

Hystax Acura

Installation Guide (OpenStack)





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.

To deploy the Hystax Acura solution, a customer needs to request Hystax (info@hystax.com) for the golden image of the solution and follow the steps described in this document.

Installation requirements

- Mitaka+ version of OpenStack (Red Hat, Canonical, Suse, Mirantis, CentOS and Vanilla distributives are supported).
- Golden image with Hystax Acura (provided by request).
- Resources to launch a virtual machine with 8 vCPUs, 16 GB RAM, 100 GB disk created from the Hystax Acura Golden image.
- Resources to launch a VM with 2 vCPUs, 4 GB RAM, 200 GB SSD for the Hystax Cloud Agent. Created in each target / failover OpenStack project.
- Security groups allowing the following traffic:
 - Hystax Acura host:
 - Ingress – tcp/443
 - Ingress – tcp/4443
 - Ingress – udp/12201
 - Hystax Cloud Agent (spawned automatically in the Target Project):
 - Ingress – tcp/80
 - Ingress - tcp/15000


Installation steps

1. Deploy a virtual machine from the golden image with a key pair attached and launch it in the OpenStack cloud.

Note: Adding a key pair is highly recommended to provide you with SSH access to the machine. Although Hystax Engineering team will be able to perform maintenance checks and troubleshooting (as long as the network is reachable and your security groups allow the corresponding traffic), it is better to have your own means of accessing the Acura instance. Please refer to [OpenStack's official documentation on adding an SSH public-private key pair to VMs](#).

It takes from 10 to 20 minutes for the services to start and the Web UI to become available.

2. Open a web browser and go to https://<ip_address of the machine>/. You will be redirected to the Hystax Setup Wizard. After you perform all the steps, the installation will be complete, and you will be able to start using Hystax Acura.
3. **Step 1:** Enter the organization name and new Hystax Admin User credentials into the Setup Wizard. This will be the user account for logging in to Hystax Acura Control Panel and managing the system. If there are any errors, the system will notify you.



The image shows the Hystax Setup Wizard interface. At the top, the Hystax logo is displayed. Below it, a progress bar shows four steps: Step 1 (Admin user creation), Step 2 (SMTP configuration), Step 3 (Target cloud configuration), and Step 4 (Log in). Step 1 is currently active. The main content area prompts the user to provide their organization name and Hystax Control Panel administrator user credentials. It includes four input fields: Organization*, Admin user login*, Password*, and Confirm password*. Each field has a help icon (question mark) to its right. A 'Next' button is located at the bottom right. At the bottom of the page, there are links for 'Hystax Support Portal', 'Terms of use', and 'Help', along with the copyright notice '© 2020 | Hystax | All rights reserved'.

hystax

1 Step 1 Admin user creation

2 Step 2 SMTP configuration

3 Step 3 Target cloud configuration

4 Step 4 Log in

Please provide your organization name and Hystax Control Panel administrator user credentials to be created.

Organization* ?

Admin user login* ?

Password* ?

Confirm password* ?

