

Cloudpath

Enrollment System

Setting Up Third-Party Authentication Within Cloudpath Using LinkedIn™

Software Release 5.1

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

Document Type: Configuration

Audience: Network Administrator



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Setting Up Third-Party Authentication Within Cloudpath Using LinkedIn™

Setting Up the LinkedIn Application

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

What You Need

- LinkedIn login credentials
- Name and Description for your application
- Website URL for your application
- JavaScript API Domain

LinkedIn App Configuration

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

How to Set Up the LinkedIn App

1. Navigate to <http://developer.Linkedin.com>.
2. Select *MyApps*.
3. Sign in to your LinkedIn account.
4. Click *Create Application* (or locate an existing application from the *My Apps* menu).
5. The My Applications page displays.

FIGURE 1. Create Applications


Create a New Application

Company Name:*
Cloudpath Networks ▼

Name:*
CloudpathTestApp

Description:*

Application Logo:*



Application Use:*
Other ▼

Website URL:*
https://anna43.cloudpath.net/enroll/Anna43TestBVT/Productio

Business Email:*
test@cloudpath.net

Business Phone:*
303-555-1212

I have read and agree to the [LinkedIn API Terms of Use](#).

6. Enter the following information for your application:

- Company Name
- Name (of your application).
- Description

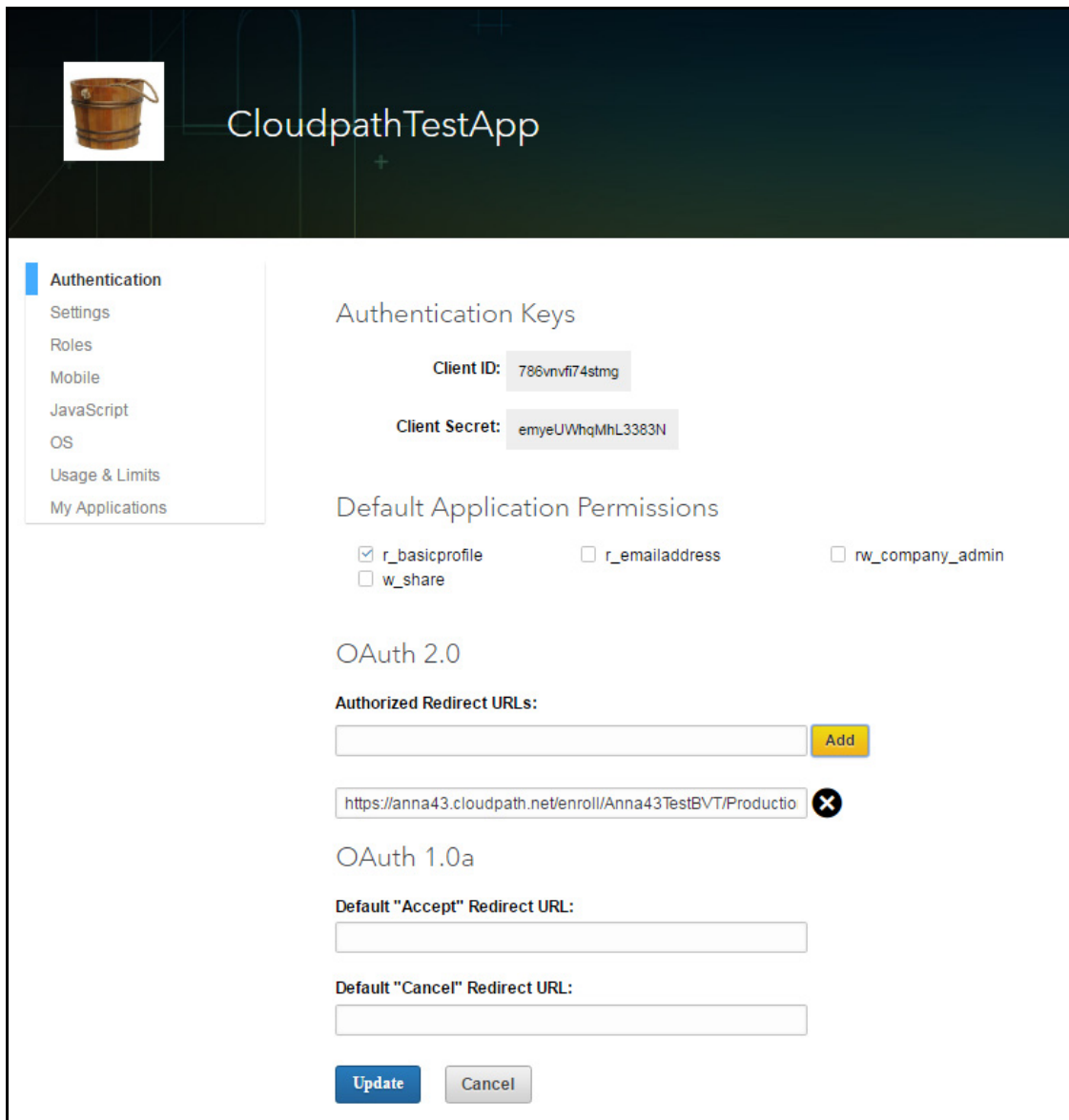
- Upload an application logo
- Application Use
- Website URL

Note >>

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

- Business Email
 - Business Phone
7. Agree to the *Terms of Service* and click *Submit*.
 8. The application is created and the configuration page displays.

