

Hystax Acura

Installation Guide (Alibaba)



Overview

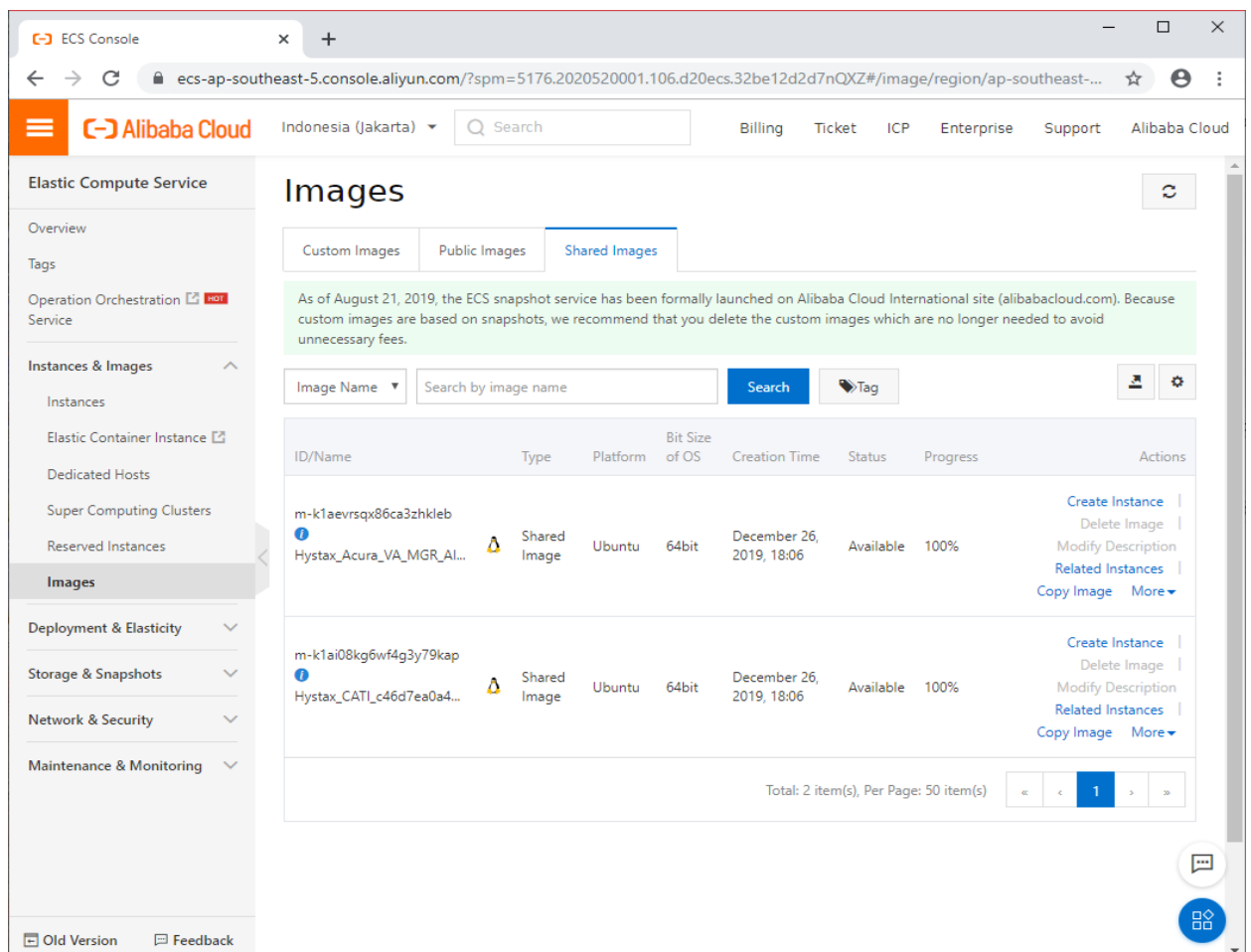
Hystax is a cloud migration and Disaster Recovery company focusing on consistent replication of IT workloads and providing real-time migration and Best-In-Class Disaster Recovery.

