

Hystax Acura

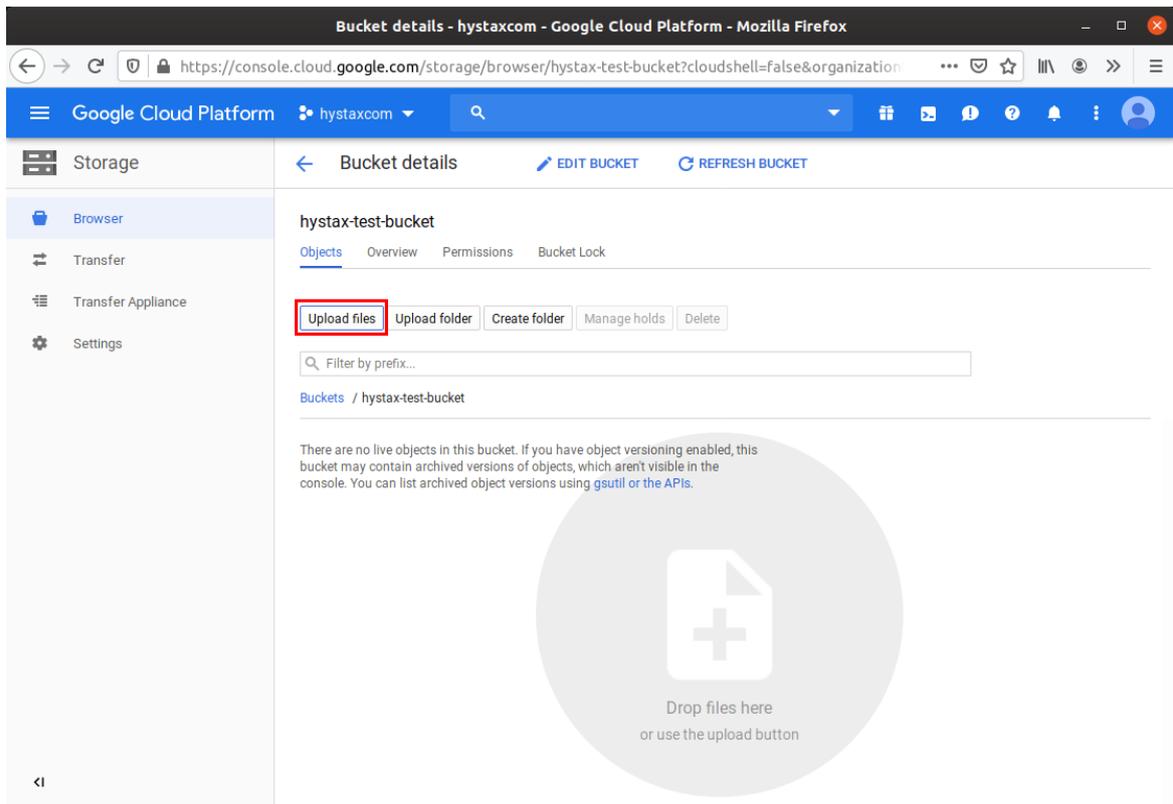
Installation Guide (GCP)



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:

