

# Hystax Acura

## Installation Guide (Alibaba)



## Overview

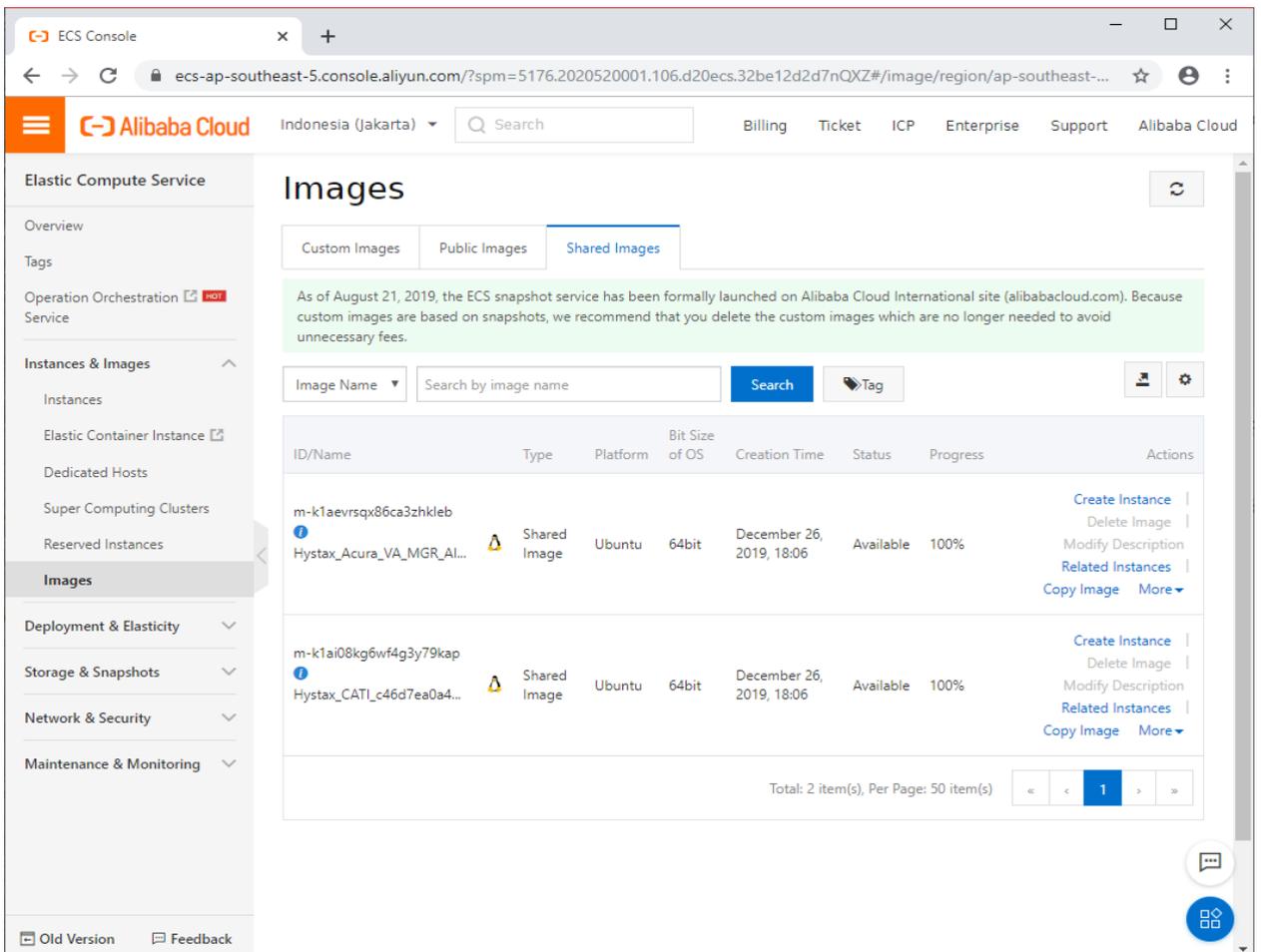
Hystax is a cloud migration and Disaster Recovery company focusing on consistent replication of IT workloads and providing real-time migration and Best-In-Class Disaster Recovery.

To deploy the Hystax Acura solution, a customer needs to request Hystax ([info@hystax.com](mailto: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.