To deploy the Hystax Acura solution, a customer needs to request Hystax (info@hystax.com) to provide an AMI **and** a CloudFormation template of the solution and follow the steps described in this document.

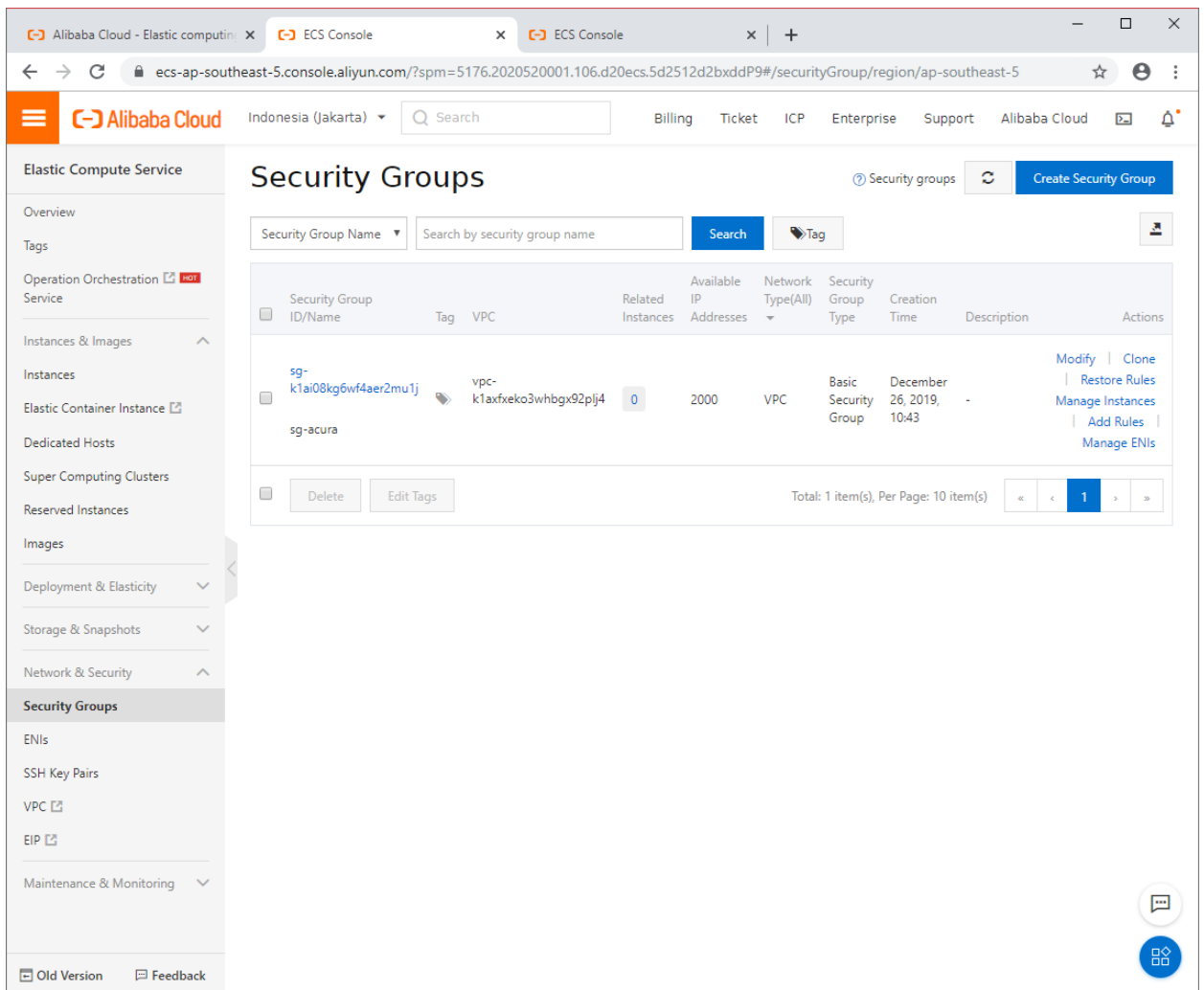
Installation steps

1. Find the shared images in the cloud.

There should be two new images at the “Shared Images” tab: one for Hystax Acura Controller, and one for Hystax Cloud Agent.



