

Cloudpath

Enrollment System

Setting Up Third-Party Authentication Within the Cloudpath ES Using Facebook™

Software Release 4.3

April 2016

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

Document Type: Configuration

Audience: Network Administrator



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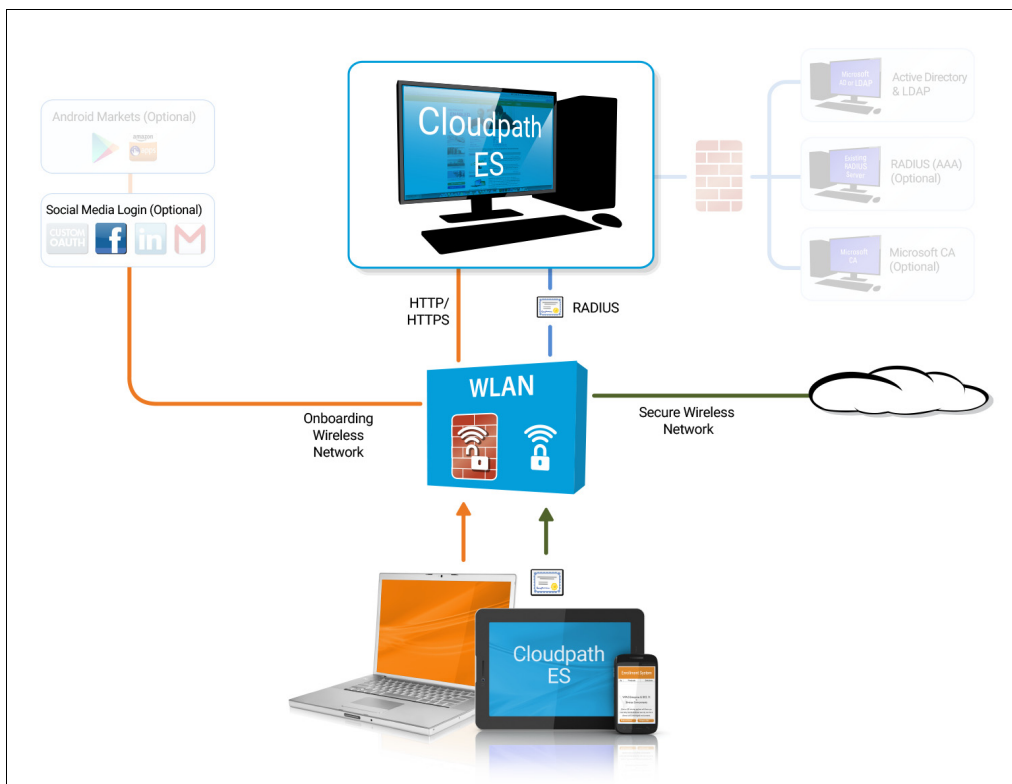
Setting Up Third-Party Authentication Within Cloudpath ES System Using Facebook™

Overview

The Cloudpath Enrollment System (ES) automates WPA2-Enterprise configuration on any device that connects to the network and automatically connects the device to a secure SSID. This *Automated Device Enablement* means authorized devices onboard simply and securely, with the appropriate level of access. By using the ES with Automated Device Enablement, the user gets configured and connected, regardless of device type, ownership, or level of access.

The flexible workflow engine gives network administrators further control by blending traditional policies (Active Directory, RADIUS, and integration with 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 ES Onboarding System



Setting Up the Facebook Application

Before configuring the Enrollment System for third-party authentication, you must set up the Facebook application.

What You Need

- Facebook login credentials
- Name and Namespace for your application
- Display Name for your application
- Domain and Website URL for your application

Facebook App Configuration

This section describes how to create the Facebook application to use with the Enrollment System.

