

Federated Identity SAML Options With Google Cloud



Dev Thakkar · [Follow](#)

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This article explains options to authenticate the pricestats application that is running on Cloud Run

First we walk through the simple pricestats application

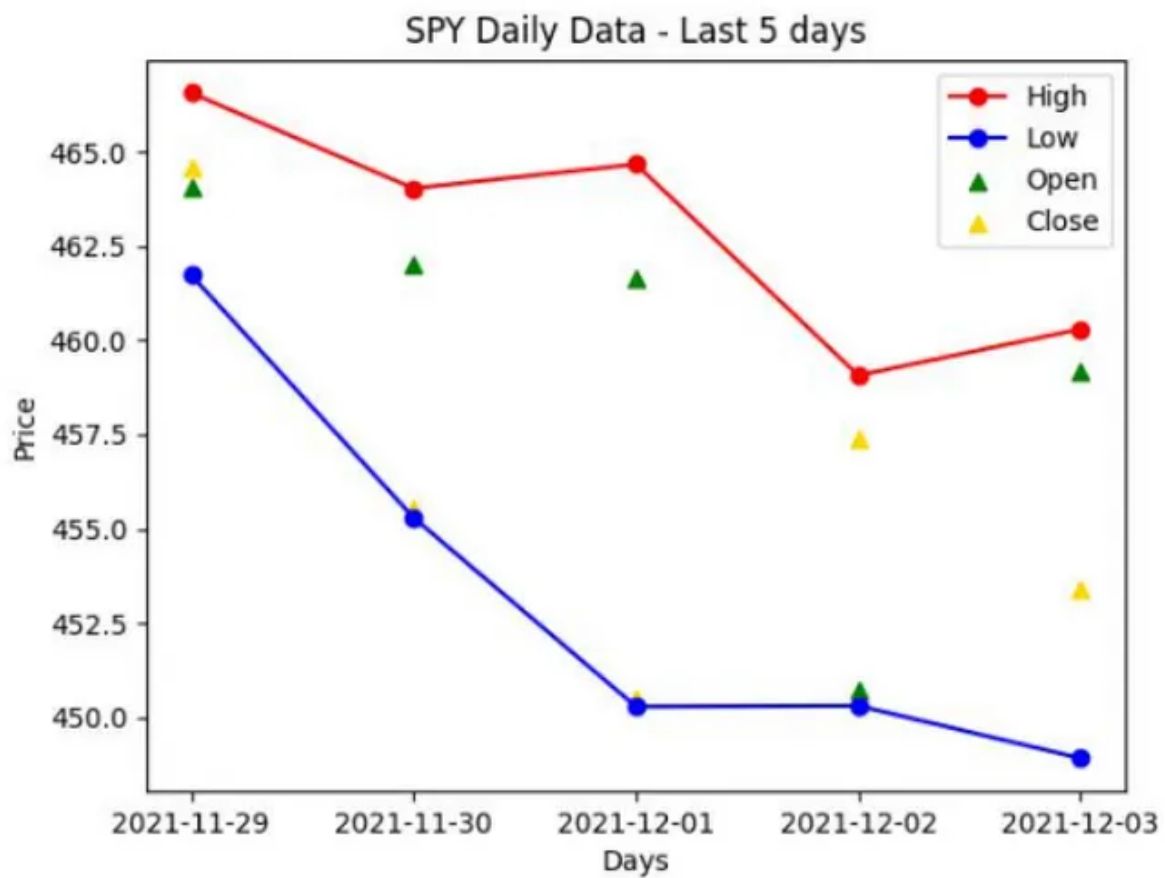
Application flow —

- (1) User enters the URL in browser
- (2) User selects Stock and Symbol from dropdown

Symbol: time (in days):