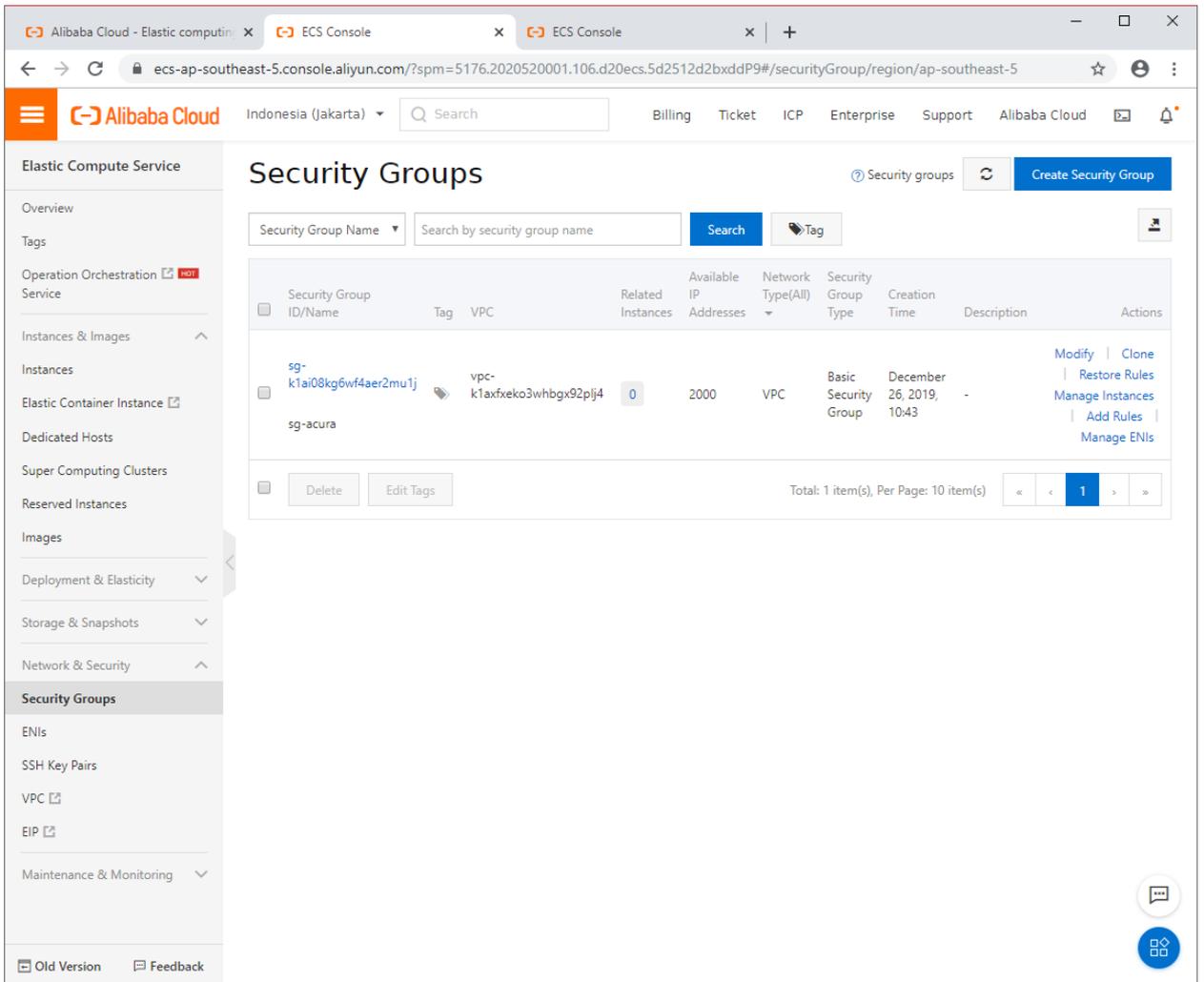


The screenshot shows the Alibaba Cloud ECS Console interface. The 'Images' page is active, with the 'Shared Images' tab selected. A notification banner at the top states: "As of August 21, 2019, the ECS snapshot service has been formally launched on Alibaba Cloud International site (alibabacloud.com). Because custom images are based on snapshots, we recommend that you delete the custom images which are no longer needed to avoid unnecessary fees." Below the notification, there is a search bar for image names. The main content area displays a table of shared images:

ID/Name	Type	Platform	Bit Size of OS	Creation Time	Status	Progress	Actions
m-k1aevrsqx86ca3zhkleb Hystax_Acura_VA_MGR_AI...	Shared Image	Ubuntu	64bit	December 26, 2019, 18:06	Available	100%	Create Instance   Delete Image   Modify Description   Related Instances   Copy Image   More
m-k1ai08kg6wrf4g3y79kap Hystax_CATI_c46d7ea0a4...	Shared Image	Ubuntu	64bit	December 26, 2019, 18:06	Available	100%	Create Instance   Delete Image   Modify Description   Related Instances   Copy Image   More

At the bottom of the table, it indicates "Total: 2 item(s), Per Page: 50 item(s)" and a pagination control showing page 1 of 1.

