G Suite Provisioning Configuration Guide

Introduction

SecureAuth IdP can be configured for directory - appliance - G Suite (formerly Google Apps) user profile provisioning, including password synchronization and other IdM tools. There are various ways to enable the features in SecureAuth IdP, and G Suite APIs must be configured appropriately.

Use this guide to enable user profile provisioning via G Suite APIs.

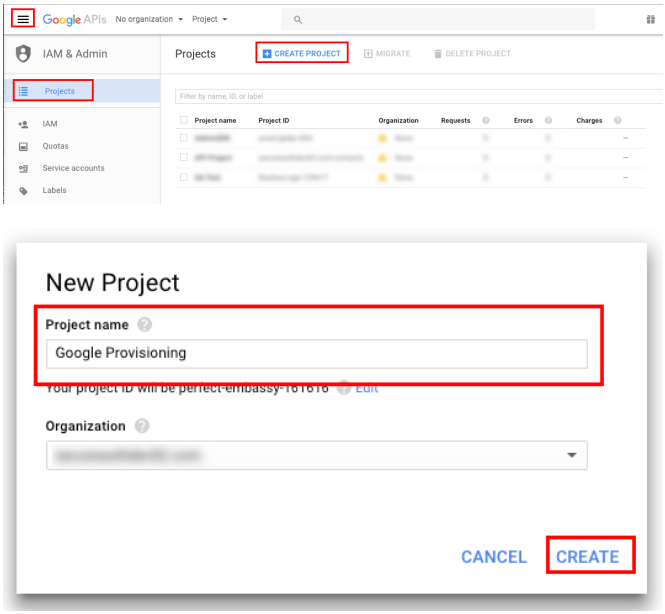
Prerequisites

1. Procure G Suite and access to the Developers Console and Admin Console
2. Create a new SecureAuth IdP realm for provisioning G Suite
3. Obtain a directory **Service Account** with **read and write** access for SecureAuth IdP
4. Set up an Active Directory field to which SecureAuth IdP can map a **Profile Property**

    For other data stores, the field mapping must be configured through the directory

G Suite API Configuration Steps

Create Project

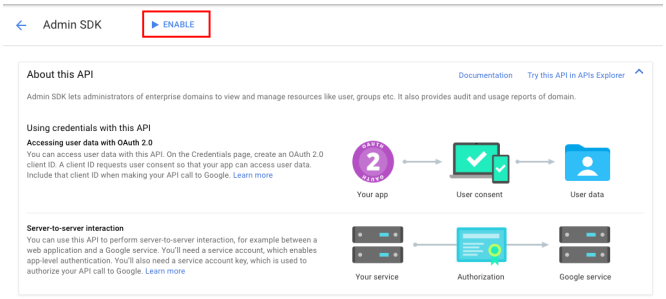


1. Log into the **Google Developers' Console** , and navigate to **IAM & Admin > Projects** from the three bars menu
2. Select **Create Project**

    These steps can also be completed by opening the **Projects** dropdown menu at the top, and selecting **Create project**

3. Provide a **Project Name**, and select an **Organization** if the project is not already being created within one
4. Click **Create**

