

Hystax Acura

Disaster Recovery Step-by-Step Guide



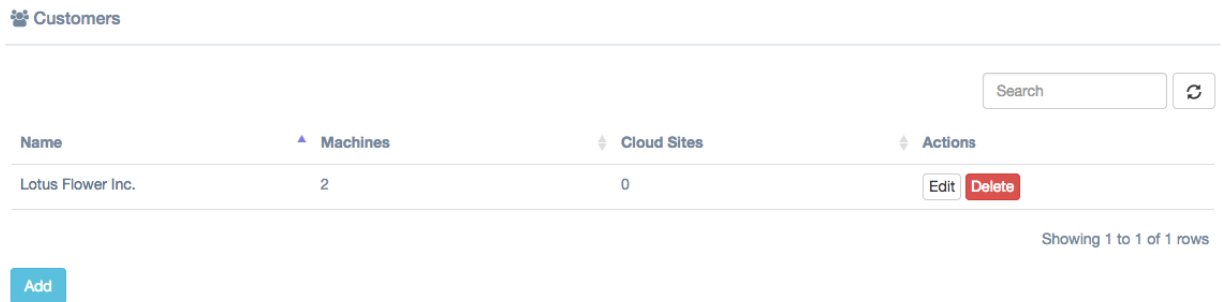


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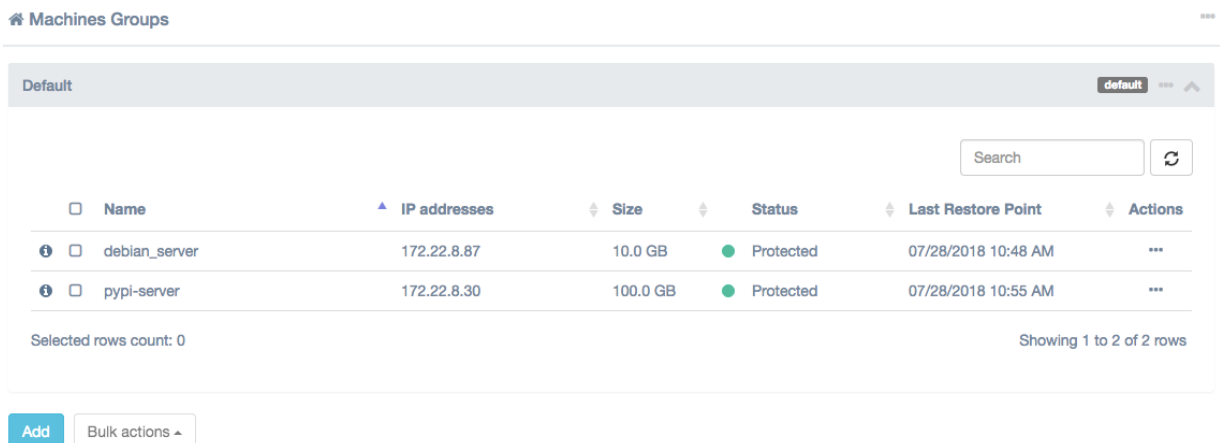
To perform Disaster Recovery you need to complete the following steps:

