To add multiple authentication in OpenStack. (Google sign-in)

OpenStack is an open-source environment used to set up a private cloud in any organization or enterprise. It is a coalition of various components that provide the compute, storage and authentication services.

The project focuses on the component 'Keystone' which provides authentication and authorization services.

Need: The project helps to implement a Single-Sign On system with the help of Google server. The SSO system enables the user to login to a private cloud using their Google credentials.

The external Google server will perform the task of fetching identities and authenticating them, after which a token is passed to the Keystone server for authorization. The authentication of the user is done by using the OAuth 2.0 protocol that uses the OpenID Connect plugin.

The Keystone and Horizon(Dashboard) code written in Python programming language, as well as respective configuration files will be changed to add a link for Google authentication on the dashboard.