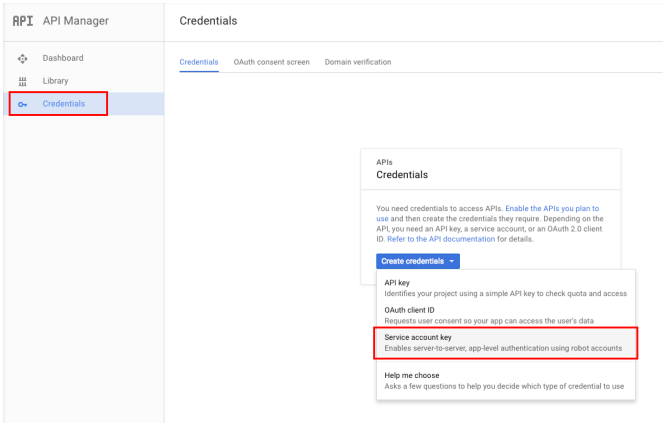
Enable Admin SDK



5. In the **Libraries** section, search for **Admin SDK**, and select the option

6. On the **Admin SDK** page, click **Enable**

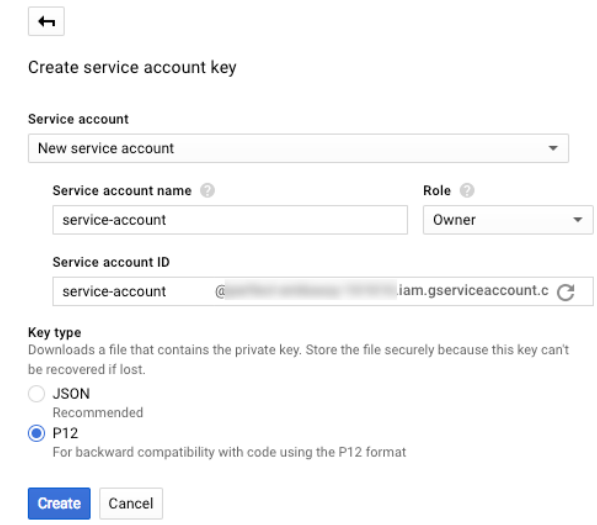
Create Service Account



7. On the **API Manager** page (accessible via the three bars menu), navigate to the **Credentials** section, and click **Create Credentials**

8. Select **Service Account Key**

Create Service Account Key

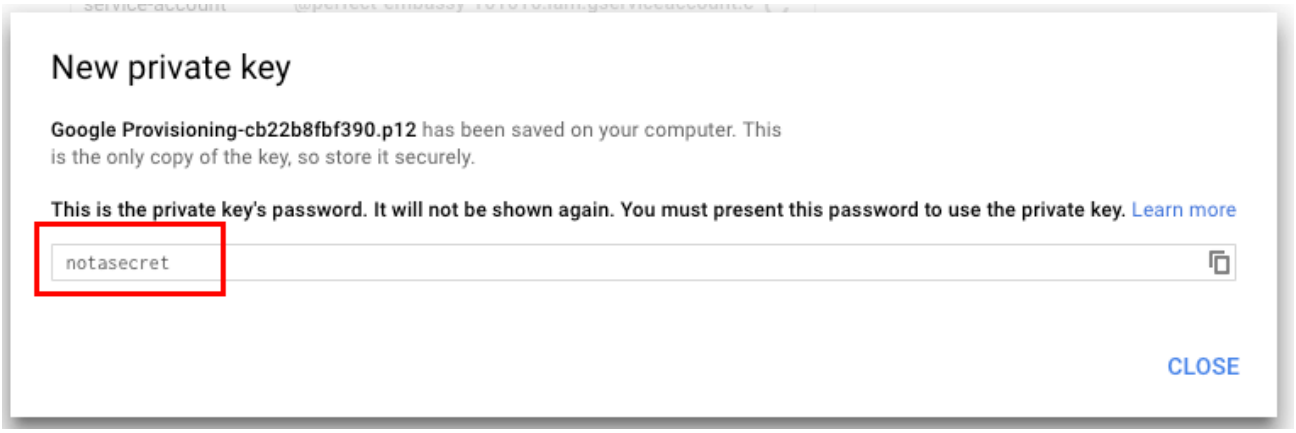


9. Select **New service account** from the **Service Account** dropdown, and provide a **Service Account Name**

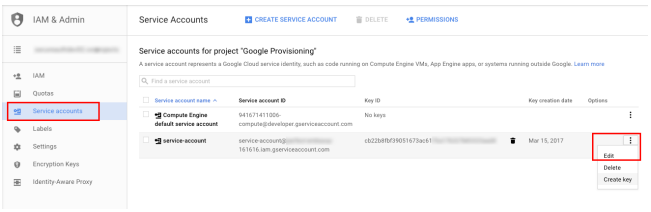
10. Select **Project > Owner** from the **Role** dropdown

11. Select **P12**, and click **Create**

12. Save the p12 file that downloads, which is uploaded to the SecureAuth appliance (see steps below), note the **Private Key Password**, and click **Close**