Create the New App

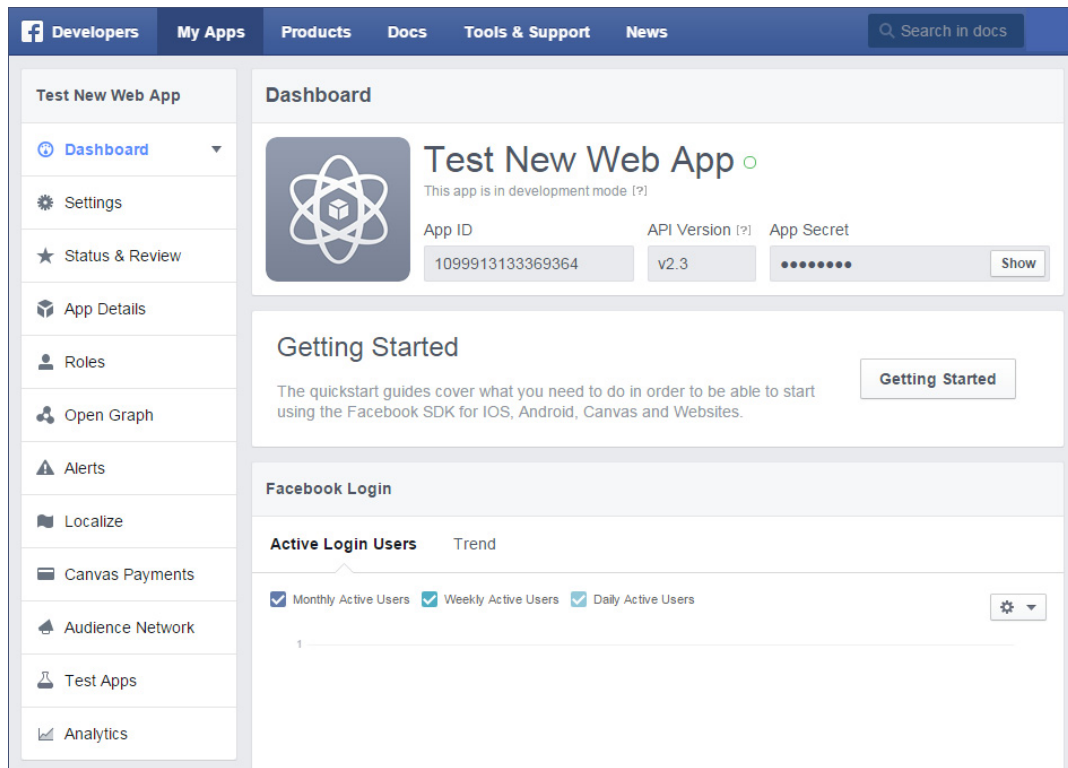
1. Go to <http://developer.facebook.com>.
2. Click the *My Apps* tab and log in using your Facebook credentials.
3. From the *My Apps* tab, select *Add a New App*.
4. On the *Add a New App* page, select *Website*. This automatically brings up the *Quick Start for Website* wizard.

Note >>

This guide describes how to create the App ID using the *Developer Dashboard*, not the *Quick Start* wizard.

5. On the top right of the *Quick Start*, click *Skip and Create ID*.
6. Enter the name of the new application and click *Create New FB App ID*.
7. On the *Create New App ID* page, enter the app *Display Name* and *Namespace*.
8. Select a *Category*, and click *Create App ID*.
9. Complete the *Captcha Security Check*.
10. The *Apps* page for your application opens with the *Dashboard* tab selected.