2. Create a Security Group for Acura.



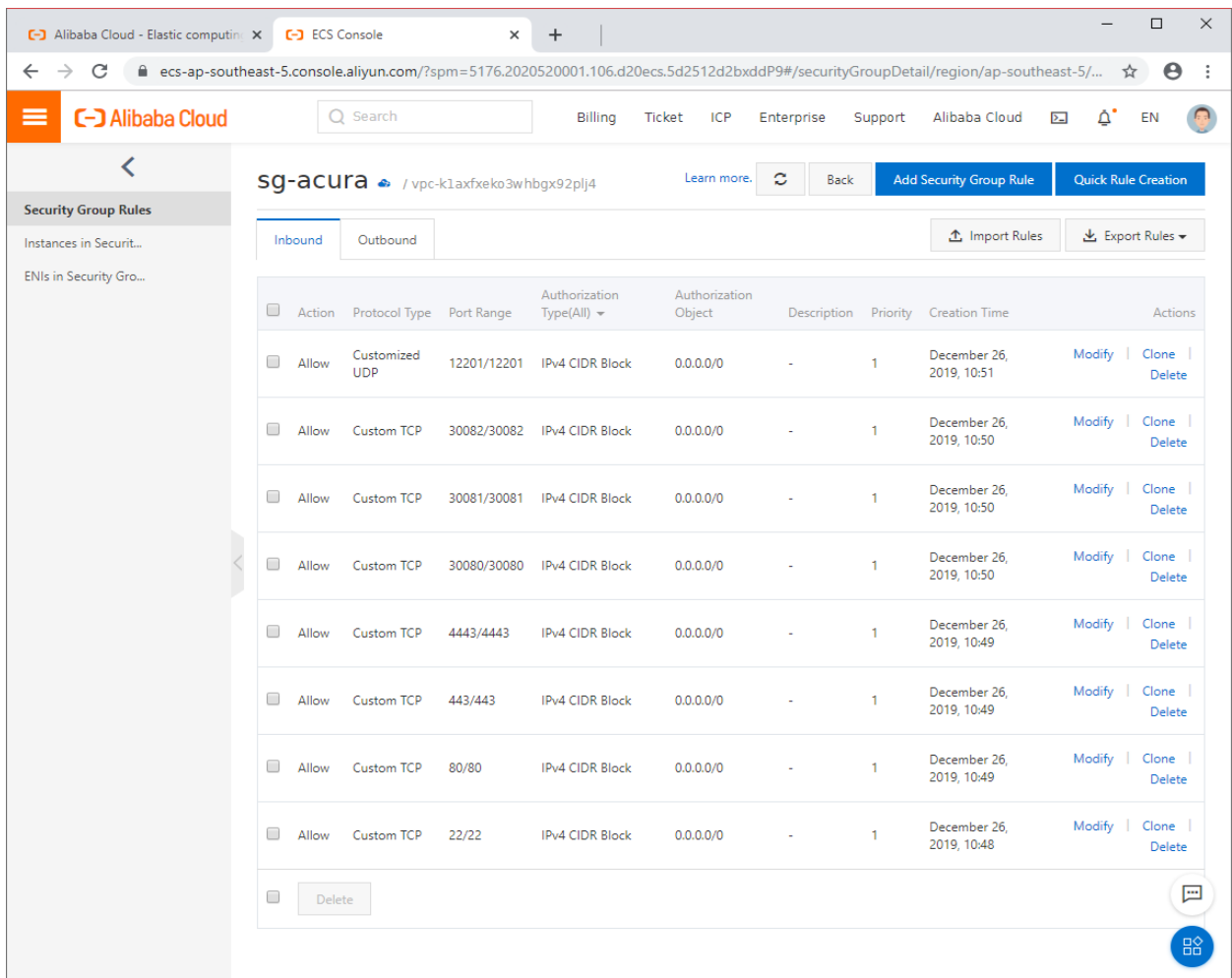
The screenshot shows the Alibaba Cloud ECS Console interface. The left sidebar contains the navigation menu with categories like Elastic Compute Service, Tags, Operation Orchestration Service, Instances & Images, and Network & Security. The 'Security Groups' option is selected under Network & Security. The main panel displays the 'Security Groups' page with a search bar and a table of existing security groups.