PROTECTION FLOW

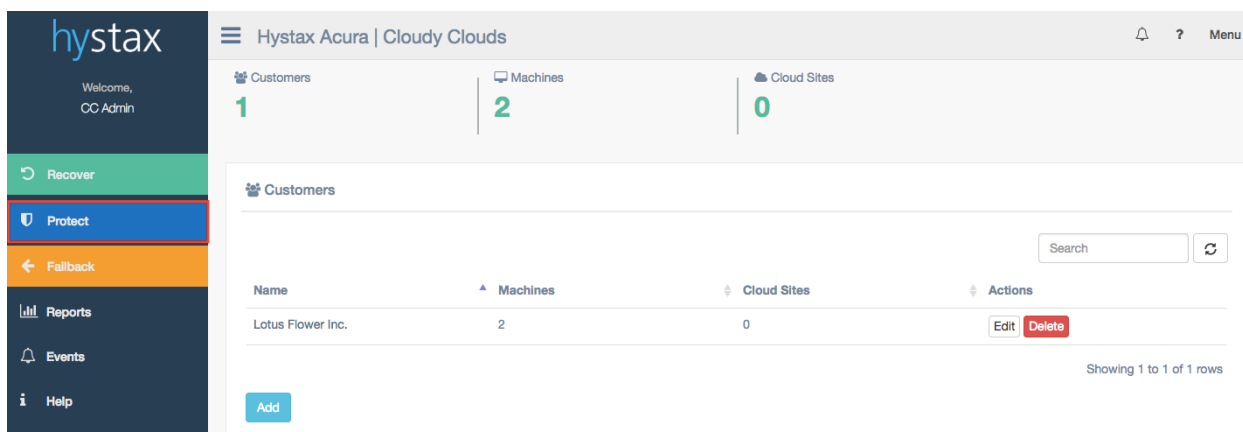
1. Login to the Hystax Acura Control Panel deployed as a part of the solution (refer to <https://hystax.com/resources/> for more information on deployment instructions) and navigate to a customer dashboard for a customer you target to perform Disaster Recovery.



2. On a customer dashboard you can find information about protected machines, DR Plans and failovers running. By default, no resources are available for a new customer.



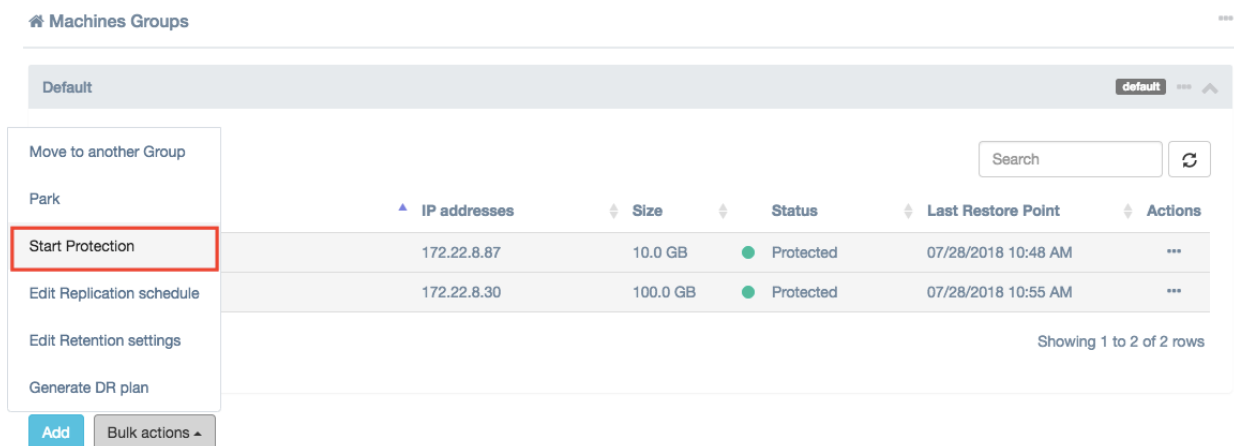
3. Navigate to the 'Protect' flow by clicking the 'Protect' button in the main menu, select a customer for which machines need to be protected and download a replication agent.



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 http://docs.hystax.com/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 http://docs.hystax.com/devices_protection.html#install-windows-and-linux-agents and Operating Systems compatibility matrix available at <https://hystax.com/resources/>.
- Linux agent – an internal agent, which can be deployed to any number of customer Linux virtual or physical machines. Please refer to http://docs.hystax.com/devices_protection.html#install-windows-and-linux-agents and Operating Systems Compatibility Matrix available at <https://hystax.com/resources/>.

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 Unprotected state.
5. To start replication of machines, select the machines and click 'Start Protection' under 'Bulk actions' or for any of the machines specifically. After 'Start Protection' 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.