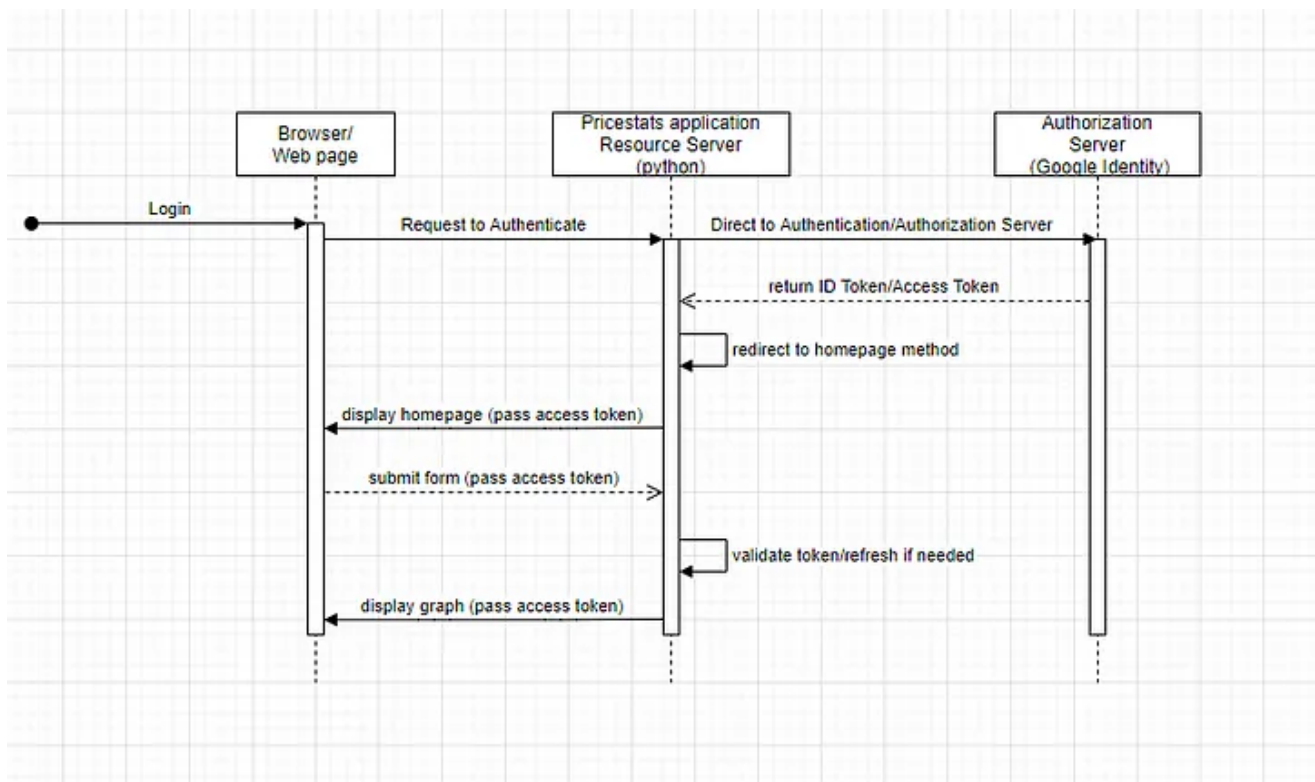
Click submit after selecting Symbol and time (in days)

- (3) User clicks submit
- (4) Results data page displays selected stock graph



A separate [article](#) was created to explain use of Google Identity and OpenID connect with this application