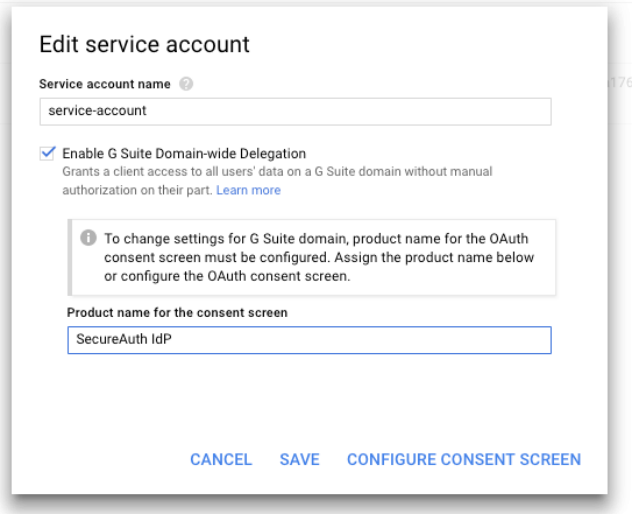
Manage Service Account



13. On the **Credentials** page, click **Manage Service Accounts**

14. Click the three dots on the newly-created service account, and select **Edit**

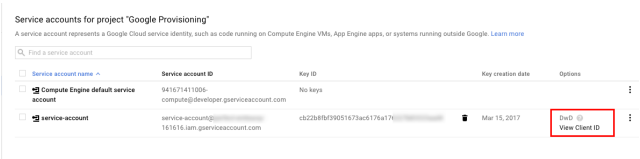
Edit Service Account



15. Check **Enable G Suite Domain-wide Delegation** and provide a **Product name for the consent screen**

16. Click **Save**

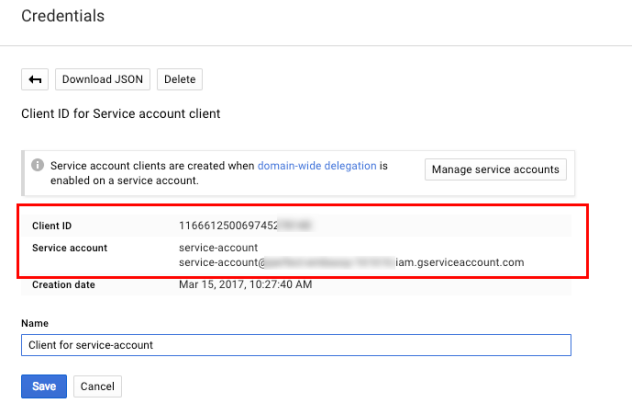
Click **Configure Consent Screen** to set additional (optional) preferences for the consent page; or access the configuration at **API Manager > Credentials > OAuth Consent Screen**



Back on the **Service Accounts** page, a new **DwD** section appears for the service account

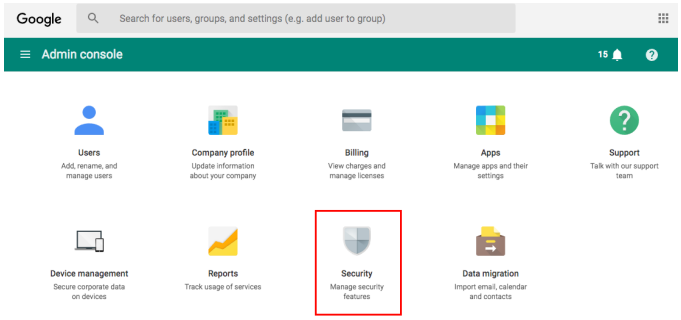
17. Click **View Client ID**

Credentials



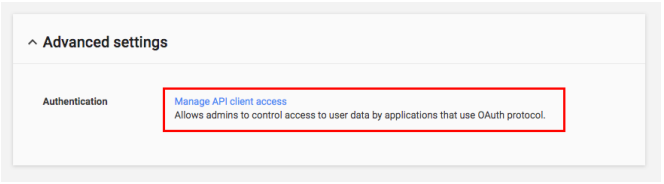
18. Note the **Client ID**, which is used in the G Suite Administrative Configuration Steps (below), and the **Service Account** email address, which is used in the SecureAuth IdP Configuration Steps (below)