FIGURE 2. Facebook Apps Dashboard



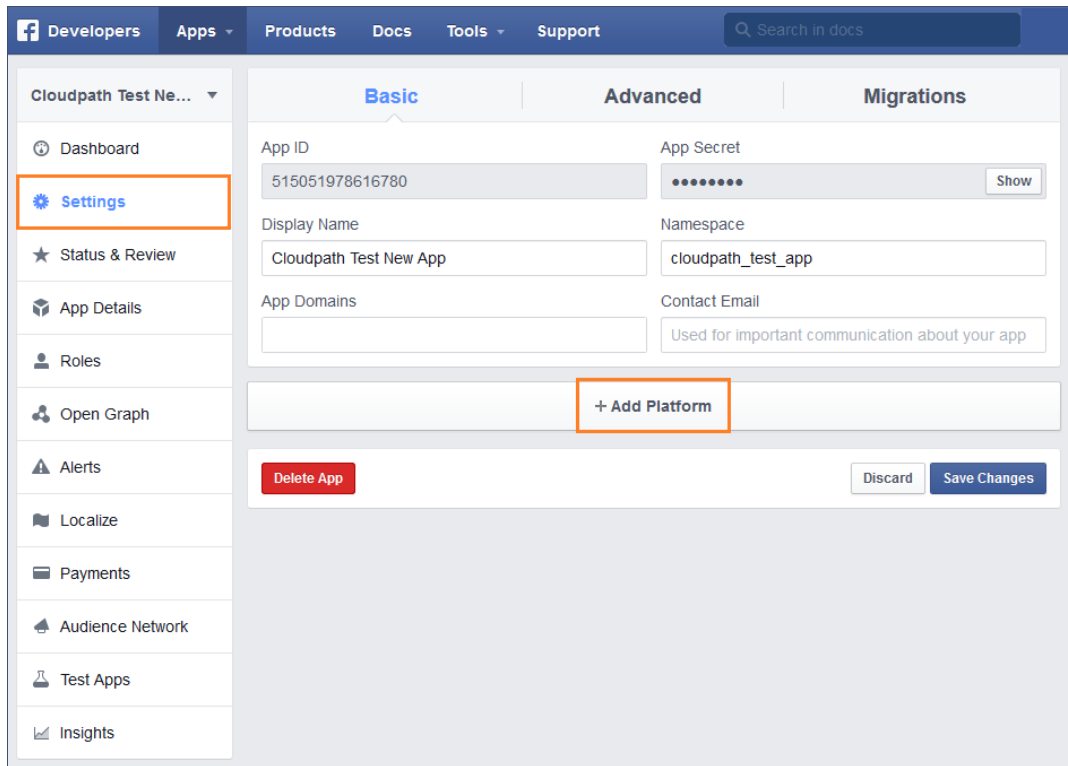
Tip >>

Make note of your **App ID** and **App Secret**. You need this information to set up the Facebook authentication within the Enrollment System.

Configure Basic App Settings

1. Select the left-side *Settings* tab.
2. If needed, select the top-menu *Basic* tab.
3. Enter the *App Domain(s)* and *Contact Email* for your application.
4. Click *Add Platform*.

FIGURE 3. Basic Settings



5. On the *Select Platform* window, select *Website*.
6. Enter the *Site URL* for your site.

Configure Advanced App Settings

1. While on the left-menu *Settings* tab, select the top-menu *Advanced* tab.
2. In the OAuth section, enter the *Valid OAuth Redirect URI*. The URI format should be similar to `https://test.company.com/enroll/Test/Production/facebook`.

FIGURE 4. Advanced Settings

The screenshot displays the 'Advanced' settings for a Facebook test app. The left sidebar contains navigation options: Dashboard, Settings (highlighted), Status & Review, App Details, Roles, Open Graph, Alerts, Localize, Canvas Payments, Audience Network, Test Apps, and Analytics. The main content area is divided into three tabs: Basic, Advanced (selected), and Migrations. Under the 'Advanced' tab, the 'Native or desktop app?' toggle is disabled. The 'Deauthorize Callback URL' field is empty. The 'App Restrictions' section shows 'Contains Alcohol' disabled, 'Age Restriction' set to 'Anyone (13+)', and 'Country Restricted' disabled. The 'Security' section includes 'Server IP Whitelist', 'Update Settings IP Whitelist', 'Update Notification Email', and 'Client Token' (3db506f084e092bcc4d0ee66d5fd1969). The 'OAuth Settings' section shows 'Client OAuth Login' enabled, 'Embedded browser OAuth Login' disabled, and 'Valid OAuth redirect URIs' set to 'https://test.company.com/enroll/Test/Production/facebook'. The 'Settings' option in the sidebar and the 'Advanced' tab are highlighted with orange boxes.

3. Click *Save Changes*.

Note >>

Your changes may take several minutes to propagate to all servers.

Setting Up the Enrollment System

After the Facebook application is set up, you configure an authentication step in the Enrollment System to prompt the user for the Facebook credentials.

What You Need

- Facebook App ID
- Facebook App Secret
- (Optional) Scope parameters, and Event ID, Page ID, or Group ID for your Facebook application

Enrollment System Configuration

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

FIGURE 5. Enrollment System Third-Party Authentication Setup

Third-Party Authentication Setup
Cancel Save

Reference Information

Name:

Description:

Facebook Configuration

Facebook Supported?

App ID:

Secret:

Scope:

Event ID:

Page ID:

Group ID:

Google Configuration

Google Supported?

Client ID:

Client Secret:

LinkedIn Configuration

LinkedIn Supported?

API Key:

Secret:

Custom OAuth 2.0

Custom Oauth 2.0 Configuration

Name:

Description:

Icon: No file chosen

Consumer Key:

Consumer Secret:

Access Token Endpoint URL:

Authorize URL:

Data URL:

Scope:

4. Enter the *Name* and *Description* of this configuration.
5. In the Facebook Configuration section, check the *Facebook Supported?* box and complete the following fields:
 - **App ID** - The *App ID* from the Facebook application you just created.
 - **Secret** - The *App Secret* from the Facebook application you just created.