Below sequence diagram explains the OpenID Connect/OAuth flow



(1) User clicks on Login link

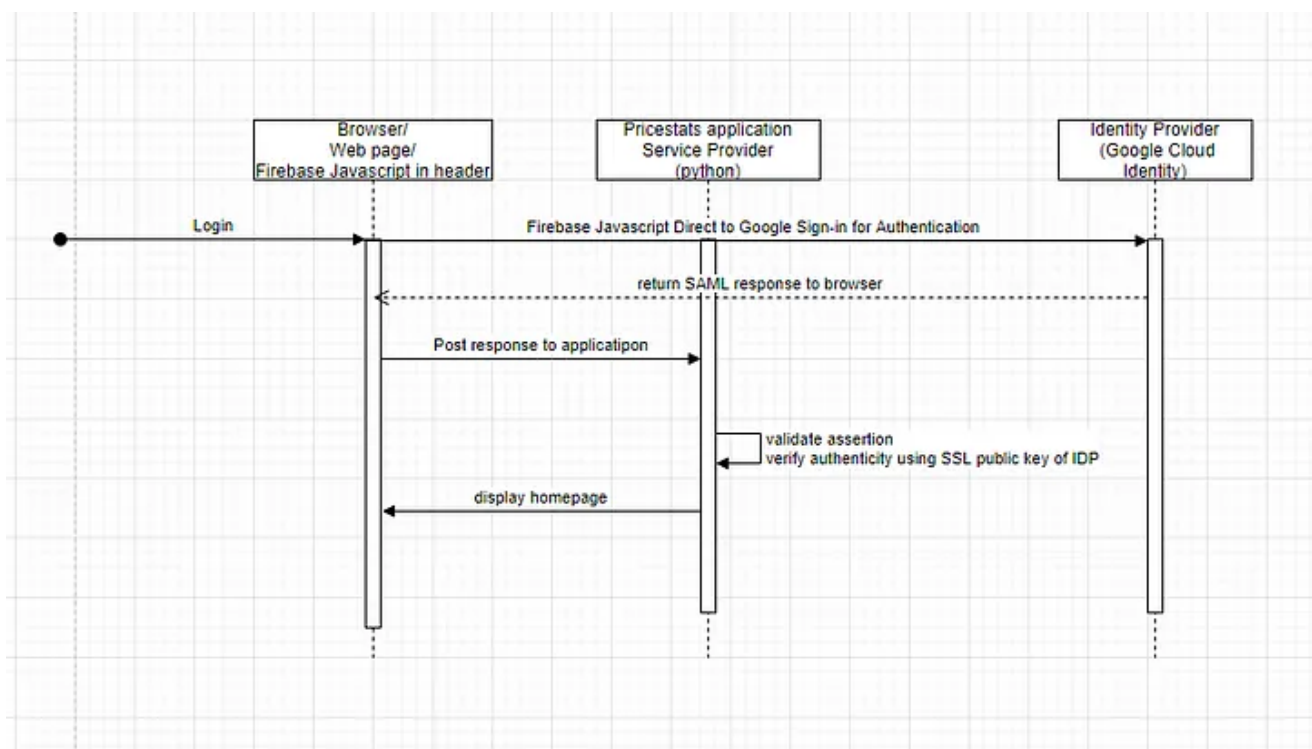
(2) Pricestats applications directs the request to authentication server (Google Identify)

(3) User is authenticated with Google Identity and Claims data (Id Token, Access Token, etc) is returned to application

We will now review using SAML 2.0 for authentication

(Reference Signing in users with SAML, Reference architectures)