Security Group ID/Name	Tag	VPC	Related Instances	Available IP Addresses	Network Type(All)	Security Group Type	Creation Time	Description	Actions
sg-k1ai08kg6wf4aer2mu1j		vpc-k1afxeko3whbgx92plj4	0	2000	VPC	Basic Security Group	December 26, 2019, 10:43	-	Modify Clone Restore Rules Manage Instances Add Rules Manage ENIs
sg-acura									

At the bottom of the table, there are buttons for 'Delete' and 'Edit Tags'. The pagination shows 'Total: 1 item(s), Per Page: 10 item(s)' with a page number '1' selected.

This SG should allow incoming traffic at the following ports:

- **tcp:** 22, 80, 443, 4443, 30080, 30081, 30082
- **udp:** 12201



The screenshot shows the Alibaba Cloud ECS Console interface. The main content area displays the 'Security Group Rules' for a security group named 'sg-acura'. The page has a sidebar on the left with navigation options like 'Security Group Rules', 'Instances in Security Group', and 'ENIs in Security Group'. The main area has tabs for 'Inbound' and 'Outbound' rules. Below the tabs is a table of rules. The table has columns: Action, Protocol Type, Port Range, Authorization Type, Authorization Object, Description, Priority, Creation Time, and Actions. There are 8 rules listed, all with 'Allow' action. The rules are for various protocols (Customized UDP, Custom TCP) and port ranges (12201/12201, 30082/30082, 30081/30081, 30080/30080, 4443/4443, 443/443, 80/80, 22/22). The Authorization Type is 'IPv4 CIDR Block' and the Authorization Object is '0.0.0.0/0'. The Description is '-' and the Priority is 1. The Creation Time is 'December 26, 2019, 10:51' for the first rule and 'December 26, 2019, 10:48' for the last rule. The Actions column has links for 'Modify', 'Clone', and 'Delete' for each rule.

Action	Protocol Type	Port Range	Authorization Type	Authorization Object	Description	Priority	Creation Time	Actions
Allow	Customized UDP	12201/12201	IPv4 CIDR Block	0.0.0.0/0	-	1	December 26, 2019, 10:51	Modify Clone Delete
Allow	Custom TCP	30082/30082	IPv4 CIDR Block	0.0.0.0/0	-	1	December 26, 2019, 10:50	Modify Clone Delete
Allow	Custom TCP	30081/30081	IPv4 CIDR Block	0.0.0.0/0	-	1	December 26, 2019, 10:50	Modify Clone Delete
Allow	Custom TCP	30080/30080	IPv4 CIDR Block	0.0.0.0/0	-	1	December 26, 2019, 10:50	Modify Clone Delete
Allow	Custom TCP	4443/4443	IPv4 CIDR Block	0.0.0.0/0	-	1	December 26, 2019, 10:49	Modify Clone Delete
Allow	Custom TCP	443/443	IPv4 CIDR Block	0.0.0.0/0	-	1	December 26, 2019, 10:49	Modify Clone Delete
Allow	Custom TCP	80/80	IPv4 CIDR Block	0.0.0.0/0	-	1	December 26, 2019, 10:49	Modify Clone Delete
Allow	Custom TCP	22/22	IPv4 CIDR Block	0.0.0.0/0	-	1	December 26, 2019, 10:48	Modify Clone Delete

3. Create an Acura VM.

Press “Create Instance” on the Acura’s image and proceed through the wizard.

