

Cloudpath

Enrollment System

Setting Up Third-Party Authentication Within Cloudpath Using Google™

Software Release 5.0

December 2016

Summary: This document describes how to create a Google application for use with Cloudpath, and how to configure Cloudpath to use the Google application for authentication.

Document Type: Configuration

Audience: Network Administrator



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Setting Up Third-Party Authentication Within CloudpathES Using Google™

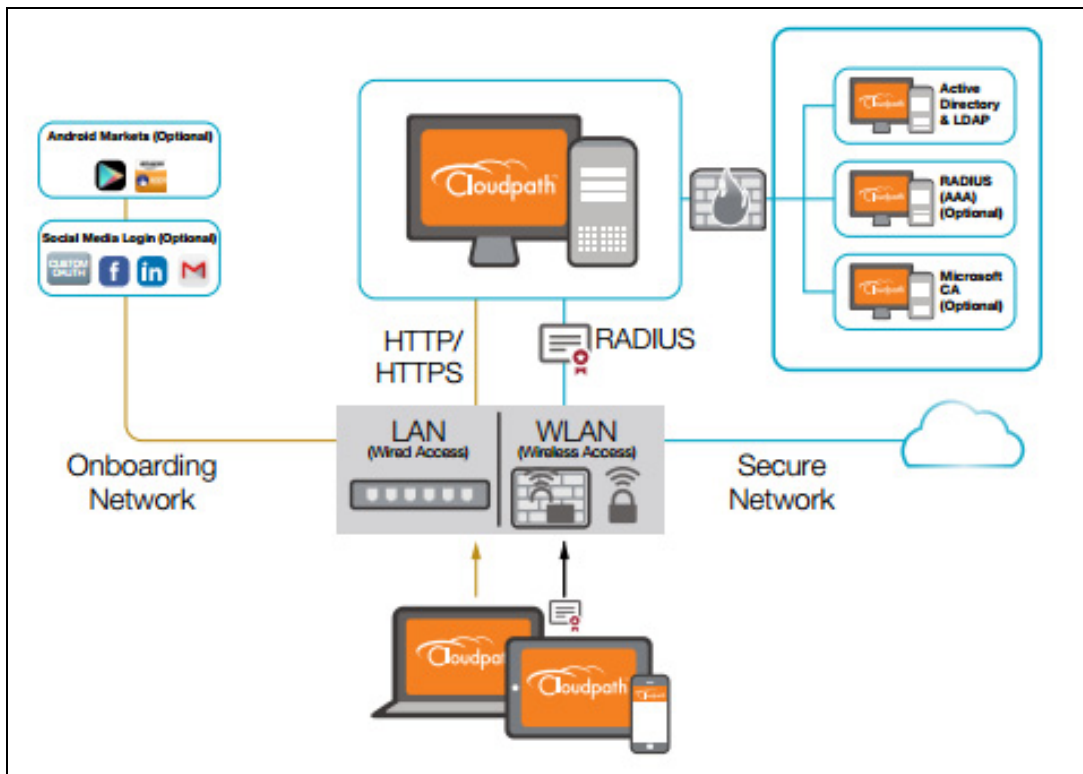
Cloudpath Security and Policy Management

Cloudpath Enrollment System (ES) software is a security and policy management platform that enables any IT organization to protect the network by easily and definitively securing users and their wired and wireless devices—while freeing those users and IT itself from the tyranny of passwords.

Cloudpath software lets IT do with one system what usually requires many, while easily and automatically integrating with existing access and network security infrastructure..

The flexible workflow engine gives network administrators further control by blending traditional policies (AD, RADIUS, and Microsoft CA) with additional policy capabilities (LinkedIn, Facebook, and Google Gmail). When you combine third-party authentication with traditional authorization methods, the social media provides additional identity information during the onboarding process to deliver automated, self-service access for all devices.

FIGURE 1. Cloudpath Security and Policy Management Platform



Setting Up the Google Application

Before configuring Cloudpath for third-party authentication, you must set up the Google application.

What You Need

- Google login credentials
- Branding information for your application
- Redirect URL for your application

Google App Configuration

This section describes how to create the Google application to use with Cloudpath.