## 2. Create a Security Group for Acura.



The screenshot shows the Alibaba Cloud ECS Console interface. The main content area is titled "Security Groups" and features a search bar and a "Create Security Group" button. Below this is a table listing the security groups. The table has columns for Security Group ID/Name, Tag, VPC, Related Instances, Available IP Addresses, Network Type(All), Security Group Type, Creation Time, Description, and Actions.

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		<a href="#">Modify</a>   <a href="#">Clone</a> <a href="#">Restore Rules</a> <a href="#">Manage Instances</a> <a href="#">Add Rules</a>   <a href="#">Manage ENIs</a>

At the bottom of the table, there are buttons for "Delete" and "Edit Tags", and a pagination summary: "Total: 1 item(s), Per Page: 10 item(s)".

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 the security group 'sg-acura'. The 'Inbound' tab is selected, showing a list of rules. The table has the following columns: Action, Protocol Type, Port Range, Authorization Type, Authorization Object, Description, Priority, and Creation Time. There are 9 rules listed, all with 'Allow' action and 'IPV4 CIDR Block' authorization type. The first rule is for Customized UDP on port 12201/12201. The other rules are for Custom TCP on various ports (30082/30082, 30081/30081, 30080/30080, 4443/4443, 443/443, 80/80, 22/22). Each rule has 'Modify', 'Clone', and 'Delete' actions available.

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.

The screenshot shows the Alibaba Cloud ECS Console interface. The main content area displays a table of instances. The instance 'hystax-acura' is highlighted, and a context menu is open over it. The menu options include 'Add to Security Group', 'Configure Security Group', 'Modify Private IP Address', 'Manage Secondary Private IP Address', 'Convert to EIP', and 'Change Public IP Address'. The 'Convert to EIP' option is selected.

Instance ID/Name	Tag	Monitoring	Zone	IP Address	Status	Network Type	Specifications	Billing Method	Actions
i-k1aevrsqx86c50hnmmax			Jakarta Zone A	149.129.237.176(Internet) 172.31.191.181(Private)	Running	VPC	2 vCPU 8 GiB (I/O Optimized) ecs.g5.large 100Mbps (Peak Value)	Pay-As-You-Go December 26, 2019, 11:28 Create	Manage   Connect   Change Instance Type   More

## 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.

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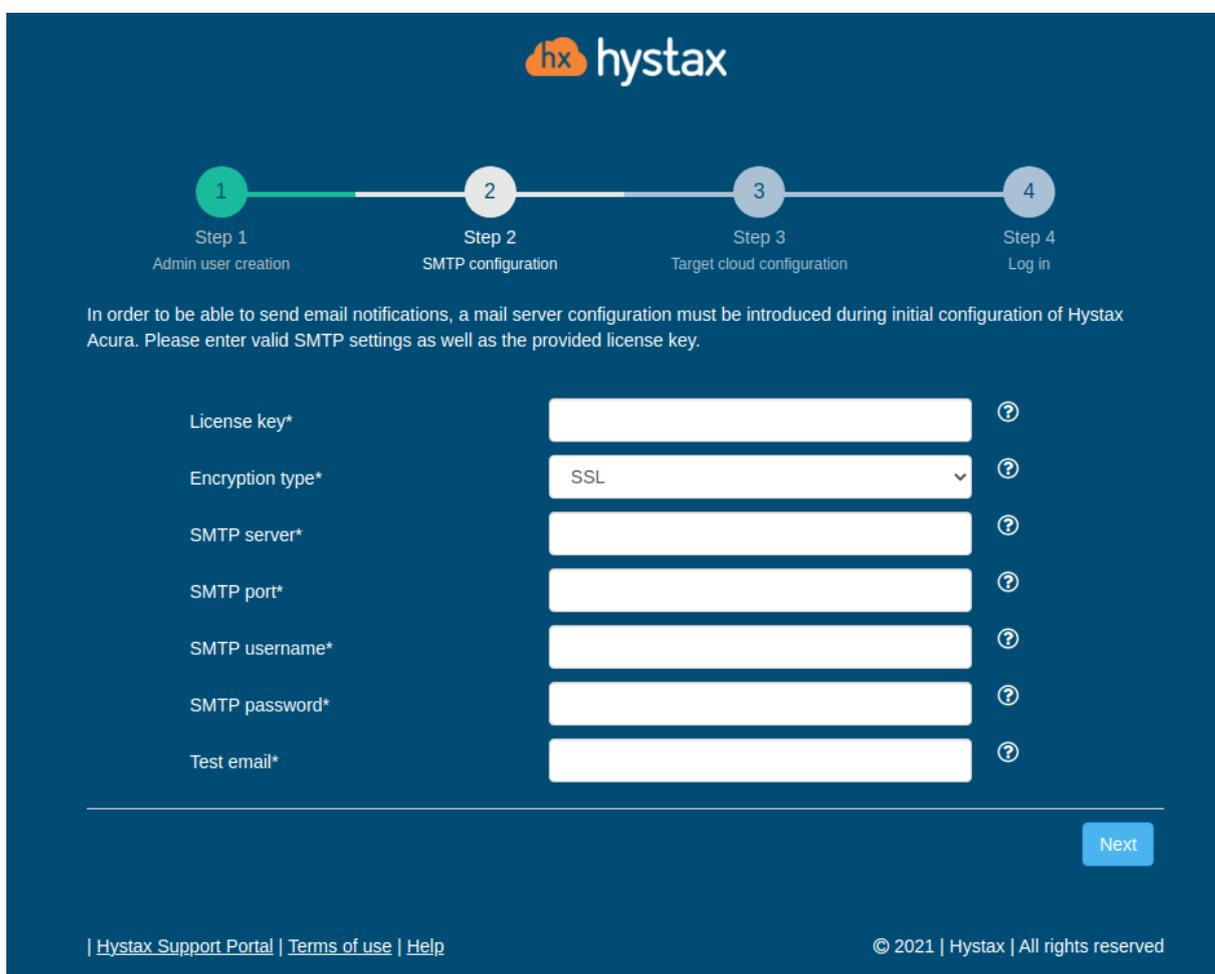
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**Step 2:** Fill in your Hystax License key that was supposed to be shared with you in advance as well as the settings for accessing your mail server, which will be used to send notifications from Acura and generate periodic reports.

