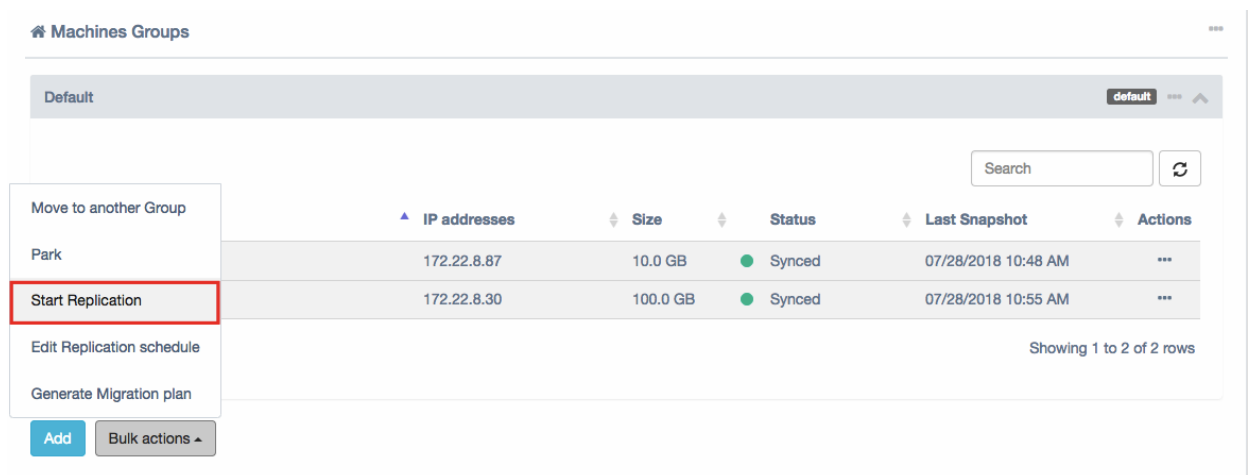


There are three types of replication agents:

- 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.** Please refer to [https://hystax.com/documentation/live-cloud-migration/devices\\_protection.html#install-vmware-agents](https://hystax.com/documentation/live-cloud-migration/devices_protection.html#install-vmware-agents).
- Windows agent – an internal agent which can be deployed to any number of customer Windows virtual or physical machines. Please refer to [https://hystax.com/documentation/live-cloud-migration/devices\\_protection.html#install-windows-and-linux-agents](https://hystax.com/documentation/live-cloud-migration/devices_protection.html#install-windows-and-linux-agents) and Operating Systems compatibility matrix available at <https://hystax.com/support/>.
- Linux agent – an internal agent which can be deployed to any number of customer Linux virtual or physical machines. Please refer to [https://hystax.com/documentation/live-cloud-migration/devices\\_protection.html#install-windows-and-linux-agents](https://hystax.com/documentation/live-cloud-migration/devices_protection.html#install-windows-and-linux-agents) and Operating Systems Compatibility Matrix available at <https://hystax.com/support/>.



4. 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.
5. To start replication of machines, select the machines and click 'Start replication' under 'Bulk actions' or for any of the machines specifically. After 'Start replication' is performed, machines will be replicated to a target cloud, first, Hystax Acura takes full replica and, later, incremental replicas according to a schedule set globally for all the machines or for any group of machines or for any machines specifically.



Machines Groups

Default

Search

Move to another Group

Park

**Start Replication**

Edit Replication schedule

Generate Migration plan

Add Bulk actions

IP addresses	Size	Status	Last Snapshot	Actions
172.22.8.87	10.0 GB	Synced	07/28/2018 10:48 AM	...
172.22.8.30	100.0 GB	Synced	07/28/2018 10:55 AM	...

Showing 1 to 2 of 2 rows

6. To change replication schedule, navigate to Replication schedule under a machine settings or Bulk actions. Refer to [https://hystax.com/documentation/disaster-recovery-and-cloud-backup/dr\\_overview.html#edit-replication-schedule](https://hystax.com/documentation/disaster-recovery-and-cloud-backup/dr_overview.html#edit-replication-schedule) for more information on configuring the settings.

## RUN MIGRATION FLOW

7. Migration is based on Migration Plans which are scenarios of what need to be migrated and in what order. Refer to [https://hystax.com/documentation/disaster-recovery-and-cloud-backup/dr\\_overview.html#disaster-recovery-plans](https://hystax.com/documentation/disaster-recovery-and-cloud-backup/dr_overview.html#disaster-recovery-plans) for more information about Migration Plans.