The screenshot shows the 'Machines Groups' interface. A table lists machines with columns for IP addresses, Size, Status, Last Restore Point, and Actions. The 'Start Protection' button in the Actions column is highlighted with a red box. Below the table, there are buttons for 'Add' and 'Bulk actions'.

IP addresses	Size	Status	Last Restore Point	Actions
172.22.8.87	10.0 GB	Protected	07/28/2018 10:48 AM	Start Protection
172.22.8.30	100.0 GB	Protected	07/28/2018 10:55 AM	Start Protection

6. To change replication schedule (RPO) and retention settings, navigate to Replication schedule or Retention settings under a machine settings or Bulk actions. Refer to http://docs.hystax.com/dr_overview.html#edit-replication-schedule for more information on configuring the settings.

RECOVERY FLOW

7. Recovery is based on Disaster Recovery Plans, which are scenarios of what need to be recovered and in what order in case of failover. Refer to http://docs.hystax.com/dr_overview.html#disaster-recovery-plans for more information about Disaster Recovery Plans.

To create a DR Plan, click Add on DR Plans region.



DR plans

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

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

8. While creating a DR 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 http://docs.hystax.com/dr_overview.html#dr-plan-syntax.

9. Add all the machines that need to be recreated, place them into ranks, set correct IP addresses, networks and boot delays.

Name

Basic

Expert

Devices & Ranks

:: Rank 0 – 2 machines ⋮ ^

:: debian_server – m1.small, 1 ports ⋮ v

:: pypi-server – m1.small, 1 ports ⋮ v

Subnets +

🗑

Subnet id

CIDR



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

DR plans

Search

Name	Actions
<input checked="" type="checkbox"/> main_drplan	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