FIGURE 2. Application Configuration Page



The screenshot displays the configuration page for an application named "CloudpathTestApp". The page has a dark header with the application name and a logo of a wooden bucket. A sidebar on the left lists navigation options: Authentication (selected), Settings, Roles, Mobile, JavaScript, OS, Usage & Limits, and My Applications. The main content area is titled "Authentication Keys" and shows the Client ID as "786vnmfi74stmg" and the Client Secret as "emyeUWhqMhL3383N". Below this is the "Default Application Permissions" section with checkboxes for "r_basicprofile" (checked), "w_share", "r_emailaddress", and "rw_company_admin". The "OAuth 2.0" section includes an "Authorized Redirect URLs:" label, an empty input field with an "Add" button, and a list of URLs with a remove button (X). One URL is "https://anna43.cloudpath.net/enroll/Anna43TestBVT/Productio". The "OAuth 1.0a" section has fields for "Default 'Accept' Redirect URL:" and "Default 'Cancel' Redirect URL:". At the bottom are "Update" and "Cancel" buttons.

1. Navigate to the Authentication tab.
2. In the Auth 2.0 section, enter the *Authorized Redirect URLs* and click *Add*.

Note >>

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

3. Click *Update* to save configuration changes to your application.

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

Setting Up Cloudpath

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

What You Need

- LinkedIn application Client ID (*API Key* in previous versions)
- LinkedIn application Client Secret (*Secret Key* in previous versions)

Cloudpath Configuration

This section describes how to add a step to the enrollment workflow to authenticate a user using the LinkedIn 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. Place the authentication step after the User Type option.
4. 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 3. Cloudpath Third-Party Authentication Setup

Third-Party Authentication Setup

Display Name: *

Description:

Facebook Configuration

Facebook Supported?

Google Configuration

Google Supported?

LinkedIn Configuration

LinkedIn Supported?

Instructions: The LinkedIn Developer's Console is available at <https://developer.linkedin.com>. From My Apps, create a new app for a website. You will need the Client ID and Client Secret for the app.

API Key:

Secret Key:

Redirect URL: LinkedIn will need a list of acceptable "Authorized Redirect URLs". These must be the full enrollment URL + "linkedin", such as <https://test71.cloudpath.net/enroll/Regression/Test/linkedin>.

Based on the current deployment locations, the Redirect URLs should be:
<https://anna43.cloudpath.net/enroll/Anna43Test/EVT/Production/linkedin>

Custom OAuth 2.0

Custom OAuth 2.0 Configuration

5. Enter the *Name* and *Description* of this configuration.
6. In the LinkedIn Configuration section, check the *LinkedIn Supported?* box.

7. Enter the *Client ID* (API Key in previous versions) and *Client Secret* (Secret Key in previous versions) from the LinkedIn application.

Note >>

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

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

FIGURE 4. Cloudpath Workflow

The screenshot displays the 'Configuration > Workflows' interface. At the top right is an 'Add Workflow' button. Below it is a table with the following data:

Workflows	Status	Enrollment Portal URL	Last Publish Time
Production	● Published	/enroll/Anna43TestBVT/Production/	20170427 1540 MDT

Below the table are tabs for 'Properties', 'Enrollment Process', 'Look & Feel', 'Snapshot(s)', and 'Advanced'. The 'Enrollment Process' tab is active, showing a sequence of steps:

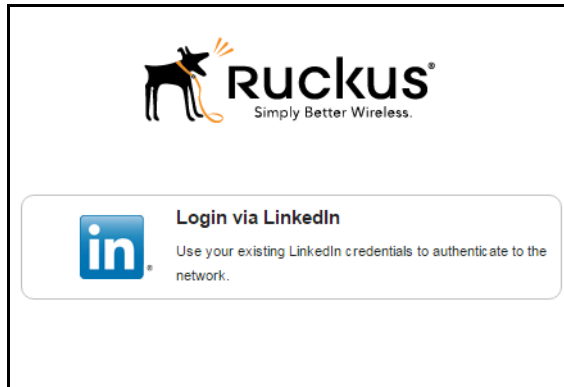
- Step 1: Require the user to accept the AUP **Welcome Message and AUP**
- Step 2: All matches in: **Visitors** Employees +
- Step 3: Authenticate the user via **LinkedIn Authentication**
- Result: Move user to **eng-Anna43** and assign certificate using **Guest Policy Templat...**

The Step 3 and Result sections are highlighted with a light green background.

User Experience

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

FIGURE 5. User Prompt for LinkedIn Authentication



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