

Hystax Acura

Installation Guide (GCP)



Overview

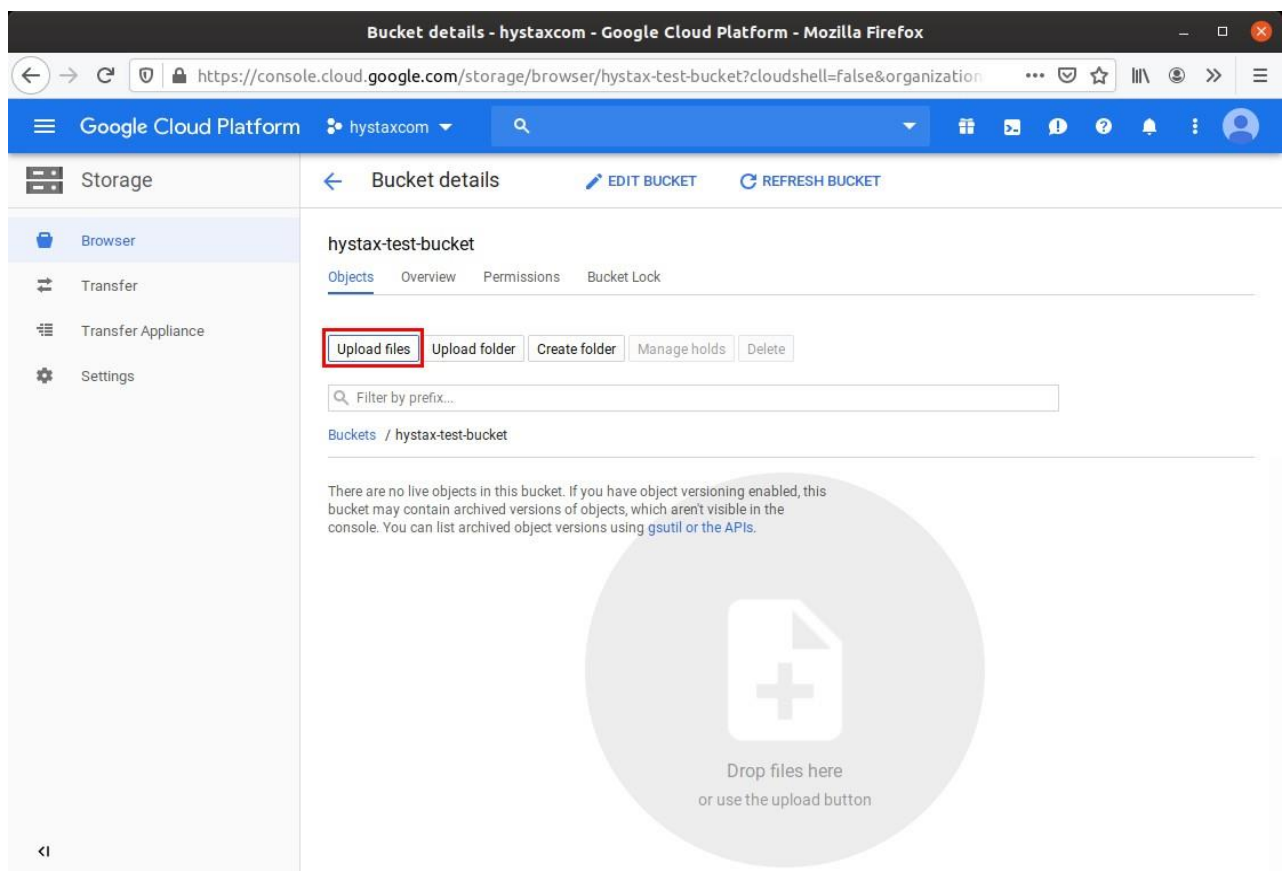
Hystax is a cloud migration and Disaster Recovery company focusing on consistent replication of IT workloads and providing real-time migration and Best-In-Class Disaster Recovery.

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

Installation steps

1. Upload Acura and Cloud Agent images to the cloud.

Download Acura and Cloud Agent archives provided by Hystax. Go to “Storage → Browser” section in GCP UI and open one of your buckets. Create one if there are no buckets.