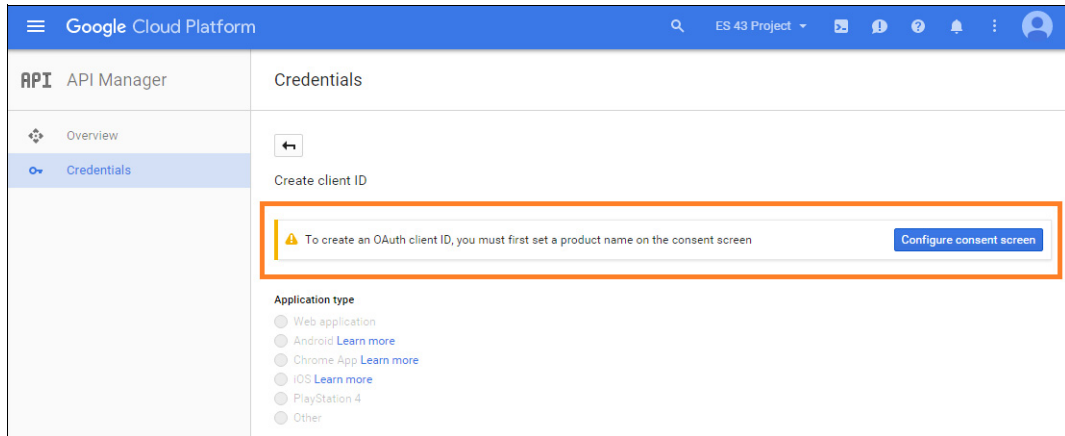
Create Web Application Project

1. Go to <https://console.developers.google.com>.
2. Sign in to your Google account.
3. On the *Google API manager*, create and name an API Project.
4. Select the *Credentials* tab on the left-menu.
5. On the left-menu *Credentials*, tab, there are 3 tabs across the top, *Credentials*, *OAuth consent screen*, and *Domain verification*.

Note >>

Be sure to create the OAuth consent screen first. If you create the Client ID first, a warning displays.

FIGURE 2. Warning Message



Configure OAuth Consent Screen

1. In the API Manager, from the left menu Credentials tab, Select the top-tab *OAuth consent screen*.
The consent screen will be shown to users whenever you request access to their private data using your client ID. It will be shown for all applications registered in this project
2. Enter the *OAuth Consent Screen* credentials. *Email address* and *Product name* are required. Optionally, you can enter URL and a product logo.

FIGURE 3. OAuth Consent Screen

The screenshot shows the Google APIs console interface for configuring an OAuth consent screen. The left sidebar is titled 'API Manager' and has 'Credentials' selected. The main content area is titled 'Credentials' and has three tabs: 'Credentials', 'OAuth consent screen' (which is active), and 'Domain verification'. The 'OAuth consent screen' tab contains several form fields: 'Email address' (a dropdown menu with 'anna@cloudpath.net' selected), 'Product name shown to users' (a text input with 'Cloudpath50'), 'Homepage URL (Optional)' (a text input with 'https:// or http://'), 'Product logo URL (Optional)' (a text input with 'http://www.example.com/logo.png'), 'Privacy policy URL' (a text input with 'https:// or http://'), and 'Terms of service URL (Optional)' (a text input with 'https:// or http://'). Below these fields are 'Save' and 'Cancel' buttons. To the right of the form fields, there is an illustration of a laptop and a smartphone, both displaying a consent screen with three green checkmarks. Below the illustration, there is explanatory text: 'The consent screen will be shown to users whenever you request access to their private data using your client ID. It will be shown for all applications registered in this project.' and 'You must provide an email address and product name for OAuth to work.'