Required settings for the VM:

- A flavor with at least 2 CPUs and 8 GB RAM.
- Disk size should be at least 100 GB.
- Assign a public IP address with maximum possible bandwidth. This IP will be used to receive replication data.
- Choose the Acura security group you have created earlier.

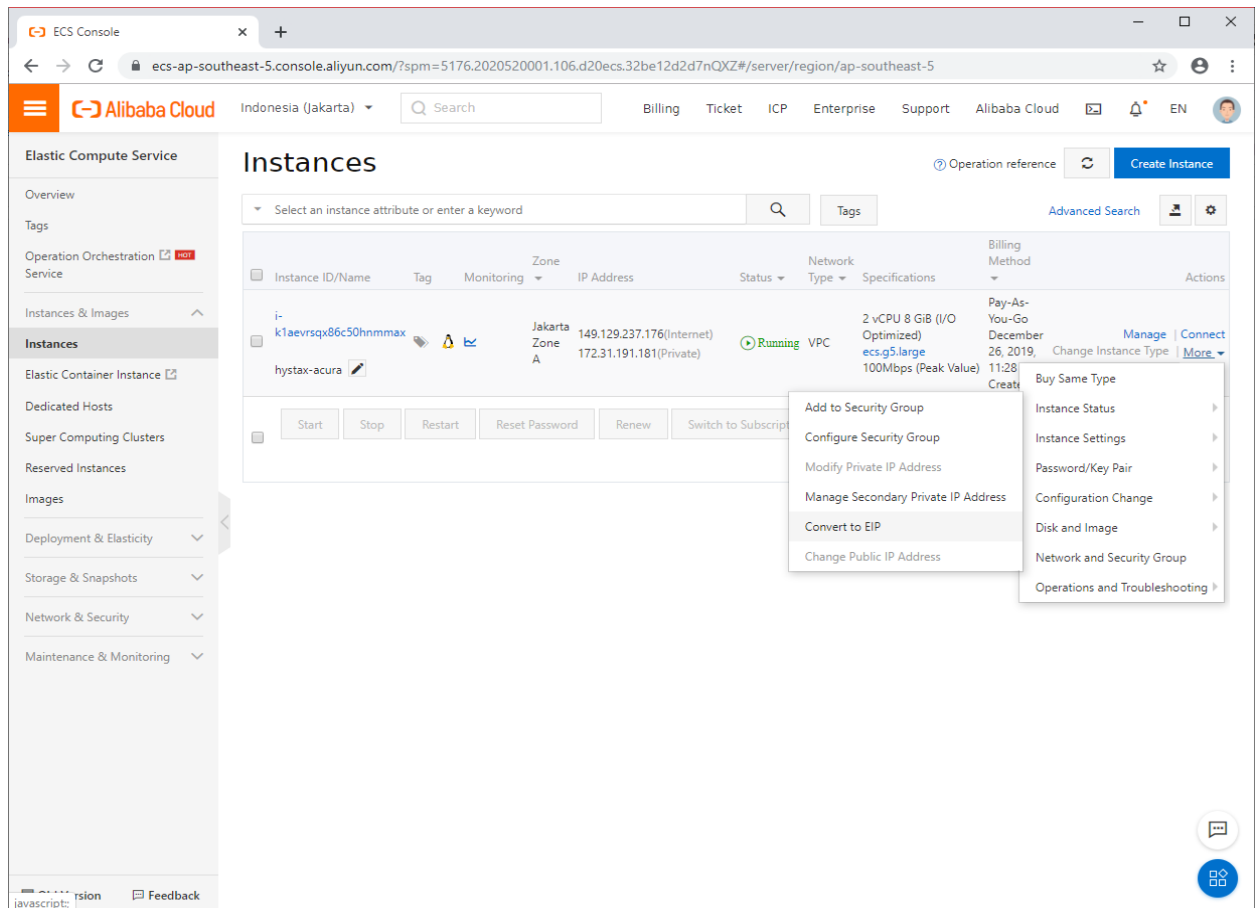
Note: Adding a key pair during Acura’s deployment is highly recommended to provide you with SSH access to the machine. Although Hystax Engineering team will be able to perform maintenance checks and troubleshooting (as long as the network is reachable and your security groups allow the corresponding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