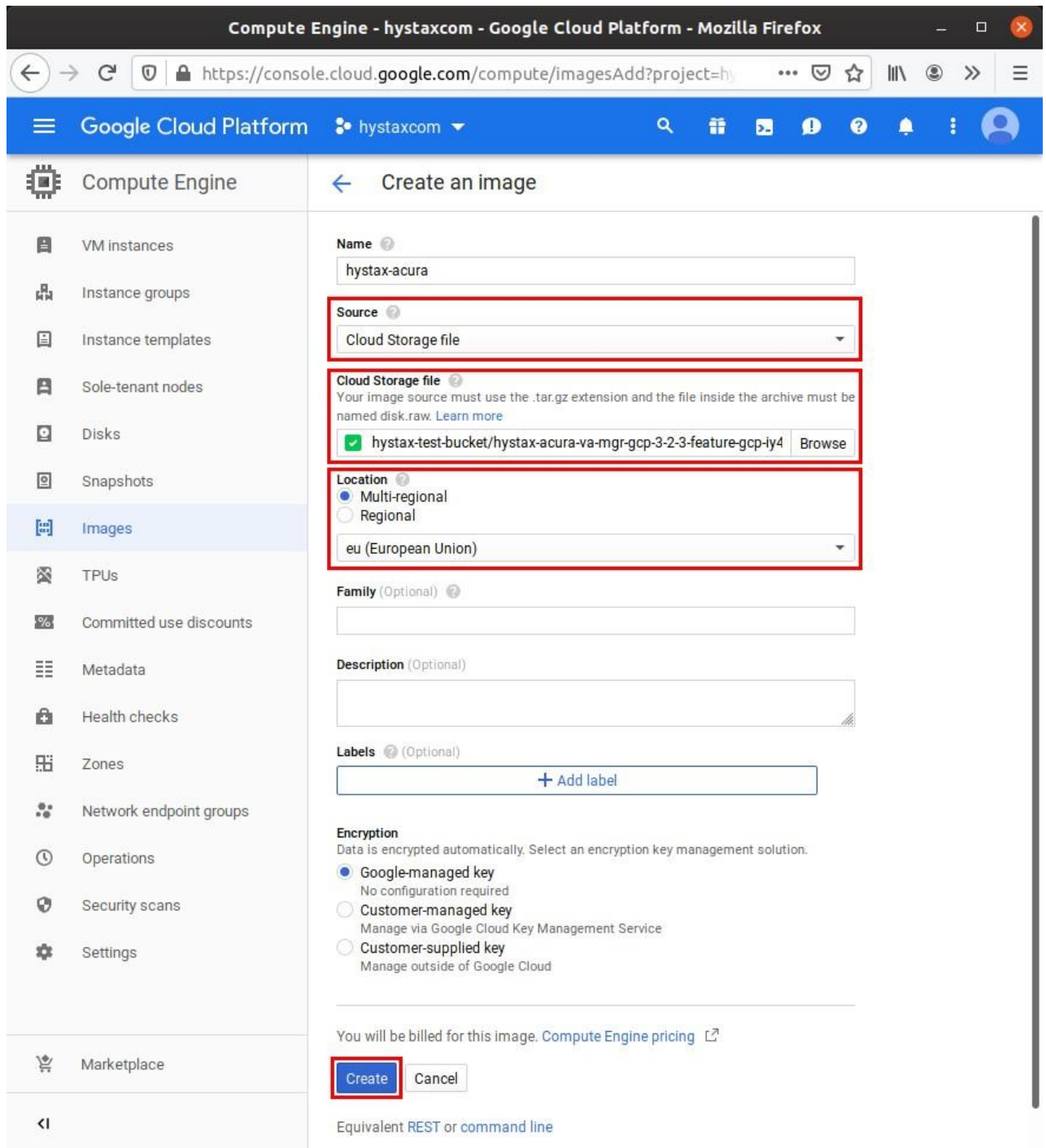


Upload the archives to the selected bucket. Wait till the upload is finished.

2. Create an image for Acura.

Go to “Compute Engine → Images” section in GCP UI and press “Create image”.

- Set “Cloud storage file” as a source.
- Choose the Acura archive as the cloud storage image file.
- Choose the region you will use for Acura instance deployment.
- Image name is not important, you can put something like “hystax-acura” there.