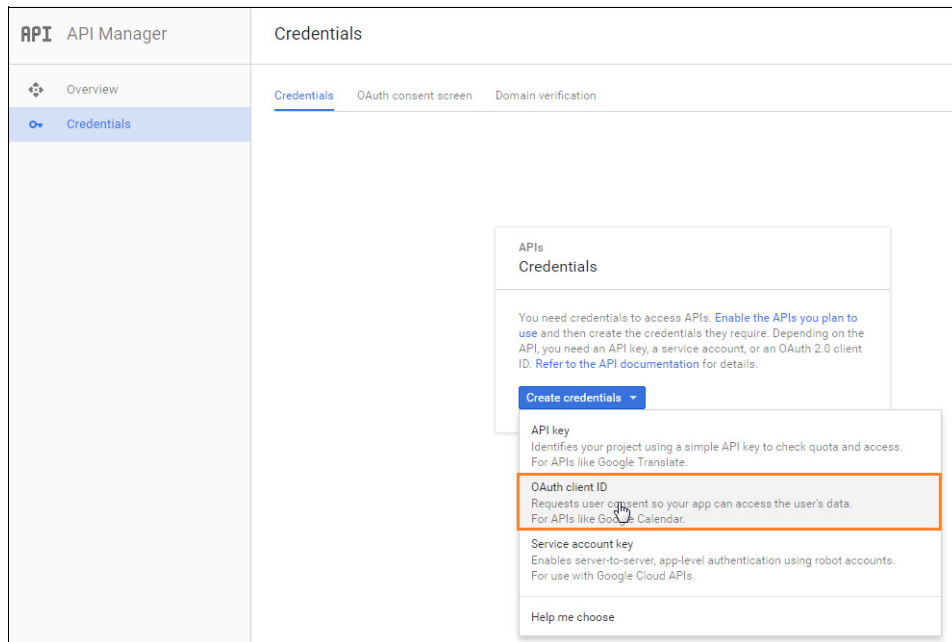
3. Save the OAuth consent screen page.

Create Client ID

1. In the API Manager, from the left-menu *Credentials* tab, select the *Credentials* top-tab.

2. From the *Create Credentials* drop-down menu, select *OAuth Client ID*.

FIGURE 4. Create OAuth Client ID



3. Select *Application Type - Web application*.

FIGURE 5. Create Client ID

The screenshot shows the 'API Manager' interface for creating a client ID. The left sidebar has 'Overview' and 'Credentials' (selected). The main area is titled 'Credentials' and 'Create client ID'. There is a back arrow icon. The 'Application type' section has radio buttons for 'Web application' (selected), 'Android Learn more', 'Chrome App Learn more', 'iOS Learn more', 'PlayStation 4', and 'Other'. The 'Name' field contains 'Cloudpath ES web client'. The 'Restrictions' section has a label 'Enter JavaScript origins, redirect URIs, or both'. Under 'Authorized JavaScript origins', there is a text input field with 'http://www.example.com'. Under 'Authorized redirect URIs', there is a text input field with 'https://testURL.cloudpath.net/enroll/Test/Production/google/' and a close button 'x'. At the bottom are 'Create' and 'Cancel' buttons.

4. Enter the Name for your web application client.
5. On the *Create Client ID* page, leave the *Authorized Javascript origins* field blank.
6. In the *Authorized redirect URIs* field, the entry must be in this format $\${ENROLLER_URL}/enroll/google/$, where $\${ENROLLER_URL}$ is the external URL to which the user is redirected. For multiple redirect URLs, enter one path on each line.

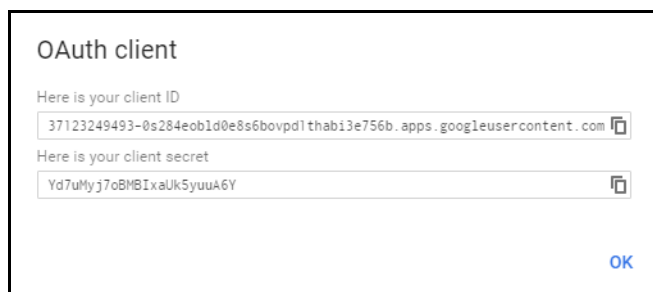
Note >>

Refer to the Google Configuration Redirect URI on the Third-Party Authentication Setup page in the Cloudpath Admin UI.

7. Click *Create*.

The OAuth client ID and client secret for your web application are displayed.