There is no need to create a Cloud Agent instance – only Acura instance is required. Acura will spawn and remove Cloud Agent instances automatically.

4. Convert a Public IP to an Elastic IP for Acura instance.

Acura instance requires a fixed public IP.

Find your freshly created instance, click “More → Network and Security Group → Convert to EIP”. This will make it a fixed IP that will not be released if the instance is stopped.



5. Pass Acura's initial configuration.

Once the VM is started, wait approximately 20 minutes for it to boot up, then open its EIP in a web browser. Please accept the certificate warnings so that you are redirected to the initial configuration page.

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 screenshot shows the Hystax initial configuration wizard. At the top, the Hystax logo (hx hystax) 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. Below the progress bar, a message reads: "Please provide your organization name and Hystax Control Panel administrator user credentials to be created." There are four input fields: "Organization*", "Admin user login*", "Password*", and "Confirm password*", each with a question mark icon to its right. A "Next" button is located at the bottom right of the form. At the bottom of the page, there are links for "Hystax Support Portal", "Terms of use", and "Help", and a copyright notice: "© 2020 | Hystax | All rights reserved".

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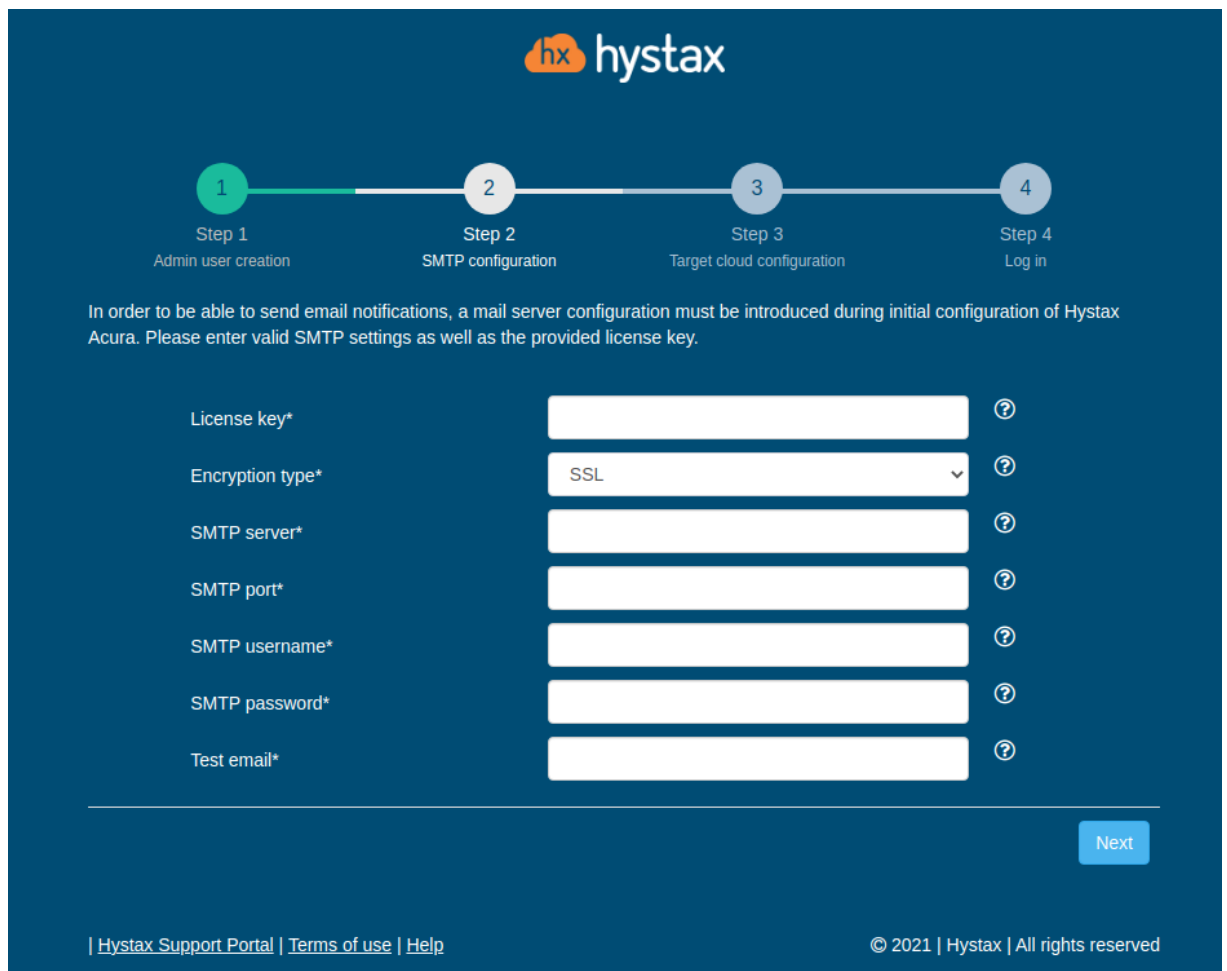
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Step 2: Fill in your Hystax License key that was supposed to be shared with you in advance as well as the settings for accessing your mail server, which will be used to send notifications from Acura and generate periodic reports.

Note: SMTP server with TLS/SSL encryption is required to proceed with deployment