Compute Engine - hystaxcom - Google Cloud Platform - Mozilla Firefox

https://console.cloud.google.com/compute/imagesAdd?project=hystaxcom

Google Cloud Platform hystaxcom

Compute Engine

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Sole-tenant nodes

Disks

Snapshots

Images

TPUs

Committed use discounts

Metadata

Health checks

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Network endpoint groups

Operations

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← Create an image

Name [?]

hystax-acura

Source [?]

Cloud Storage file

Cloud Storage file [?]

Your image source must use the .tar.gz extension and the file inside the archive must be named disk.raw. [Learn more](#)

☒ hystax-test-bucket/hystax-acura-va-mgr-gcp-3-2-3-feature-gcp-ly4 [Browse](#)

Location [?]

☒ Multi-regional

☐ Regional

eu (European Union)

Family (Optional) [?]

Description (Optional)

Labels [?] (Optional)

+ Add label

Encryption

Data is encrypted automatically. Select an encryption key management solution.

☒ Google-managed key

No configuration required

☐ Customer-managed key

Manage via Google Cloud Key Management Service

☐ Customer-supplied key

Manage outside of Google Cloud

You will be billed for this image. [Compute Engine pricing](#)

Create Cancel

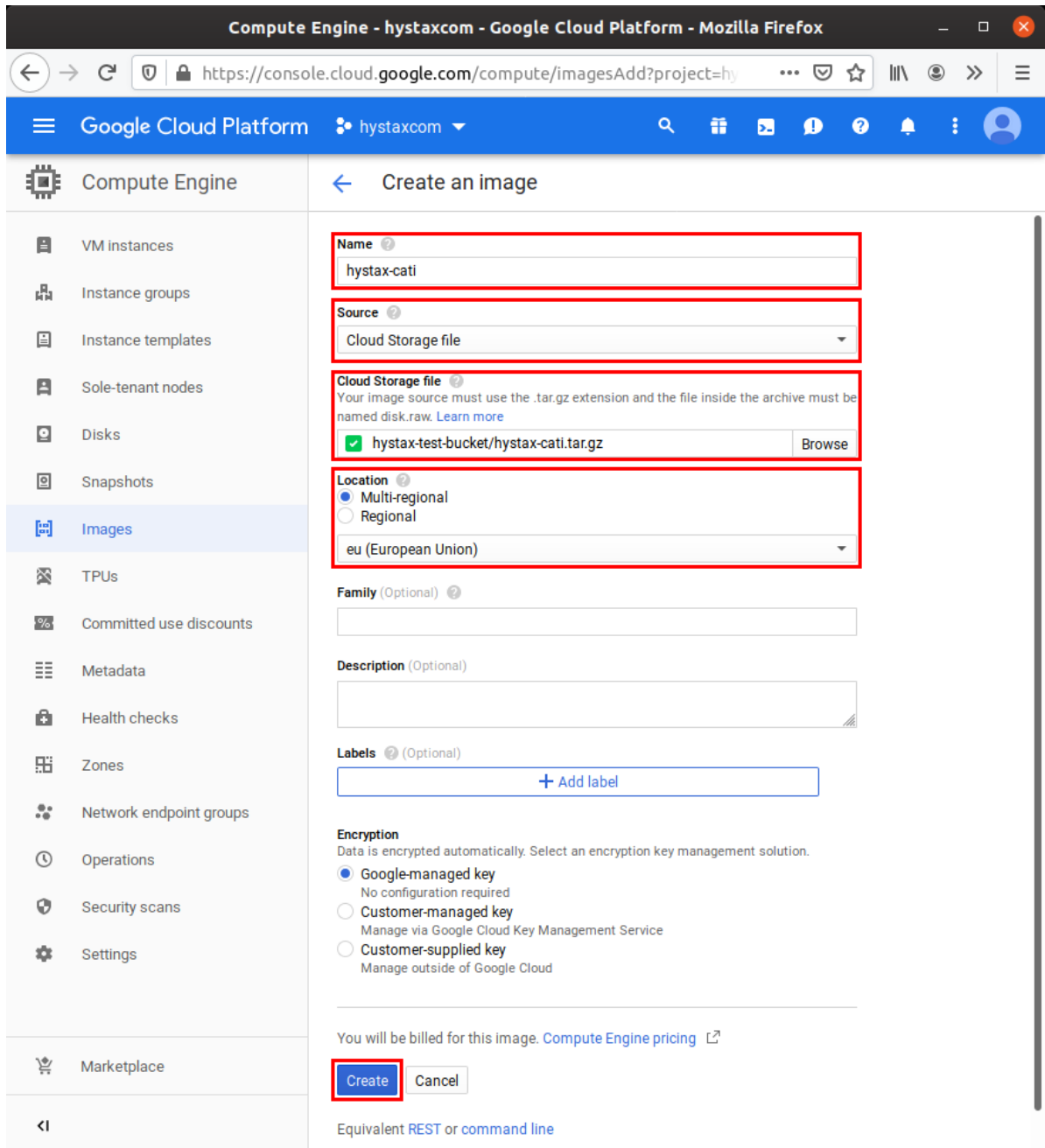
Equivalent REST or [command line](#)