Option 1 : Google as Identity provider and authoritative source



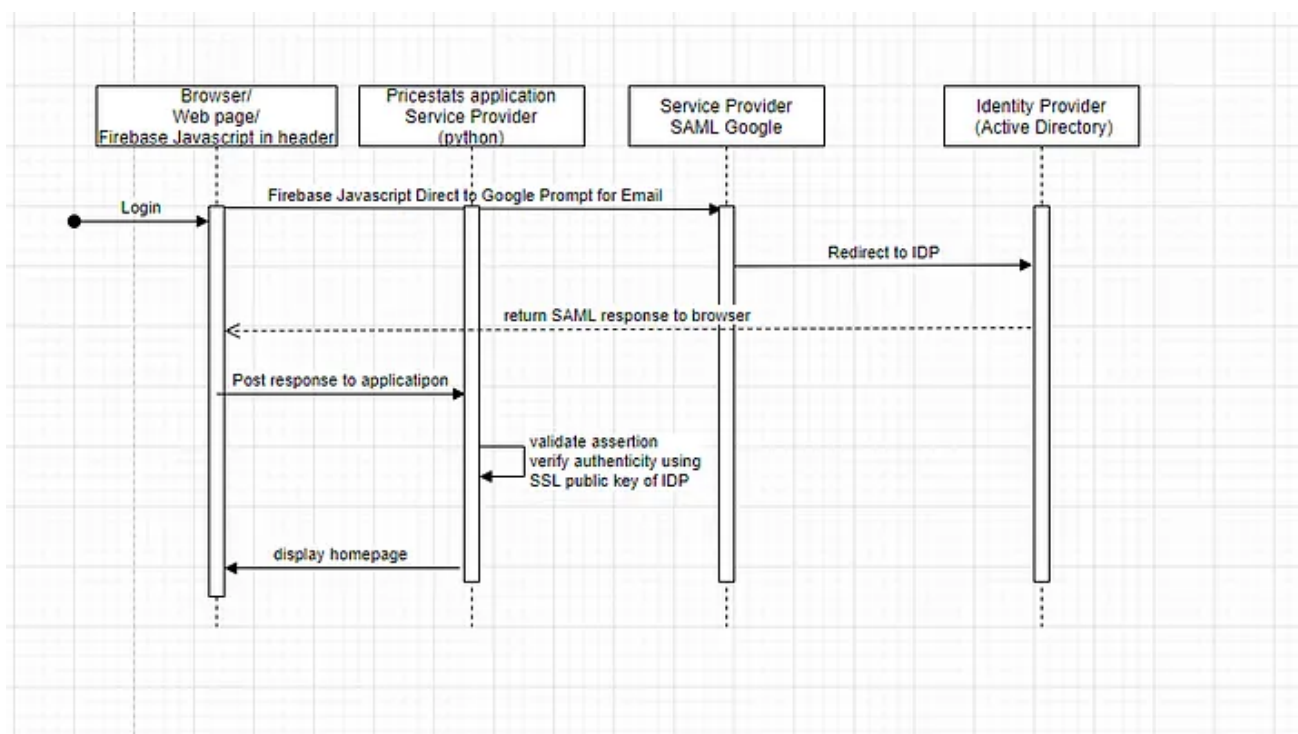
(1) User clicks on Login link

(2) Firebase javascript directs user to Google Sign-in for authentication (Identity Provider)

(3) Returned SAML response (ACS) is sent to browser and javascript code makes REST API (post) call to pricestats application (service provider)

(4) Pricestats application validates assertion by verifying authenticity (digital certificate) of Identity Provider

Option 2 : Active Directory as Identity Provider and authoritative source



- (1) User clicks on Login link
- (2) Firebase javascript directs user to Google prompt for email
- (3) Google cloud identity redirects call to Active Directory (external Identity provider) — Review [link](#) for SML setup
- (4) Returned SAML response (ACS) is sent to browser and javascript code makes REST API (post) call to pricestats application (service provider)
- (4) Pricestats application validates assertion by verifying authenticity (digital certificate) of Identity Provider