Next

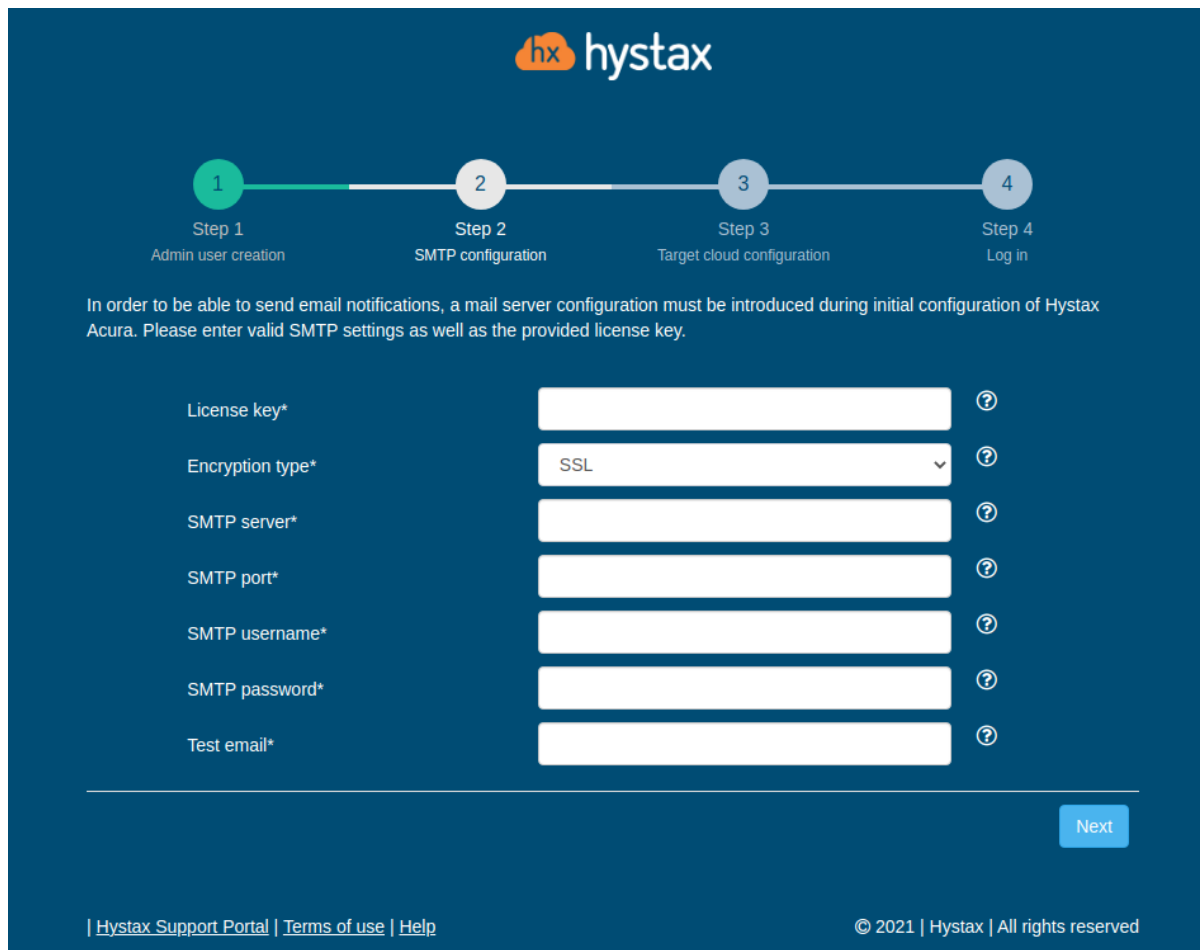
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4. **Step 2:** Fill in your Hystax License key that was supposed to be shared with you in advance as well as the settings for accessing your mail server, which will be used to send notifications from Acura and generate periodic reports.

If you prefer a public SMTP server associated with your email address (gmail, yahoo etc.), please find its settings online. In case of a private SMTP server, contact your network administrator for further details.

A sample notification will be sent to the specified “Test email” to verify the functionality when you click “Next”.