Once the image is created, it is safe to remove the Acura archive from the cloud storage bucket.

3. Create an image for Cloud Agent.

Go to “Compute Engine → Images” section in GCP UI and press “Create image”.

- Set “Cloud storage file” as a source.
- Choose the Cloud Agent archive as the cloud storage image file.
- Choose the same region you used for Acura image.
- Image name must be set to “hystax-cati”.



Compute Engine - hystaxcom - Google Cloud Platform - Mozilla Firefox

https://console.cloud.google.com/compute/imagesAdd?project=hy

Google Cloud Platform hystaxcom

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◀

Create an image

Name [?]

hystax-cati

Source [?]

Cloud Storage file

Cloud Storage file [?]

Your image source must use the .tar.gz extension and the file inside the archive must be named disk.raw. [Learn more](#)

☒ hystax-test-bucket/hystax-cati.tar.gz [Browse](#)

Location [?]

☒ Multi-regional

☐ Regional

eu (European Union)

Family (Optional) [?]

Description (Optional)

Labels [?] (Optional)

[+ Add label](#)

Encryption

Data is encrypted automatically. Select an encryption key management solution.

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☐ Customer-supplied key

Manage outside of Google Cloud

You will be billed for this image. [Compute Engine pricing](#) [?]

[Create](#) [Cancel](#)