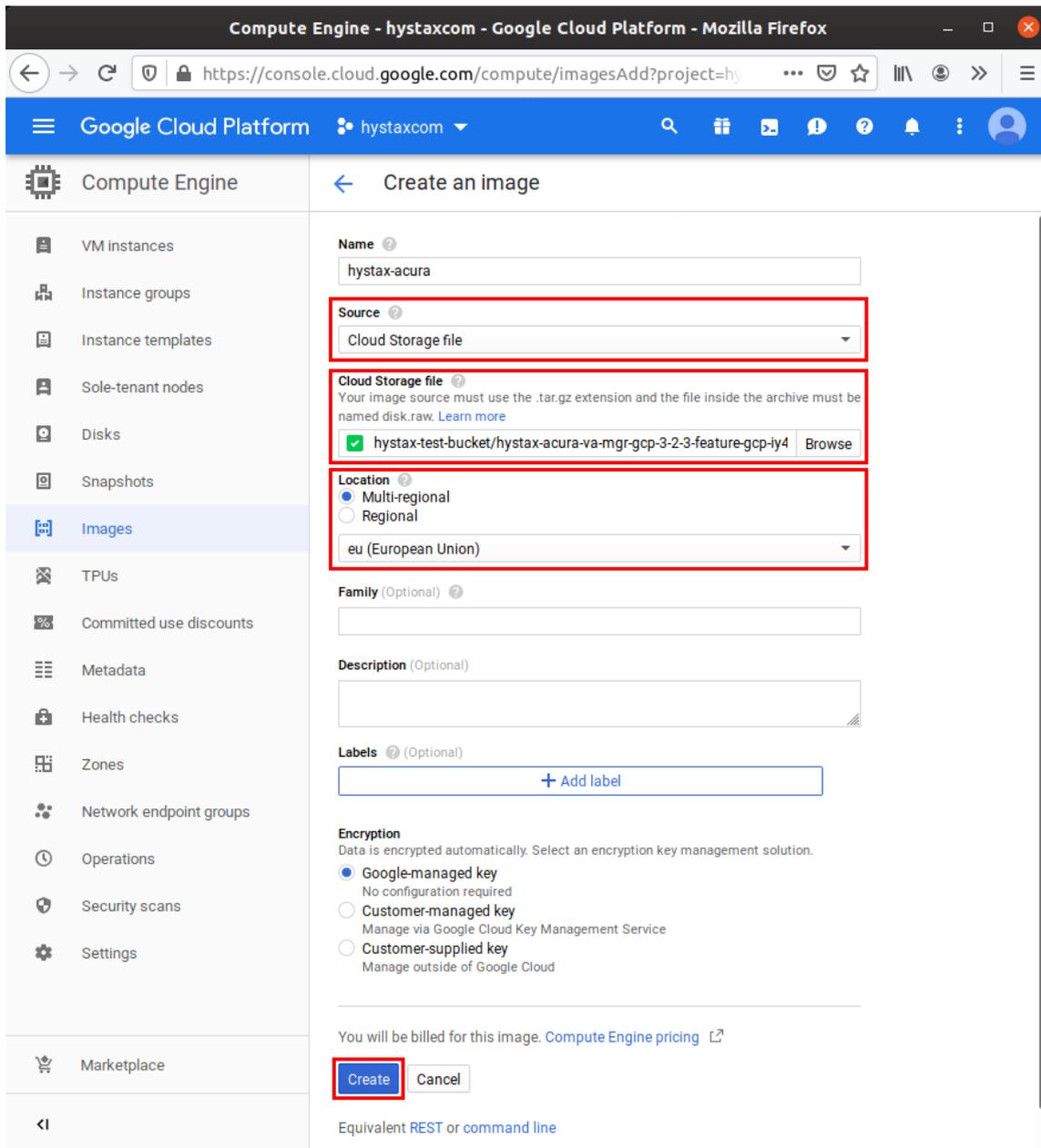


Wait till the upload is finished.

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=hy

Google Cloud Platform hystaxcom

Compute Engine

← 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](#)