To create a Migration Plan click Add on Migration Plans region.

## Migration plans

<input type="checkbox"/>	Name	Actions
<input type="checkbox"/>	main_plan	<button>Edit</button> <button>Delete</button>

Selected rows count: 0 Showing 1 to 1 of 1 rows

Add Run migration

- While creating a Migration Plan orchestration is available under Basic and Expert modes. Basic mode helps to generate a plan with standard settings, expert mode is a JSON script with more powerful settings described under [https://hystax.com/documentation/disaster-recovery-and-cloud-backup/dr\\_overview.html#dr-plan-syntax](https://hystax.com/documentation/disaster-recovery-and-cloud-backup/dr_overview.html#dr-plan-syntax).
- Add all the machines need to be migrated, place them into ranks, set correct IP addresses, networks and boot delays.

Name

main\_plan

Basic Expert

Devices & Ranks

:: Rank 0 – 2 machines

:: debian\_server – m1.small, 1 ports

:: pypi-server – m1.small, 1 ports

Subnets

service

Subnet id

cbf26f33-4e02-4dbf-942b-96de06f

CIDR

192.168.0.0/24

Close Save

10. When the Migration Plan is ready, you can run test or production failovers. To run a migration, select a Migration Plan and click Run Migration.

#### Migration plans

☒

Name

main\_plan

Edit

Delete

Selected rows count: 1

Showing 1 to 1 of 1 rows

Add

Run migration

11. On a third step select a restore point for the migration by selecting Restore point time. For all of the machines selected the closest snapshot in the past will be taken. Click Run Migration to start the process.

#### Cloud Site Name

#### Snapshot time

#### Final Migration plan

Machines

Name	IP Address	Flavor	Rank	Subnet
debian_server		m1.small	0	service
pypi-server		m1.small	0	service