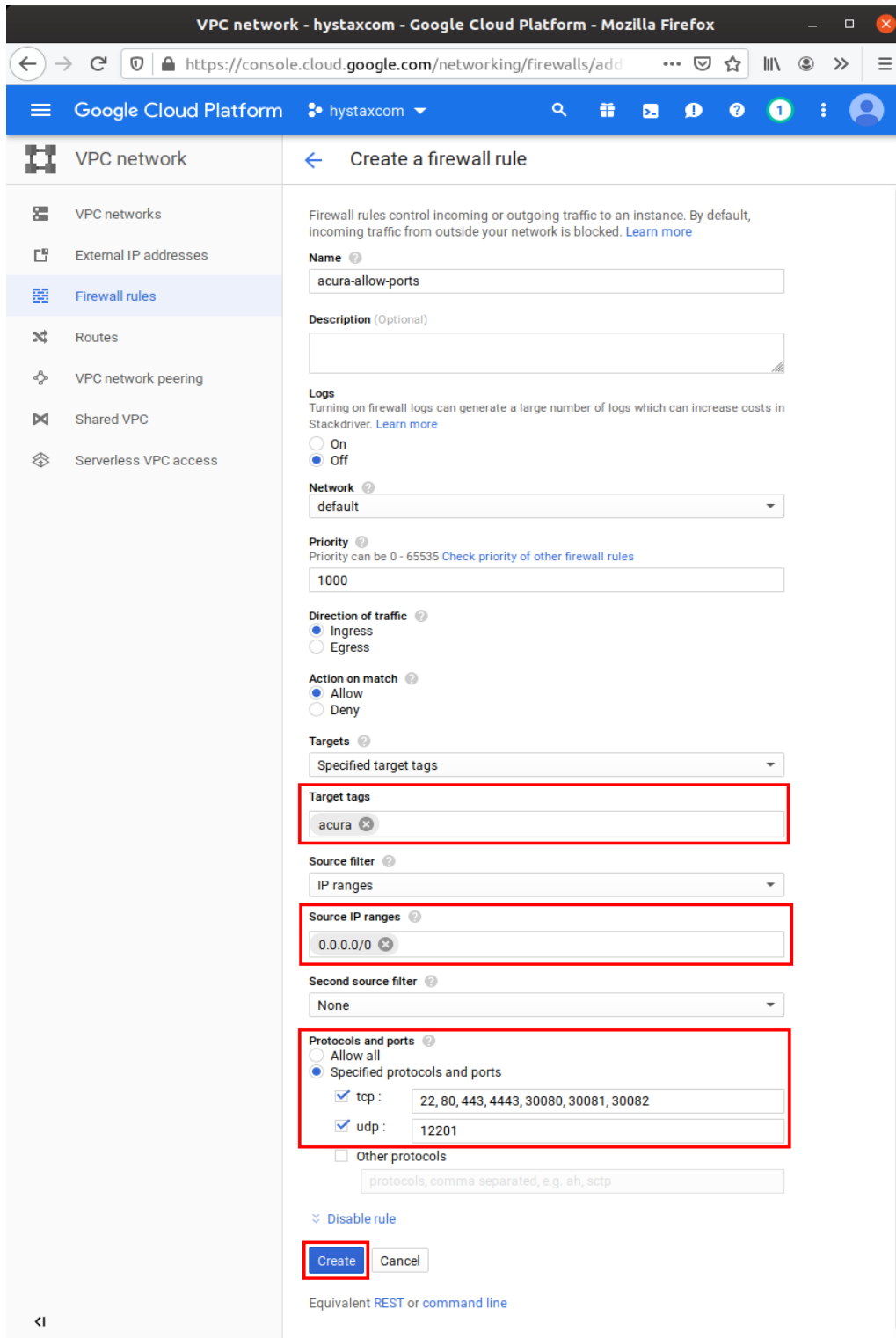
Equivalent [REST](#) or [command line](#)

Once the image is created, it is safe to remove the Cloud Agent archive from the cloud storage bucket.

4. Create firewall rules for Acura's instance.

Go to “VPC network → Firewall rules” section in GCP UI. Create a new rule.

- Choose the network you will use for Acura deployment.
- Set “acura” in “Target tags”.
- Allow the following ports:
 - **tcp:** 22, 80, 443, 4443, 30080, 30081, 30082
 - **udp:** 12201



VPC network - hystaxcom - Google Cloud Platform - Mozilla Firefox

https://console.cloud.google.com/networking/firewalls/add

Google Cloud Platform hystaxcom

VPC network

- VPC networks
- External IP addresses
- Firewall rules
- Routes
- VPC network peering
- Shared VPC
- Serverless VPC access

Create a firewall rule

Firewall rules control incoming or outgoing traffic to an instance. By default, incoming traffic from outside your network is blocked. [Learn more](#)

Name [?]

acura-allow-ports

Description (Optional)

Logs

Turning on firewall logs can generate a large number of logs which can increase costs in Stackdriver. [Learn more](#)

☐ On

☒ Off

Network [?]

default

Priority [?]

Priority can be 0 - 65535 [Check priority of other firewall rules](#)

1000

Direction of traffic [?]

☒ Ingress

☐ Egress

Action on match [?]

☒ Allow

☐ Deny

Targets [?]

Specified target tags

Target tags

acura

Source filter [?]

IP ranges

Source IP ranges [?]

0.0.0.0/0

Second source filter [?]

None

Protocols and ports [?]

☐ Allow all

☒ Specified protocols and ports

☒ tcp : 22, 80, 443, 4443, 30080, 30081, 30082

☒ udp : 12201

☐ Other protocols

protocols, comma separated, e.g. ah, sctp

Disable rule

Create Cancel

Equivalent REST or command line

5. Create firewall rules for Cloud Agent.

During replications, Acura will automatically create Cloud Agent instances and talk to them over the private network. Make sure that there is a firewall rule that permits communication inside your network.