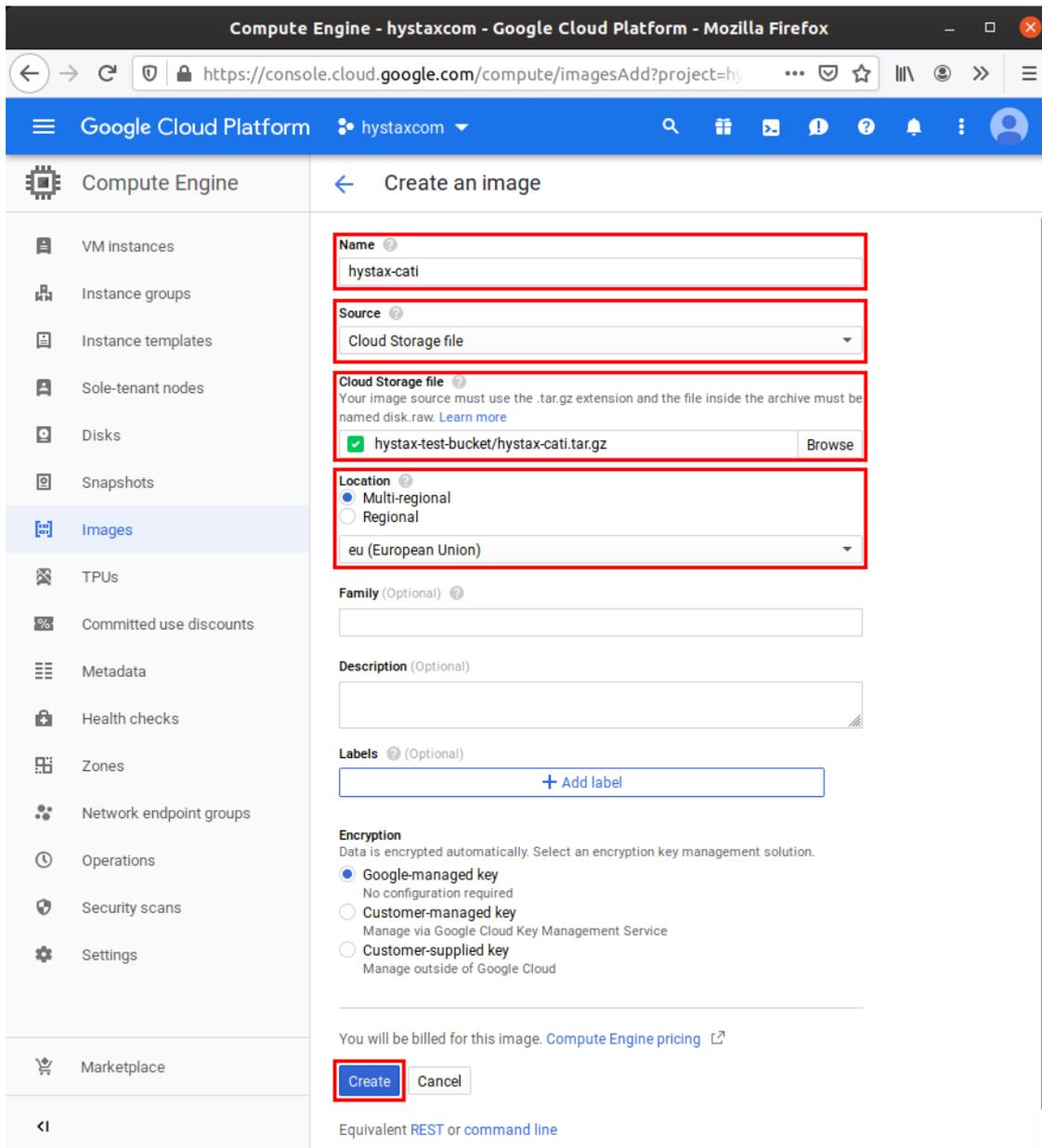
Equivalent REST or command line

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

Compute Engine

← 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)

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](#)

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 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

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

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

Direction of traffic
 Ingress
 Egress

Action on match
 Allow
 Deny

Targets

Target tags

Source filter

Source IP ranges

Second source filter

Protocols and ports
 Allow all
 Specified protocols and ports

tcp :
 udp :

Other protocols

[Disable rule](#)

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 won’t 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 instance.

Note that you don’t 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	Memory
	2	7.5 GB

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 full access to all Cloud APIs

Firewall
Add tags and firewall rules to allow specific network traffic from the Internet

Management Security Disks **Networking** Sole Tenancy

Network tags (Optional)
aura

Hostname
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

Done Cancel

+ Add network interface

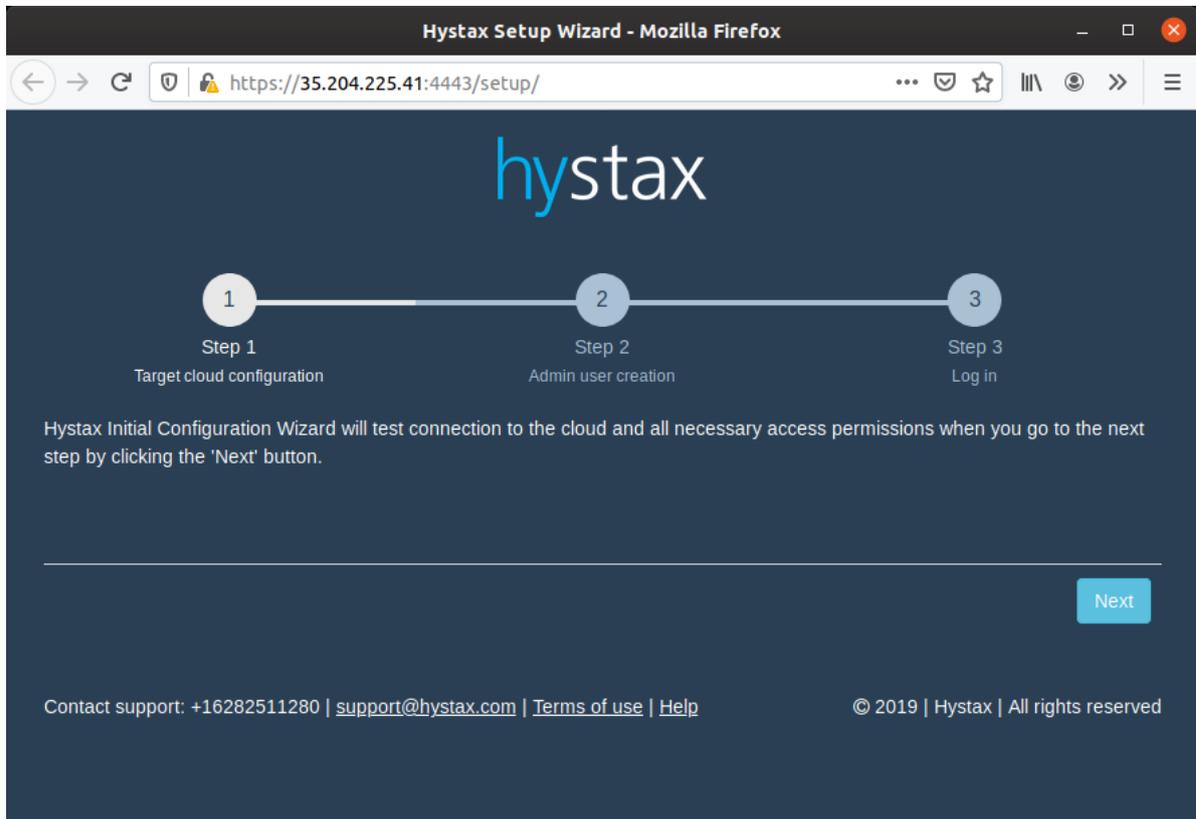
Less

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.



Press “Next” to run cloud check. If this check fails with permission errors, please verify that Acura instance has full access to all cloud APIs. Note that you will need to shut down the instance to change its permission settings.

After cloud check is complete, an Acura account creation form will appear. Create the account and use it to log in. Congratulations, you are now ready to use Acura!