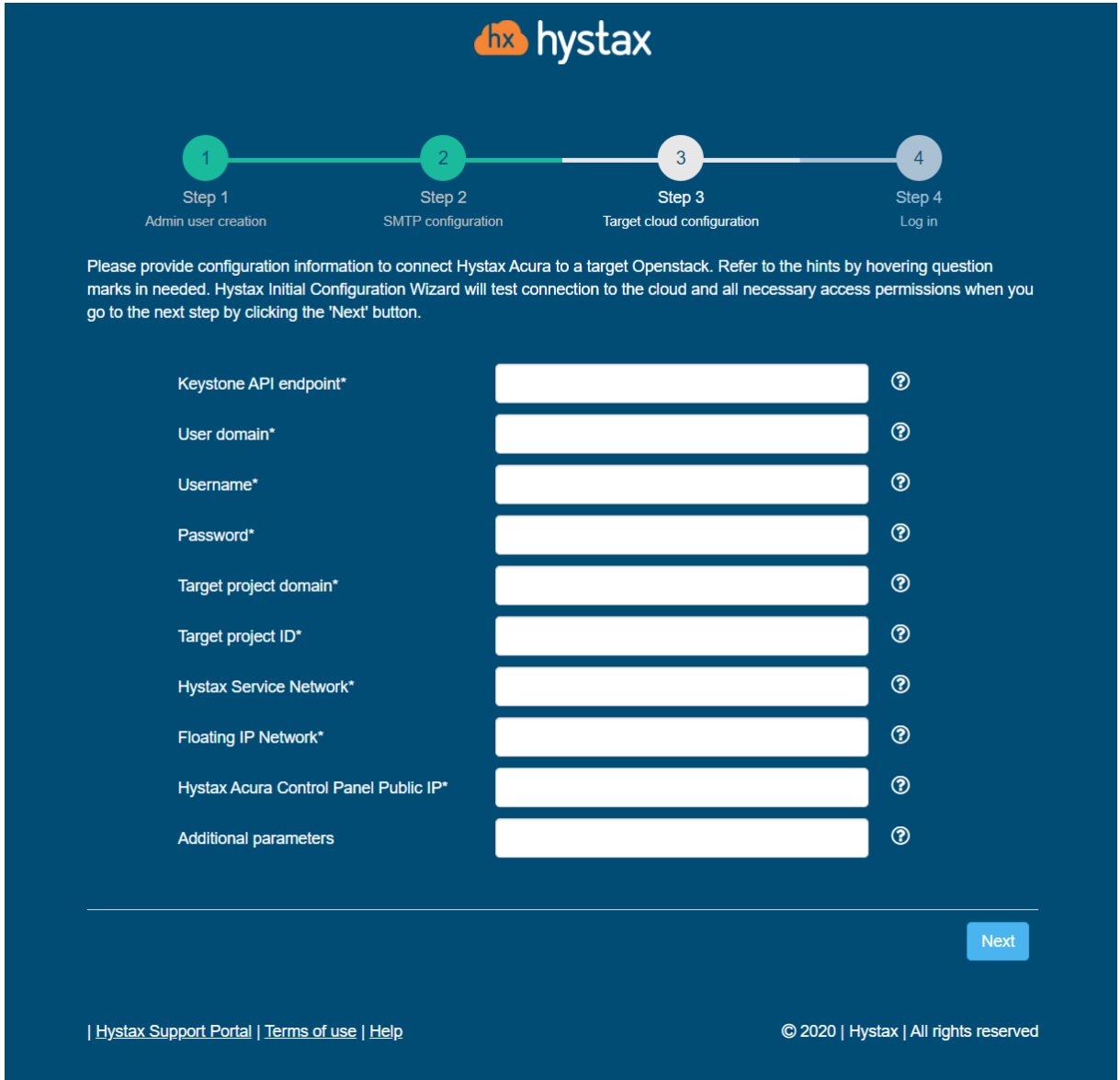


The screenshot shows the Hystax configuration interface. At the top, the Hystax logo is displayed. Below it, a progress bar indicates four steps: Step 1 (Admin user creation), Step 2 (SMTP configuration), Step 3 (Target cloud configuration), and Step 4 (Log in). Step 2 is currently active. Below the progress bar, a message states: "In order to be able to send email notifications, a mail server configuration must be introduced during initial configuration of Hystax Acura. Please enter valid SMTP settings as well as the provided license key." The form contains the following fields:

Field	Value	Help Icon
License key*	<input type="text"/>	?
Encryption type*	SSL	?
SMTP server*	<input type="text"/>	?
SMTP port*	<input type="text"/>	?
SMTP username*	<input type="text"/>	?
SMTP password*	<input type="password"/>	?
Test email*	<input type="text"/>	?

A "Next" button is located at the bottom right of the form. At the bottom of the page, there is a footer with links to "Hystax Support Portal", "Terms of use", and "Help", and a copyright notice: "© 2021 | Hystax | All rights reserved".

5. **Step 3:** Fill in all the fields by providing cloud configuration details. Use question mark icons to get hints on the fields. After you click “Next”, the Setup Wizard will validate the entered data and notify you in case of an error.



The screenshot shows the Hystax Initial Configuration Wizard at Step 3, 'Target cloud configuration'. The wizard has four steps: Step 1 (Admin user creation), Step 2 (SMTP configuration), Step 3 (Target cloud configuration), and Step 4 (Log in). Step 3 is currently active. Below the progress bar, a message states: 'Please provide configuration information to connect Hystax Acura to a target Openstack. Refer to the hints by hovering question marks in needed. Hystax Initial Configuration Wizard will test connection to the cloud and all necessary access permissions when you go to the next step by clicking the 'Next' button.'