For the “default” network this rule is already created by Google:

<input type="checkbox"/>	default-allow-internal	Ingress	Apply to all	IP ranges: 10.128.0.0/9	tcp:0-65535 udp:0-65535 icmp	Allow	65534	default
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If you are going to deploy Acura to a non-default network, create a similar rule for this network:

- Set “Targets” into “All instances in the network”.
- Set “IP ranges” to the CIDR range of your network.
- Allow all ports.

6. Create Acura instance

Go to “Compute Engine → VM instances” section in GCP UI and press “Create Instance”.

- Choose “n1-standard-2” flavor or better.
- In “Boot disk” choose Acura image from “Custom Images” tab and set the disk size to be at least 100GB. SSD disk type is recommended.
- Allow full access to all cloud APIs for this instance. Acura will not be able to run without cloud API access.
- Open “Management, security, disks, networking, sole tenancy” spoiler and navigate to “Networking” tab:
 - Put “acura” to “Network tags”. This will enable the firewall rule created earlier.
 - Edit the default network interface: create a fixed external IP instead of ephemeral. This will prevent Acura from losing its public IP on shutdown/reboot.

Press “Create” to run Acura’s instance.

Note that you do not need to create Cloud Agent instances: Acura will run them automatically using the image created earlier.

Compute Engine - hystaxcom - Google Cloud Platform - Mozilla Firefox

https://console.cloud.google.com/compute/instancesAdd?project=

Google Cloud Platform hystaxcom

Create an instance

To create a VM instance, select one of the options:

- New VM instance**
Create a single VM instance from scratch
- New VM instance from template**
Create a single VM instance from an existing template
- Marketplace**
Deploy a ready-to-go solution onto a VM instance

Name
hystax-aura

Region
europe-west4 (Netherlands)

Zone
europe-west4-a

Machine configuration

Machine family
General-purpose Compute-optimized

Machine types for common workloads, optimized for cost and flexibility

Series
N1

Powered by Intel Skylake CPU platform or one of its predecessors

Machine type
n1-standard-2 (2 vCPU, 7.5 GB memory)

vCPU
2

Memory
7.5 GB

CPU platform and GPU

Container
☐ Deploy a container image to this VM instance. [Learn more](#)

Boot disk
New 100 GB SSD persistent disk
Image
hystax-aura

Identity and API access

Service account
Compute Engine default service account

Access scopes
☒ Allow default access
☒ Allow full access to all Cloud APIs
☐ Set access for each API

Firewall
Add tags and firewall rules to allow specific network traffic from the Internet
☐ Allow HTTP traffic
☐ Allow HTTPS traffic

Management **Security** **Disks** **Networking** **Sole Tenancy**

Network tags (Optional)
aura

Hostname
Set a custom hostname for this instance or leave it default
hystax-aura.europe-west4-a.c.hystaxcom.internal

Network interfaces

Network interface

Network
default

Subnetwork
default (10.164.0.0/20)

Primary internal IP
Ephemeral (Automatic)

External IP
aura-ip (35.204.225.41)

Network Service Tier
Premium

IP forwarding
Off

Public DNS PTR Record
☐ Enable
PTR domain name

Done Cancel

+ Add network interface

Less

You will be billed for this instance. [Compute Engine pricing](#)

Create Cancel

7. Pass Acura Initial Configuration

Once the VM is started, wait approximately 20 minutes for it to boot up, then open its external IP in a web browser. Please accept the certificate warnings and then you will see the initial configuration page.

1. **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 the Hystax Acura Control Panel and managing the system. If there are any errors, the system will notify you.

The screenshot shows the Hystax Setup Wizard interface. 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. The main heading for Step 1 is "Please provide your organization name and Hystax Control Panel administrator user credentials to be created." Below this, there are four input fields: "Organization*", "Admin user login*", "Password*", and "Confirm password*". Each field has 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", along with the copyright notice "© 2020 | Hystax | All rights reserved".

hx hystax

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

| [Hystax Support Portal](#) | [Terms of use](#) | [Help](#)

