

# Cloudpath

## Enrollment System

# Setting Up Third-Party Authentication Within Cloudpath Using LinkedIn™

Software Release 5.0

December 2016

**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™

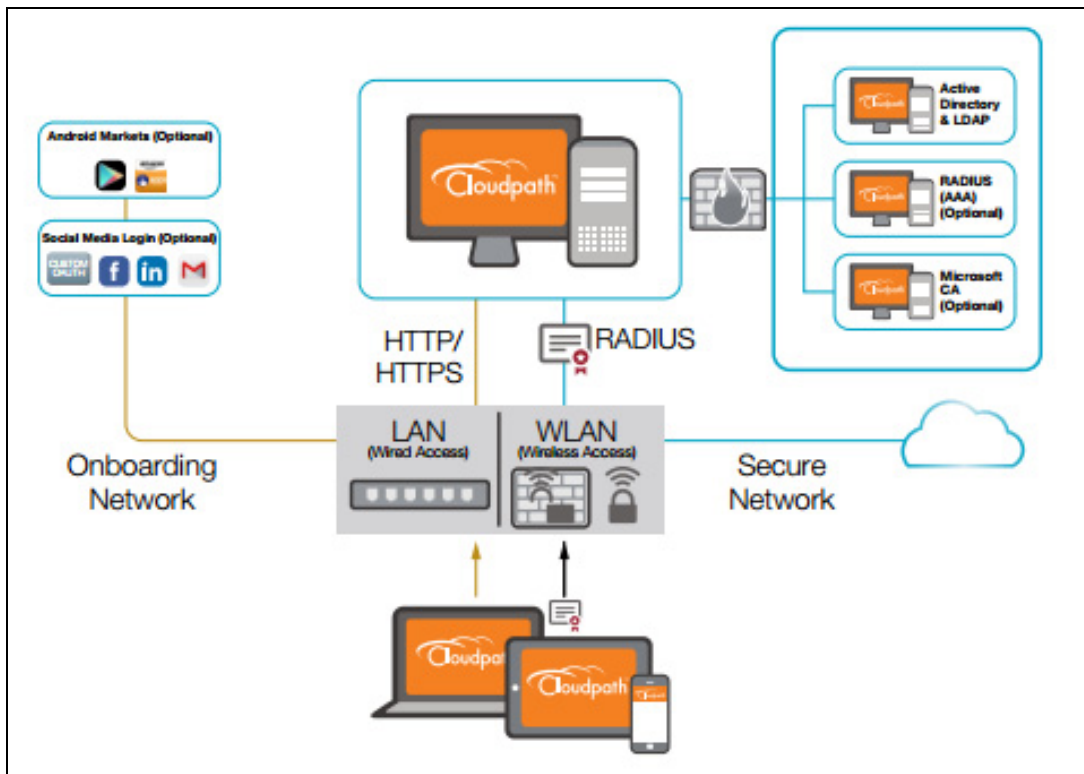
## Cloudpath Security and Policy Management

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 LinkedIn Application

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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 2. Create Applications

### Create a New Application


**Company Name:\***  
Create a new Company ▾

**Company Name:\***  
Cloudpath Networks

**Name:\***  
Cloudpath50

**Description:\***  
Test LI app.

**Application Logo:\***

 [Select File to Upload](#)

**Application Use:\***  
Other ▾

**Website URL:\***  
<https://anna248.cloudpath.net/enroll/Anna248TestBVT/Product>

**Business Email:\***  
anna@cloudpath.net

**Business Phone:\***  
303-867-5309

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

[Submit](#) [Cancel](#)

6. Enter the following information for your application:

- Company Name
- Name (of your application).

- Description
- Upload an application logo
- Application Use
- Website URL

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**Note >>**

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

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- 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 3. Application Configuration Page

**Authentication**

- Settings
- Roles
- Mobile
- JavaScript
- OS
- Usage & Limits
- My Applications

### Authentication Keys

**Client ID:** 77qzz1333f53us

**Client Secret:** r6bo7RCdFEMJAXIL

### Default Application Permissions

r\_basicprofile     r\_emailaddress     rw\_company\_admin  
 w\_share

### OAuth 2.0

**Authorized Redirect URLs:**

https://anna248.cloudpath.net/enroll/Anna248TestBVT/Produc **Add**

### OAuth 1.0a

**Default "Accept" Redirect URL:**

**Default "Cancel" Redirect URL:**

**Update** **Cancel**

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

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**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.

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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

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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 4. Cloudpath Third-Party Authentication Setup

**Third-Party Authentication Setup**
Cancel < Back Save

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**Reference Information**

**Name:**  \*

**Description:**

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**Facebook Configuration**

**Facebook Supported?**

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**Google Configuration**

**Google Supported?**

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**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://anna248.cloudpath.net/enroll/Anna248TestBVT/Production/linkedin>**

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**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.

- 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.

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

**FIGURE 5.** Cloudpath Workflow

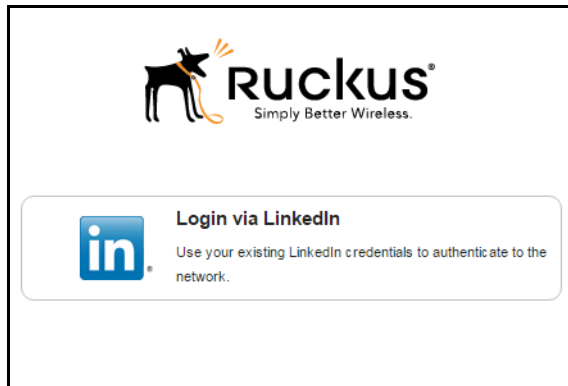
The screenshot displays the 'Workflow' configuration window for 'LinkedIn Config'. It includes a 'View' dropdown set to 'Workflow' and tabs for 'Look & Feel' and 'Properties'. A descriptive text explains that a workflow defines the sequence of steps for user registration and connection. Below this, a list of steps is shown:

- Step 1:** Require the user to accept the AUP **Welcome Message and AUP**
- Step 2:** Split users by: Visitors, Employees, **Partners**
- Step 3:** Authenticate the user via **LinkedIn Authentication** (highlighted with an orange border)
- Step 4:** Split users by: Internet-Only, **Internal Access**
- Step 5:** Prompt the user for a voucher from **Partner Internal Access Vouchers**
- Step 6:** Display the message **Contractor Welcome Message**
- Result:** Move user to **Test Device Configuration** and assign certificate using **Client**.

## User Experience

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

**FIGURE 6.** 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.