The configuration fields are as follows:

Field Label	Input Type	Hint Icon
Keystone API endpoint*	Text input	Question mark
User domain*	Text input	Question mark
Username*	Text input	Question mark
Password*	Text input	Question mark
Target project domain*	Text input	Question mark
Target project ID*	Text input	Question mark
Hystax Service Network*	Text input	Question mark
Floating IP Network*	Text input	Question mark
Hystax Acura Control Panel Public IP*	Text input	Question mark
Additional parameters	Text input	Question mark

A 'Next' button is located at the bottom right of the form area.

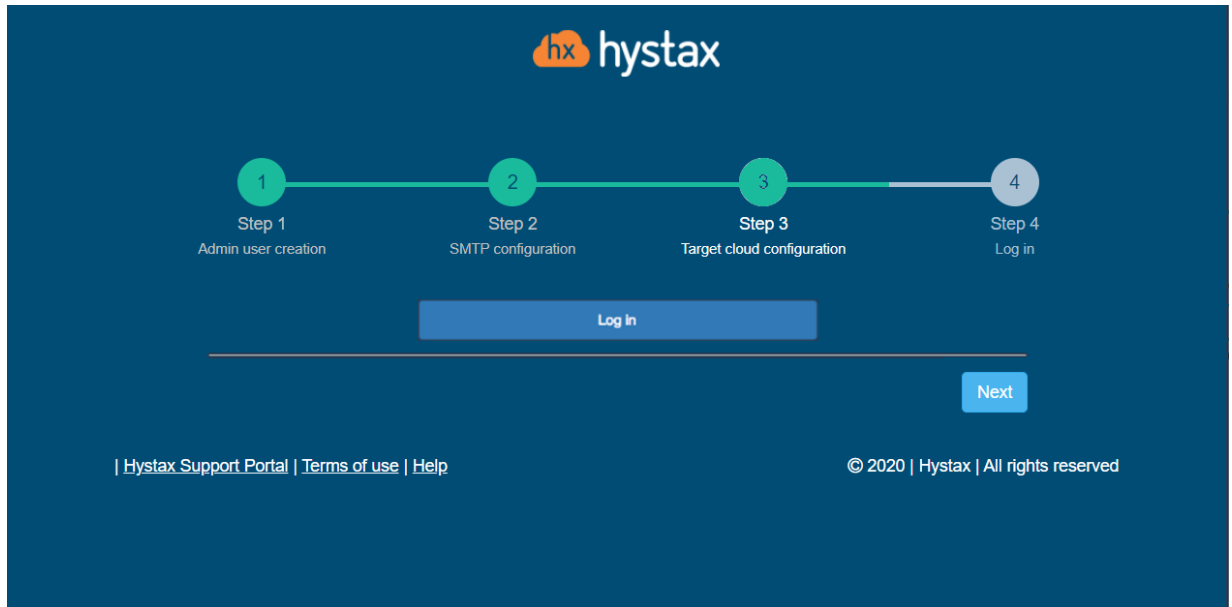
At the bottom of the page, there are links for [Hystax Support Portal](#), [Terms of use](#), and [Help](#). The copyright notice is © 2020 | Hystax | All rights reserved.

Field	Description	Example
Keystone API Endpoint	OpenStack Keystone authentication URL	http://controller.dts.loc:35357/v3
User Domain	User domain name to access OpenStack	default
Username	Username to access OpenStack	admin
Password	Password to access OpenStack	passw
Target Project Domain	Target OpenStack project domain name	default
Target Project Name	Target OpenStack project name where replicated workloads will be spun up	TargetProj
Hystax Service Network	Network that will be used for Hystax Cloud Agent machines. Should be the same or routable to the network in which a Hystax Acura instance is located	provider
Floating IP Network	External network that will be used to attach Floating IPs to migrated machines	provider
Hystax Acura Control Panel Public IP	Public IP that will be used to access the Hystax Control Panel via web browser and by replication agents	192.168.0.10

The specified OpenStack user should have the following rights for Hystax Acura to operate correctly:

- Import image
- Launch instance
- Create volume
- Attach volume to instance
- Detach volume from instance
- Create volume snapshot
- Create volume from snapshot
- Remove snapshot
- Remove volume
- Manage networks

6. **Step 4:** Installation is complete, and you can now log in to the system using credentials entered in the previous step.



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.

Feel free to use the contact details below to reach Hystax Support in case you have any questions or difficulties with the installation process. Hystax Support Portal is available at <https://support.hystax.com/>, which includes all articles from our Knowledge Base. You can also submit support requests in your personal account.

Contacts

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