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

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

Cloud Site Name

Restore point time

Final DR plan

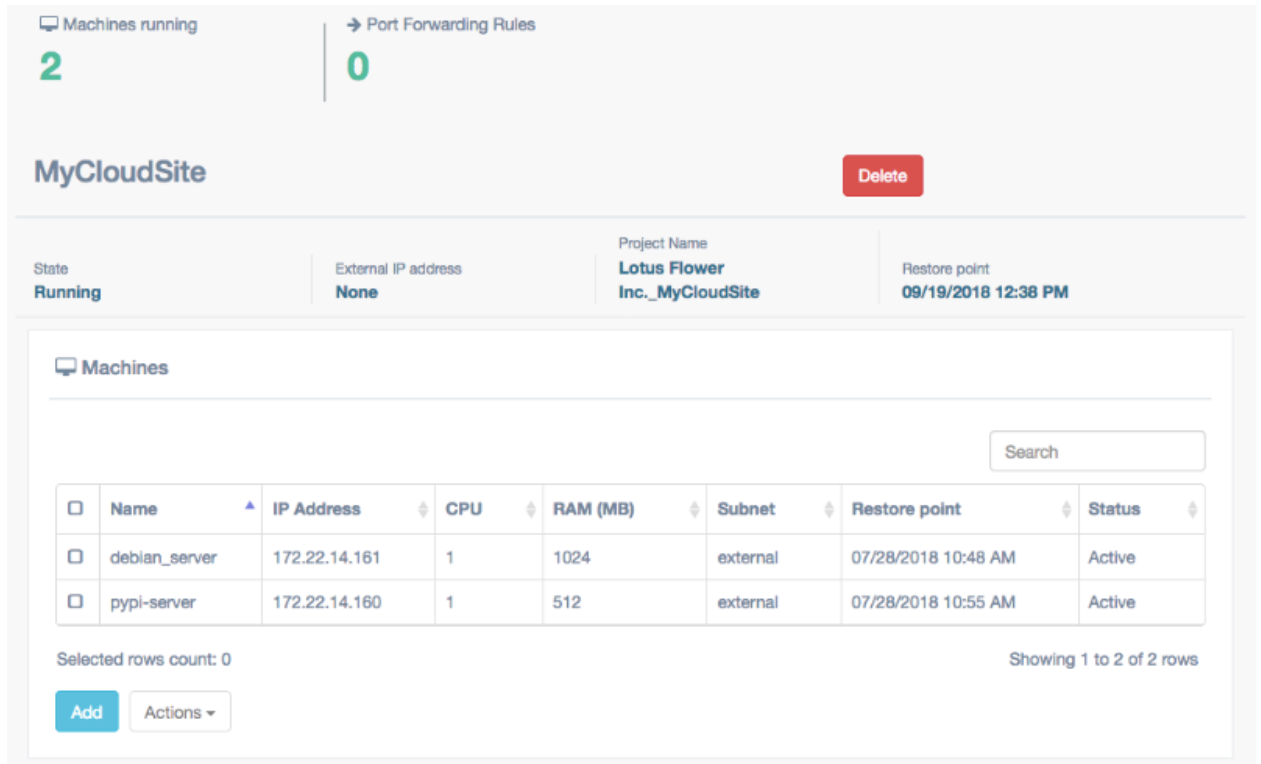
Machines

Search

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

Showing 1 to 2 of 2 rows

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



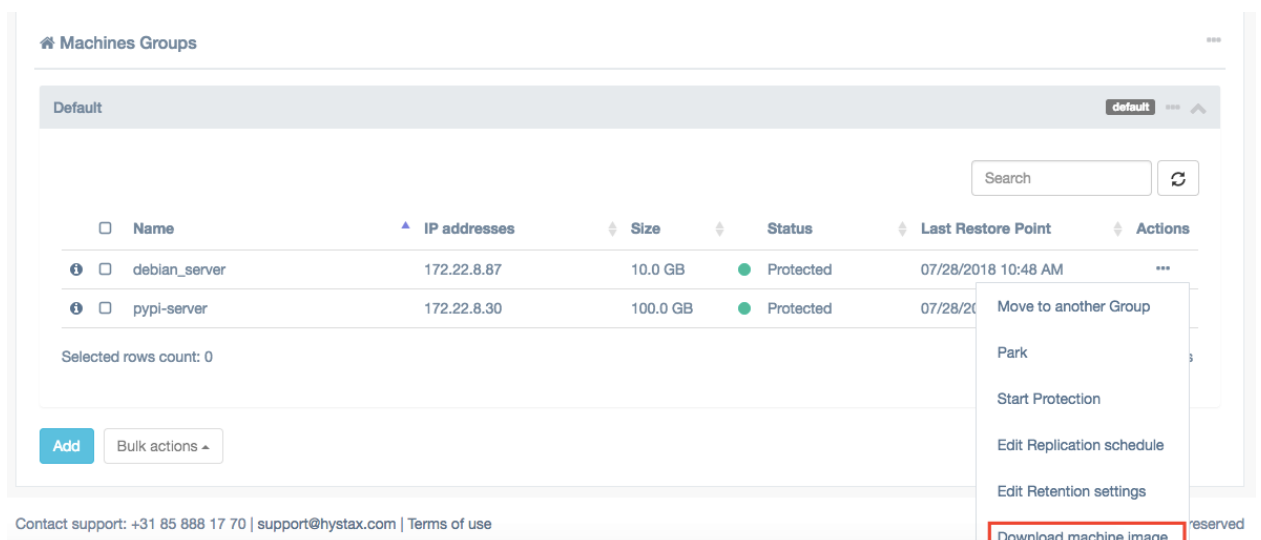
The screenshot shows the 'MyCloudSite' dashboard. At the top, it indicates 'Machines running: 2' and 'Port Forwarding Rules: 0'. Below this, the site name 'MyCloudSite' is displayed with a 'Delete' button. Key site information includes: State: Running, External IP address: None, Project Name: Lotus Flower Inc._MyCloudSite, and Restore point: 09/19/2018 12:38 PM.

The 'Machines' section contains a table with the following data:

Name	IP Address	CPU	RAM (MB)	Subnet	Restore point	Status
debian_server	172.22.14.161	1	1024	external	07/28/2018 10:48 AM	Active
pypi-server	172.22.14.160	1	512	external	07/28/2018 10:55 AM	Active

Below the table, it shows 'Selected rows count: 0' and 'Showing 1 to 2 of 2 rows'. There are 'Add' and 'Actions' buttons at the bottom left of the table area.