FIGURE 6. OAuth Client Information

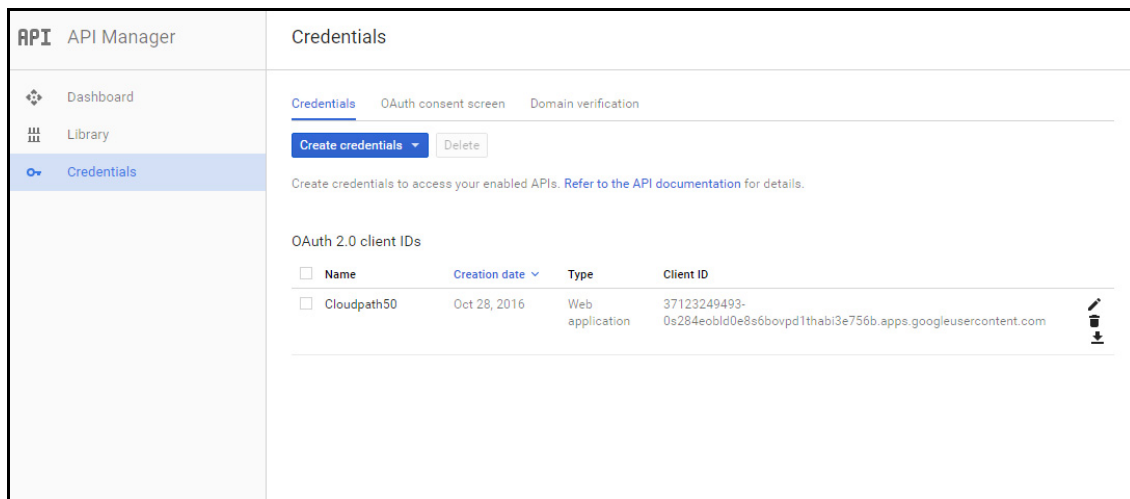


Click OK to continue.

View Client ID Details

View your OAuth Client ID list with the left-menu *Credentials*, and top-tab *Credentials*, selected.

FIGURE 7. OAuth Client IDs



Click the link in the *Client ID Name* to view the Client ID details, including the *Client ID* and *Client Secret*.

FIGURE 8. Client ID for Web Application

The screenshot shows the 'API Manager' interface. On the left is a navigation menu with 'Dashboard', 'Library', and 'Credentials' (selected). The main content area is titled 'Credentials' and contains the following information:

- Buttons: Download JSON, Reset secret, Delete
- Section: Client ID for Web application
- Table:

Client ID	37123249493-0s284eobld0e8s6bovpd1thabi3e756b.apps.googleusercontent.com
Client secret	Yd7uMyj7oBMBIxaUk5yuuA6Y
Creation date	Oct 28, 2016, 4:45:05 PM
- Section: Name
 - Input field: Cloudpath50
- Section: Restrictions
 - Text: Enter JavaScript origins, redirect URIs, or both
 - Section: Authorized JavaScript origins
 - Text: For use with requests from a browser. This is the origin URI of the client application. It can't contain a wildcard (http://*.example.com) or a path (http://example.com/subdir). If you're using a nonstandard port, you must include it in the origin URI.
 - Input field: http://www.example.com
 - Section: Authorized redirect URIs
 - Text: For use with requests from a web server. This is the path in your application that users are redirected to after they have authenticated with Google. The path will be appended with the authorization code for access. Must have a protocol. Cannot contain URL fragments or relative paths. Cannot be a public IP address.
 - Input field: https://anna40.cloudpath.net/enroll/Anna40TestBVT/Production/google
 - Input field: http://www.example.com/oauth2callback
- Buttons: Save, Cancel

Tip >>

Make note of your *Client ID* and *Client Secret*. You need this information to set up Google authentication within Cloudpath.

Setting Up Cloudpath

After the Google application is set up, configure an authentication step in Cloudpath to prompt the user for the Google credentials.

What You Need

- Google application Client ID
- Google application Client Secret

Cloudpath Configuration

This section describes how to add a step to the enrollment workflow to authenticate a user using the Google application.

How to Add Third-Party Authentication to the Workflow

1. Create an enrollment workflow for third-party authentication.
2. Add an enrollment step, that prompts the user to authenticate through a third-party source.
3. Select *Create a new configuration*.

The *Third-Party Authentication Setup* page allows you to specify which third-party sources are allowed as well as API information related to those sources.

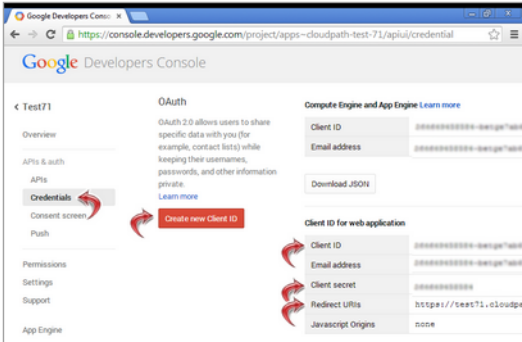
4. Enter the *Name* and *Description* of this configuration.