Saml

Google Cloud Platform

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```
aml > ...  
Fact| Registry - create repository kmtestrepo  
d and push to repository kmtestrepo  
:  
e: 'gcr.io/cloud-builders/docker'  
s: [ 'build', '-t', '${_LOCATION}-docker.pkg.dev/$PROJECT_ID/${_REPOSITORY}/${_IMAGE}'  
:  
LOCATION}-docker.pkg.dev/$PROJECT_ID/${_REPOSITORY}/${_IMAGE}'  
stitutions:  
LOCATION: "us-east1"  
POSITORY: "kmtestrepo"  
AGE: "my-image"
```


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Deploy To Cloud Run Using Cloud Build And Terraform

This article demonstrates use of Cloud Build and Terraform to deploy python backend service on Google Cloud Run.

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Firestore	Data
	/ > Profile 
	Root
	+ START COLLECTION
	⋮ Profile

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Continued from Part 1

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Project name *


KMSTESTPROJ

Project ID *

kmstestproj



Project ID can have lowercase letters, digits, or hyphens. It must start with a lowercase letter and end with a letter or number.

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Use Cloud KMS To Encrypt Passphrase Part 1

Scenario: User requiring application to encrypt “passphrase” before it is stored in database



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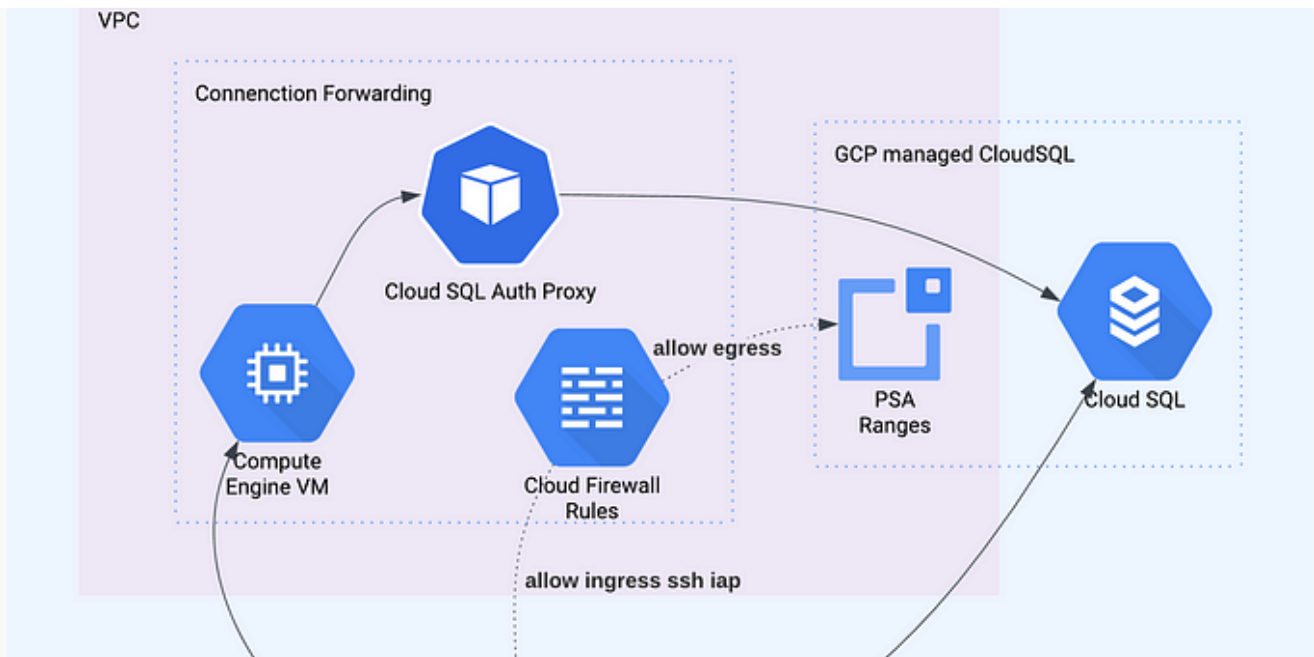
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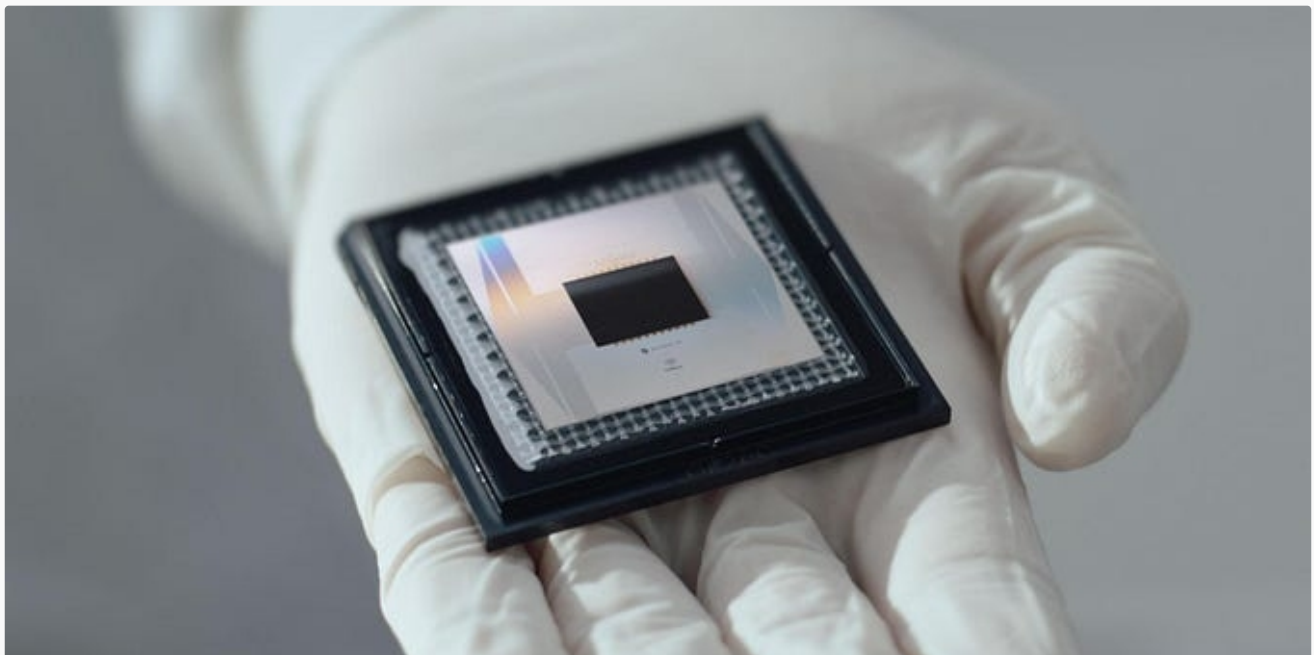



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
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