G Suite Administration Configuration Steps



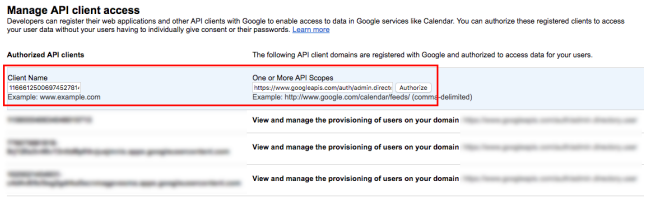
19. Log into the **G Suite Administrative Console** and select **Security**

Security - Advanced Settings



20. Under **Advanced Settings**, select **Manage API Client Access**

Manage API Client Access



21. Set the **Client Name** to the **Client ID** obtained in the G Suite API Configuration Steps (step 18)

22. Set the **One or More API Scopes** to **https://www.googleapis.com/auth/admin.directory.user** and click **Authorize**

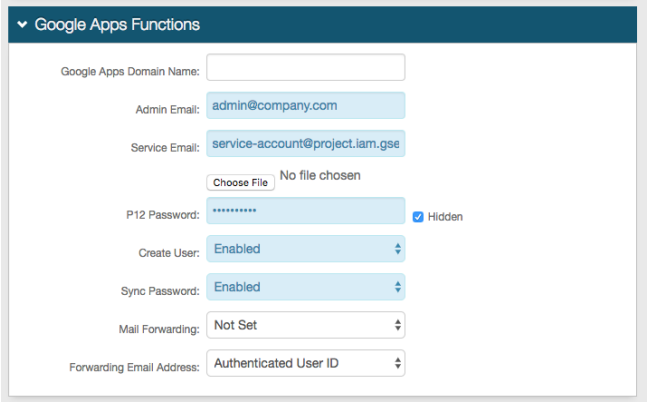
SecureAuth IdP Configuration Steps

The following SecureAuth IdP steps are required to enable G Suite provisioning functions from SecureAuth IdP / enterprise directory to G Suite

See the **Related Documentation** links below to view the configuration steps for specific provisioning features

Post Authentication

Google Apps Functions



1. Leave the **Google Apps Domain Name** field blank

2. Set the **Admin Email** to the G Suite Administrative email account

3. Set the **Service Email** to the **Service Account** email address obtained from the G Suite API Configuration Steps above (step 18)

4. Click **Choose File** and select the **p12 File** obtained in the G Suite API Configuration Steps above (step 12)

5. Set the **P12 Password** to the **Private Key Password** obtained in the G Suite API Configuration Steps above (step 12)

6. Select **Enabled** from the **Create User** dropdown if SecureAuth IdP is to automatically create the G Suite user account (if it does not already exist)

7. Select **Enabled** from the **Sync Password** dropdown if SecureAuth IdP is to conduct a one-way synchronization of the user's directory password to G Suite

    To synchronize on specific dates versus every time the password changes, map a directory field to the **Ext. Sync Pwd Date** property in the **Data** tab

    If no field is mapped, then the password synchronizes every time

G Suite requires passwords with a minimum of 8 characters

8. Select **Enabled** from the **Mail Forwarding** dropdown if another email address will receive messages; select **Disabled** to disable the feature; or select **Not Set** if SecureAuth IdP is to not be included in this feature

9. Select the **Profile Field** that contains the user's **Forwarding Email Address** (applicable only if **Enabled** is selected in step 8)

Click **Save** once the configuration has been completed and before leaving the **Post Authentication** page to avoid losing changes

Related Documentation

- Directory Password Synchronization with G Suite Configuration Guide
- Forgot Password Configuration Guide
- G Suite (IdP-initiated) Integration Guide
- G Suite (SP-initiated) Integration Guide
- iOS G Suite Provision Configuration Guide
- Reset Password Configuration Guide