FIGURE 9. Third-Party Authentication Setup - Google

Google Configuration

Google Supported?

Instructions: The Google Developer's Console is available at <https://console.developers.google.com>. Within the desired project, locate API & Auth->Credentials and create a client ID for a web application.



The client ID 'anonymous' has been deprecated by Google and should not be used.

Client ID:

Client Secret:

Redirect URIs: Google will need a list of acceptable Redirect URIs. These must be the full enrollment URL + "/google", such as <https://test71.cloudpath.net/enroll/Regression/Test/google>. Multiple URLs may be specified, with one per line.

Based on the current deployment locations, the Redirect URIs should be:
<https://anna41.cloudpath.net/enroll/AnnaTest/Production/google>

5. In the Google Configuration section, check the *Google Supported?* box.

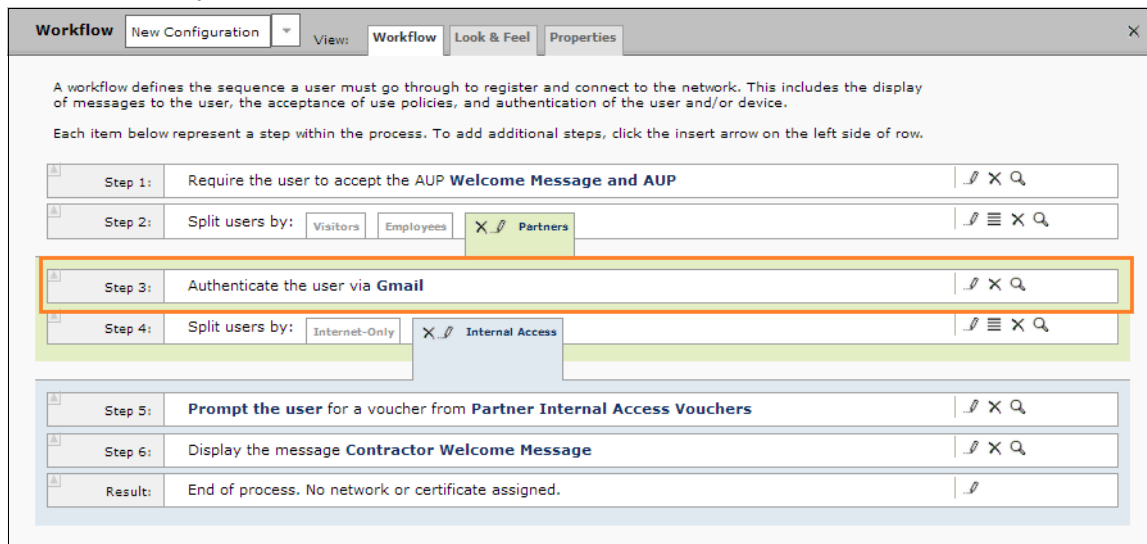
6. Read the instructions for creating a client key. Be sure that the URI in the Google application matches the instructions on this page.
7. Enter the *Client ID* and *Client Secret* from the Google application.

Note >>

These entries must match what is specified in the Google application.

8. Click Save. The Google authentication step is added to your enrollment workflow.

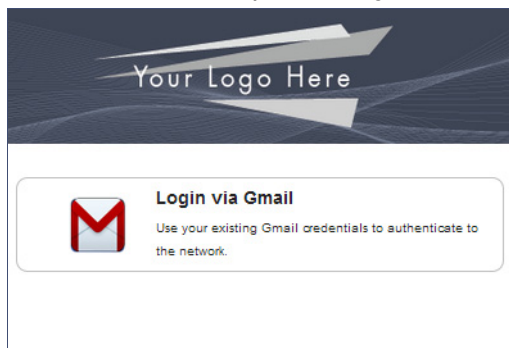
FIGURE 10. Cloudpath Workflow



User Experience

When a user attempts to gain access to your network, they receive the Google authentication prompt during the enrollment process.

FIGURE 11. User Prompt for Google Authentication



After authenticating the user with their Gmail credentials, Cloudpath continues with the enrollment process and moves the user to the secure network.