- Optional settings:

- Scope** - A comma separated list of permission names that allows the application to read or write additional data (such as email or user_group) from the Facebook application. If scope is left blank, you can only obtain the *Facebook profile ID, URL, and Name*.

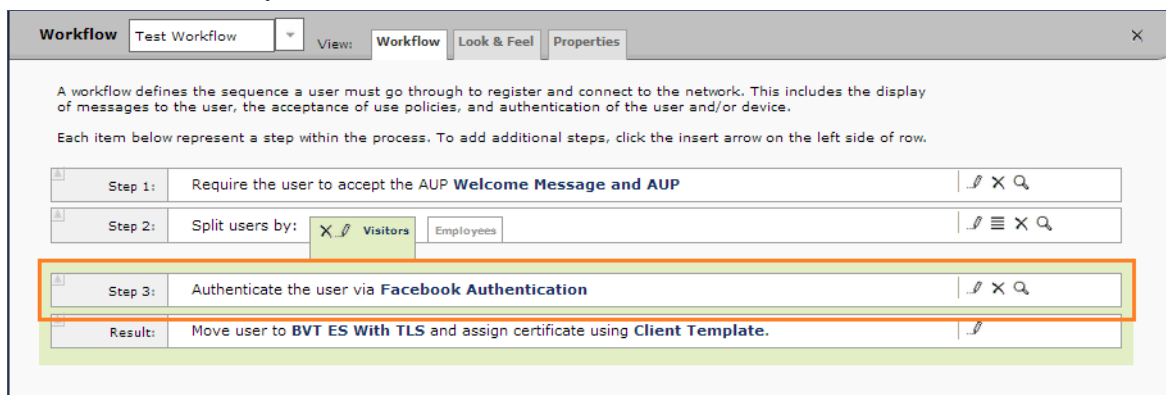
- Event ID, Page ID, and Group ID** - Allows the application to provide additional information about the user.

Note >>

You must add *user_likes* in the scope to use *Page ID* and you must add *user_groups* in the scope to use a *Group ID*.

6. Click Save. The Facebook authentication step is added to your enrollment workflow.

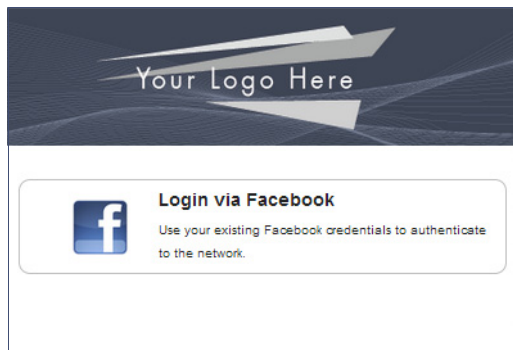
FIGURE 6. Enrollment System Workflow



User Experience

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

FIGURE 7. User Prompt for Facebook Authentication



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

Terminology

The following table defines terminology for the Facebook authentication feature.

TABLE 1. Sponsored Guest Access Terminology

Term	Definition
App ID	The ID that Facebook assigns to your application.
App Secret	The secret key that allows your app to capture the Facebook request objects.
Enrollment	The process of a user becoming authenticated and ultimately gaining network access.
Enrollment workflow	The sequence a user must go through to register and connect to the network.
Facebook app	A web application directly within Facebook that allows you to add Facebook capabilities to an external website.
Onboarding Wireless Network	An open wireless network that provides access to the Enrollment System.
Secure Wireless Network	A WPA2-Enterprise wireless network.
Scope parameters	Permissions that allows your application to obtain additional data from the Facebook application.
Third-Party Authentication	Allow access to a network using a secure login through an outside application.

About Cloudpath

Cloudpath Networks, Inc. provides software solutions and services that simplify the adoption of standards-based security, including WPA2-Enterprise and 802.1X, in diverse BYOD environments. Our goal is to make secure as simple as insecure; simple for network administrators to deploy and simple for users to access.

To learn more about the Enrollment System and how it can simplify your wireless environment, visit www.cloudpath.net or contact a Cloudpath representative.

If you need technical assistance, discover a bug, or have other technical questions, email support at support@cloudpath.net.

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