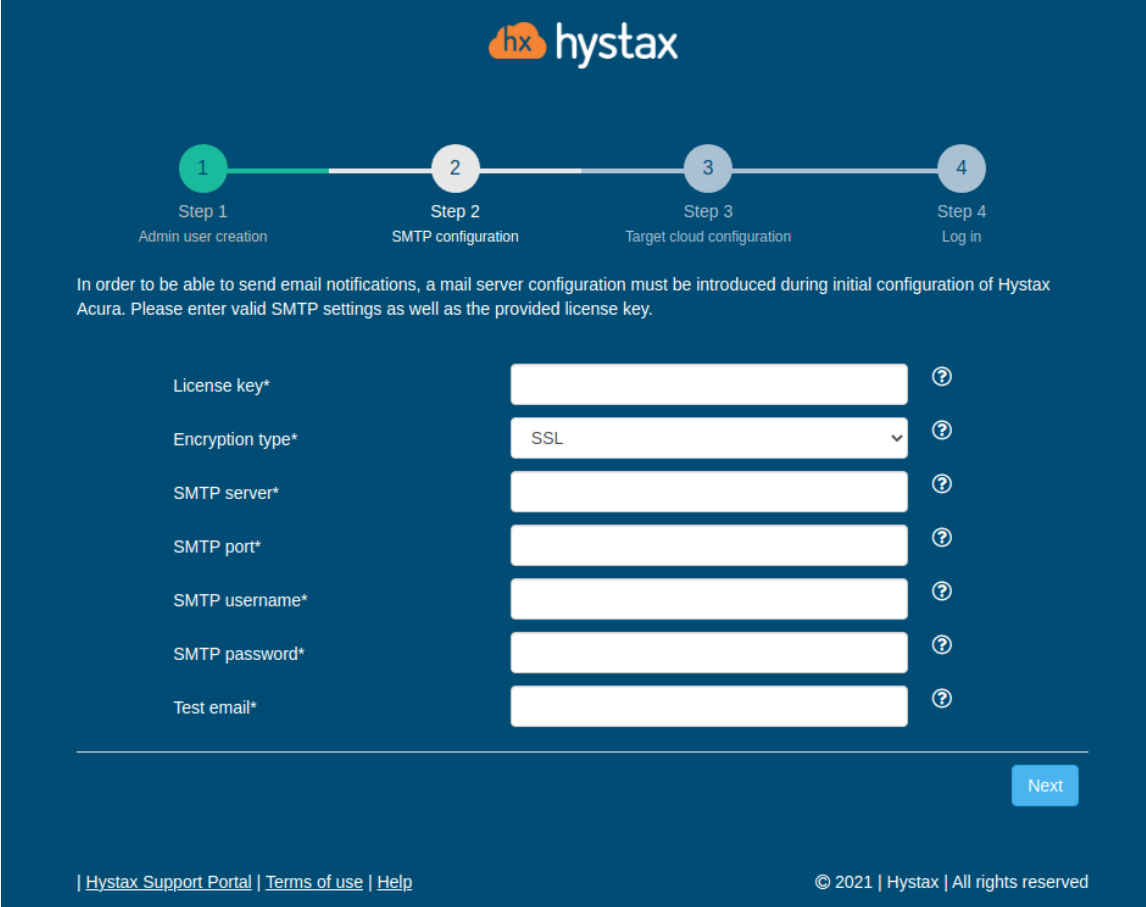
© 2020 | Hystax | All rights reserved

2. **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”.