**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 screenshot displays the Hystax configuration interface. At the top, the Hystax logo is visible. 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 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 configuration form includes the following fields:

Field Name	Value / Type	Help Icon
License key*	<input type="text"/>	?
Encryption type*	SSL (dropdown)	?
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

1 Step 1 Admin user creation

2 Step 2 SMTP configuration

3 Step 3 Target cloud configuration

4 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\*  ?

Cloud agent image ID\*  ?

Security group\*  ?

Availability zone\*  ?

VSwitch ID\*  ?

Access key ID\*  ?

Secret access key\*  ?

Hystax Acura Control Panel Public IP\*  ?

Additional parameters  ?

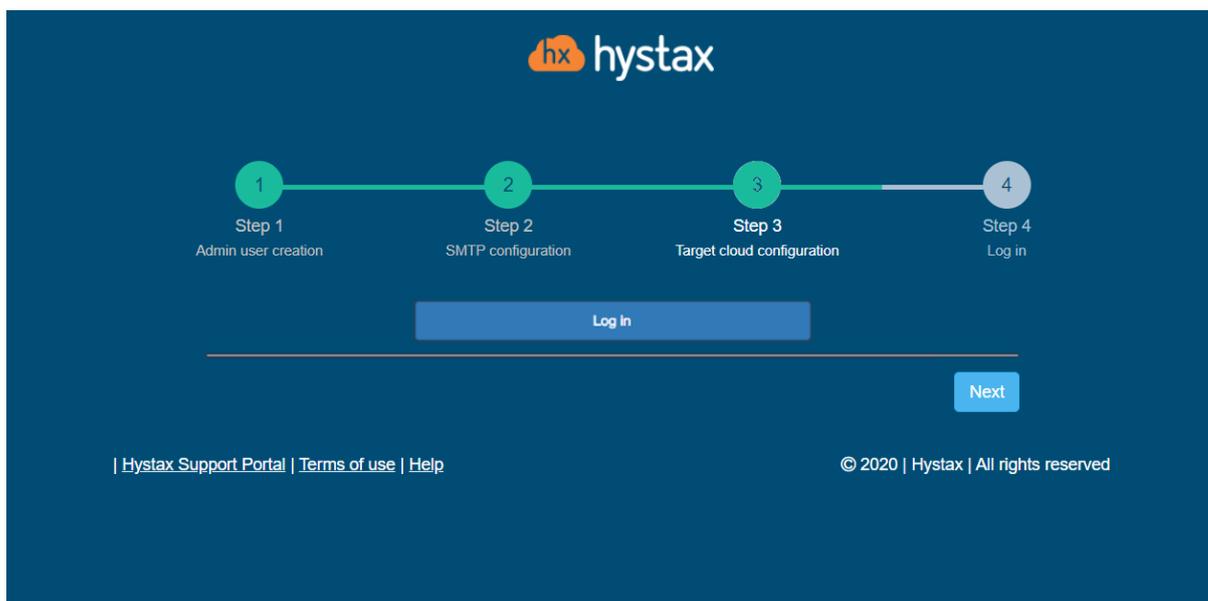
Next

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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

Email: [support@hystax.com](mailto:support@hystax.com)

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