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 image shows the Hystax SMTP 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. 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 are links for "Hystax Support Portal", "Terms of use", and "Help", along with the copyright notice "© 2021 | Hystax | All rights reserved".

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.

hx hystax

Step 1 Admin user creation Step 2 SMTP configuration **Step 3 Target cloud configuration** Step 4 Log in

Please provide configuration information to connect Hystax Acura to a target Alibaba. 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.

Region*	<input type="text"/>	?
Cloud agent image ID*	<input type="text"/>	?
Security group*	<input type="text"/>	?
Availability zone*	<input type="text"/>	?
VSwitch ID*	<input type="text"/>	?
Access key ID*	<input type="text"/>	?
Secret access key*	<input type="text"/>	?
Hystax Acura Control Panel Public IP*	<input type="text"/>	?
Additional parameters	<input type="text"/>	?

[Next](#)

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- **Region** – the region ID you’ve deployed Acura to. You can find a list of region IDs in Alibaba’s documentation.
- **Cloud Agent image ID** – an ID of Cloud Agent image.
- **Security group** – the Acura security group ID you have created earlier.
- **Availability zone** – the zone ID you’ve deployed Acura to.
- **VSwitchID** – the VSwitch ID Acura instance is connected to.
- **Access key ID** and **Secret Access Key** – cloud API credentials. They can be obtained by hovering over your avatar in cloud interface and clicking “AccessKey”.

Click “Next” to start cloud validation.

Step 4: Once the validation is complete, click on the “Log in” button, and log into Acura Control Panel. Accept the certificate warnings if needed.



Congratulations, you are now ready to use Acura!

Troubleshooting

Hystax Acura automatically checks cloud access and 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 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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