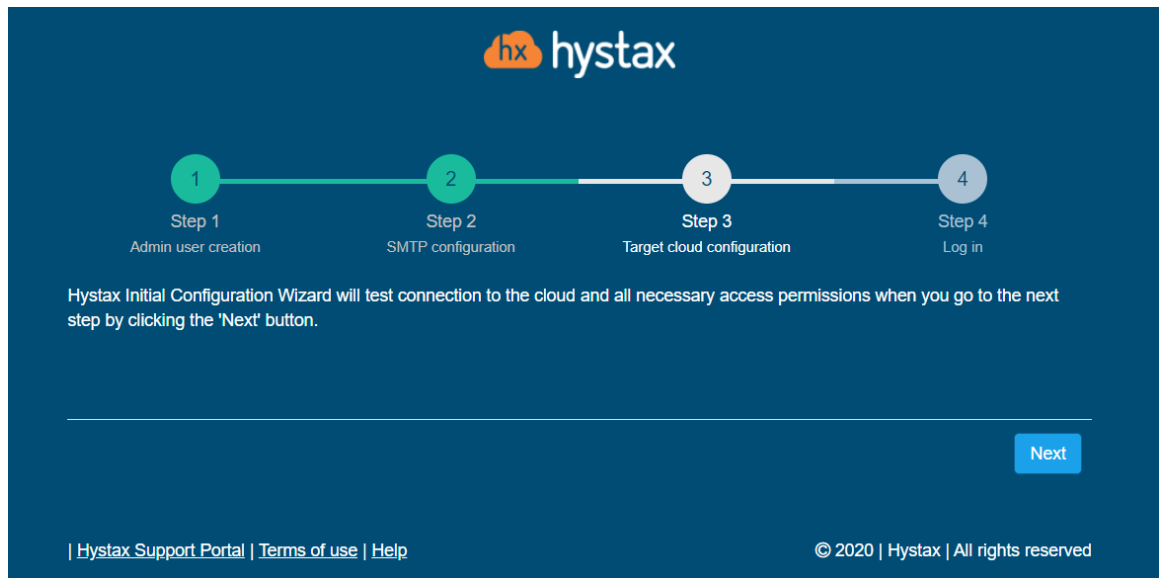


The image shows the Hystax installation configuration interface. At the top, the Hystax logo is displayed. Below it, a progress bar indicates four steps: Step 1 (Admin user creation), Step 2 (SMTP configuration), Step 3 (Target cloud configuration), and Step 4 (Log in). Step 2 is currently active. A 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:

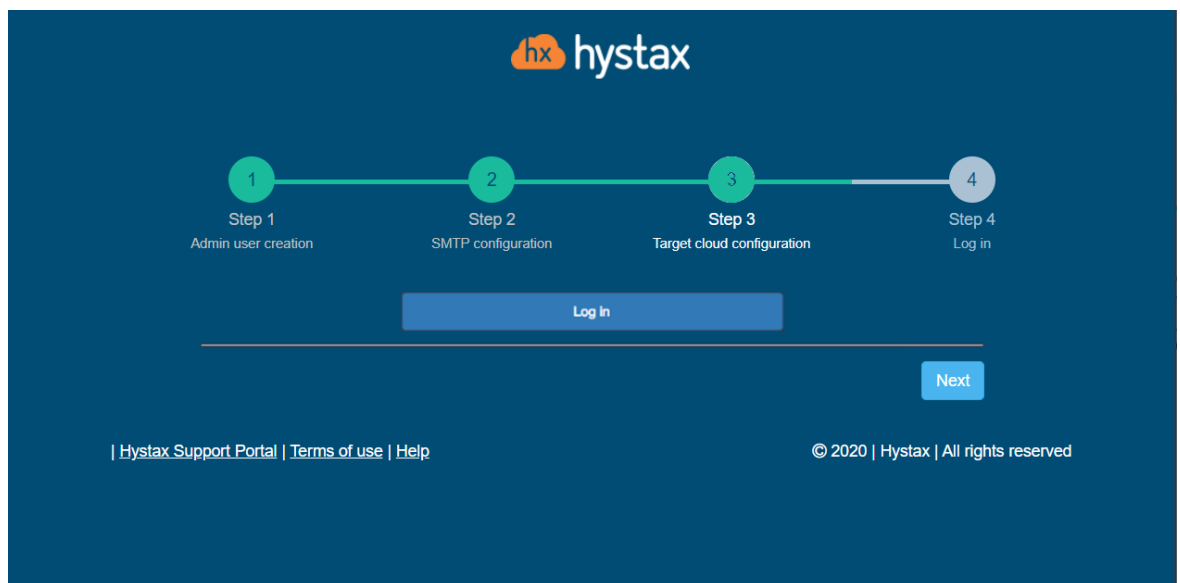
Field	Value	Help Icon
License key*	<input type="text"/>	?
Encryption type*	SSL	?
SMTP server*	<input type="text"/>	?
SMTP port*	<input type="text"/>	?
SMTP username*	<input type="text"/>	?
SMTP password*	<input type="password"/>	?
Test email*	<input type="text"/>	?

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".

3. **Step 3:** Click the “Next” button.



4. **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 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

Phone: +16282511280 Address: 1250 Borregas Avenue Sunnyvale, CA 94089