13. Image download option is available for any specific machine. Open it by clicking on Download machine image and select a restore point. After generating links, image disks links are available to be downloaded.



The screenshot shows the 'Machines Groups' dashboard. It displays a table of machines with the following data:

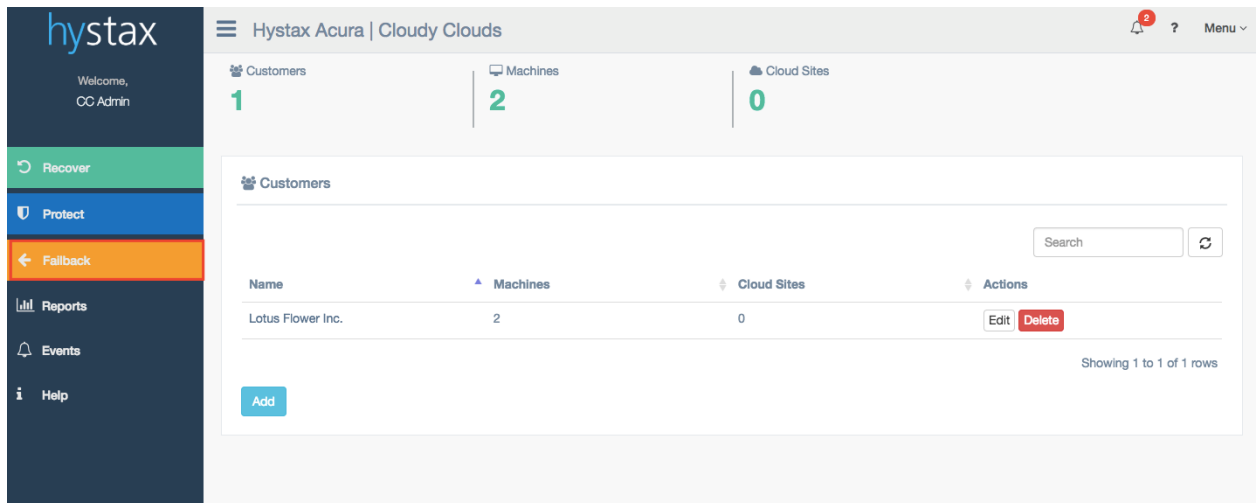
Name	IP addresses	Size	Status	Last Restore Point	Actions
debian_server	172.22.8.87	10.0 GB	Protected	07/28/2018 10:48 AM	...
pypi-server	172.22.8.30	100.0 GB	Protected	07/28/2018 10:55 AM	...

A context menu is open over the 'pypi-server' row, showing the following options: Move to another Group, Park, Start Protection, Edit Replication schedule, Edit Retention settings, and Download machine image. The 'Download machine image' option is highlighted with a red box.

At the bottom of the dashboard, there is an 'Add' button and a 'Bulk actions' dropdown menu. The footer contains contact information: 'Contact support: +31 85 888 17 70 | support@hystax.com | Terms of use'.

FAILBACK FLOW

14. Failback to VMware is available for running failovers. Navigate to failback flow via Failback menu item. Refer to http://docs.hystax.com/dr_overview.html#failback-to-production for more information on Failback flow.



The screenshot shows the Hystax Cloudy Clouds dashboard. The sidebar on the left has the 'Failback' menu item highlighted in orange. The main content area shows a summary of resources: 1 Customer, 2 Machines, and 0 Cloud Sites. Below this is a table for Customers with one entry: Lotus Flower Inc. with 2 Machines and 0 Cloud Sites. The table has columns for Name, Machines, Cloud Sites, and Actions (Edit, Delete). A search bar and an 'Add' button are also visible.

Name	Machines	Cloud Sites	Actions
Lotus Flower Inc.	2	0	Edit Delete

For any questions, refer to <http://docs.hystax.com/index.html> or contact Hystax support team at support@hystax.com.