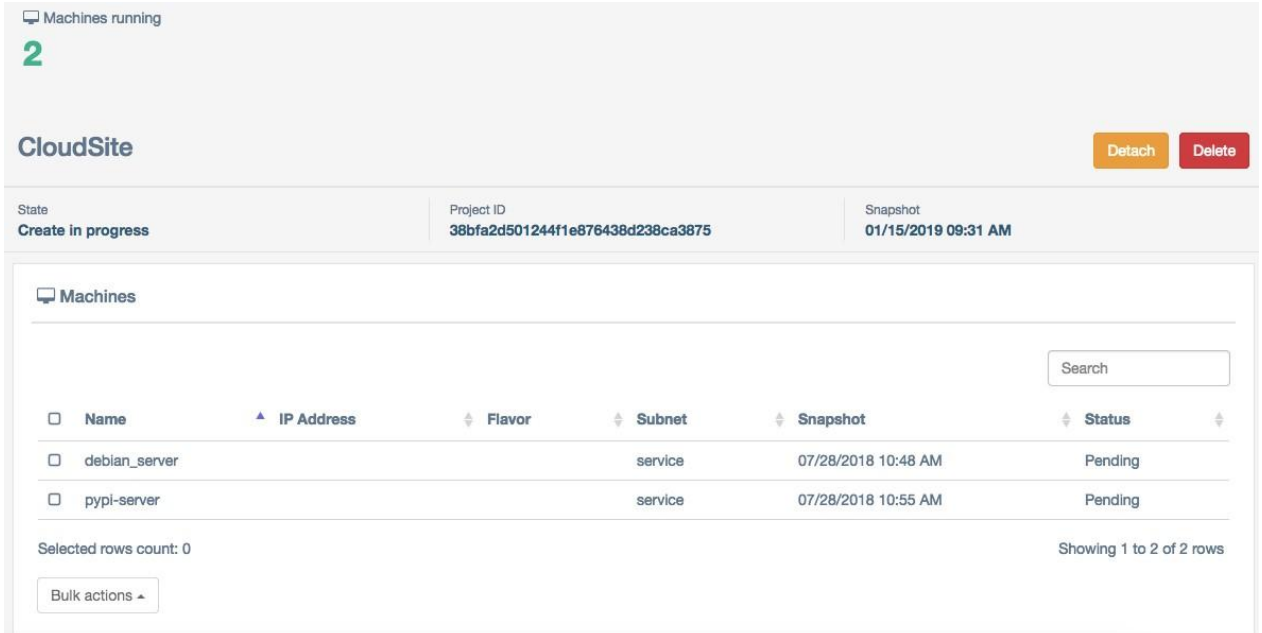
Showing 1 to 2 of 2 rows

Previous

Next

Run migration

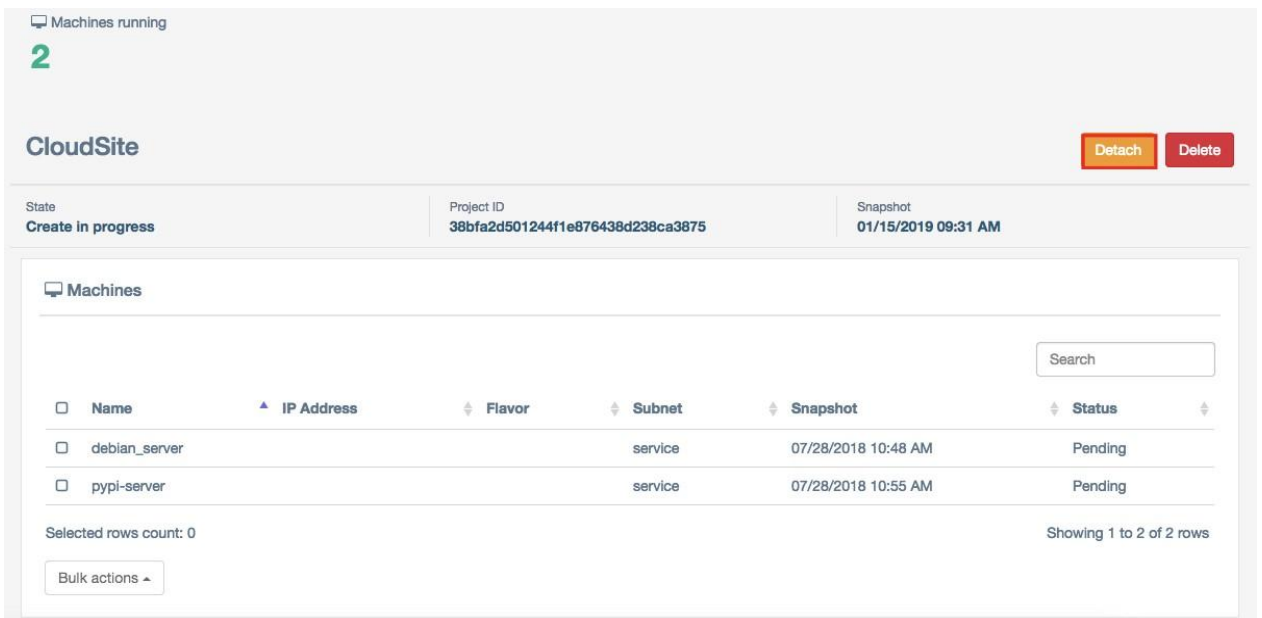
12. When a migration is running you can see and control its status on the Cloud Site page available via customer dashboard.



The screenshot shows the CloudSite dashboard. At the top, it indicates "Machines running" with a green "2". Below this, the "CloudSite" header is visible, along with "Detach" and "Delete" buttons. The main section displays the migration status: "State: Create in progress", "Project ID: 38bfa2d501244f1e876438d238ca3875", and "Snapshot: 01/15/2019 09:31 AM". A table titled "Machines" lists two machines: "debian\_server" and "pypi-server", both with status "Pending". The table has columns for Name, IP Address, Flavor, Subnet, Snapshot, and Status. A search bar is present above the table. At the bottom, it shows "Selected rows count: 0" and "Showing 1 to 2 of 2 rows".

Name	IP Address	Flavor	Subnet	Snapshot	Status
debian_server			service	07/28/2018 10:48 AM	Pending
pypi-server			service	07/28/2018 10:55 AM	Pending

13. When you are done with test migration you can delete it and start a new one. For the final cutover, just detach Hystax Acura from the migration and Hystax Acura will stop tracking any resources belonging to this migration.



This screenshot is identical to the one above, showing the CloudSite dashboard with the migration in progress. It displays the same machine list and status information.

Name	IP Address	Flavor	Subnet	Snapshot	Status
debian_server			service	07/28/2018 10:48 AM	Pending
pypi-server			service	07/28/2018 10:55 AM	Pending

For any questions, refer to <https://hystax.com/support/> or contact the Hystax support team at [support@hystax.com](mailto:support@hystax.com).