

Cloudpath

Enrollment System

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

Software Release 4.3

April 2016

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

Document Type: Configuration

Audience: Network Administrator



Using APIs to Interact With External Systems

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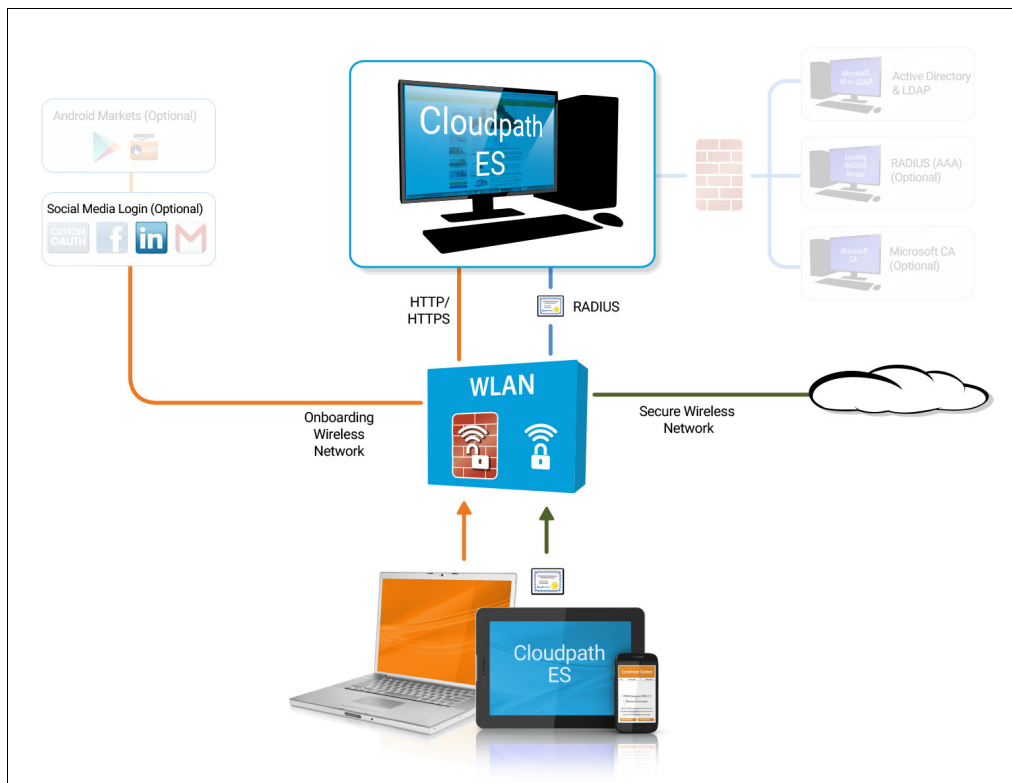
Setting Up Third-Party Authentication Within Cloudpath ES Using LinkedIn™

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 LinkedIn Application

Before configuring the Cloudpath ES 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

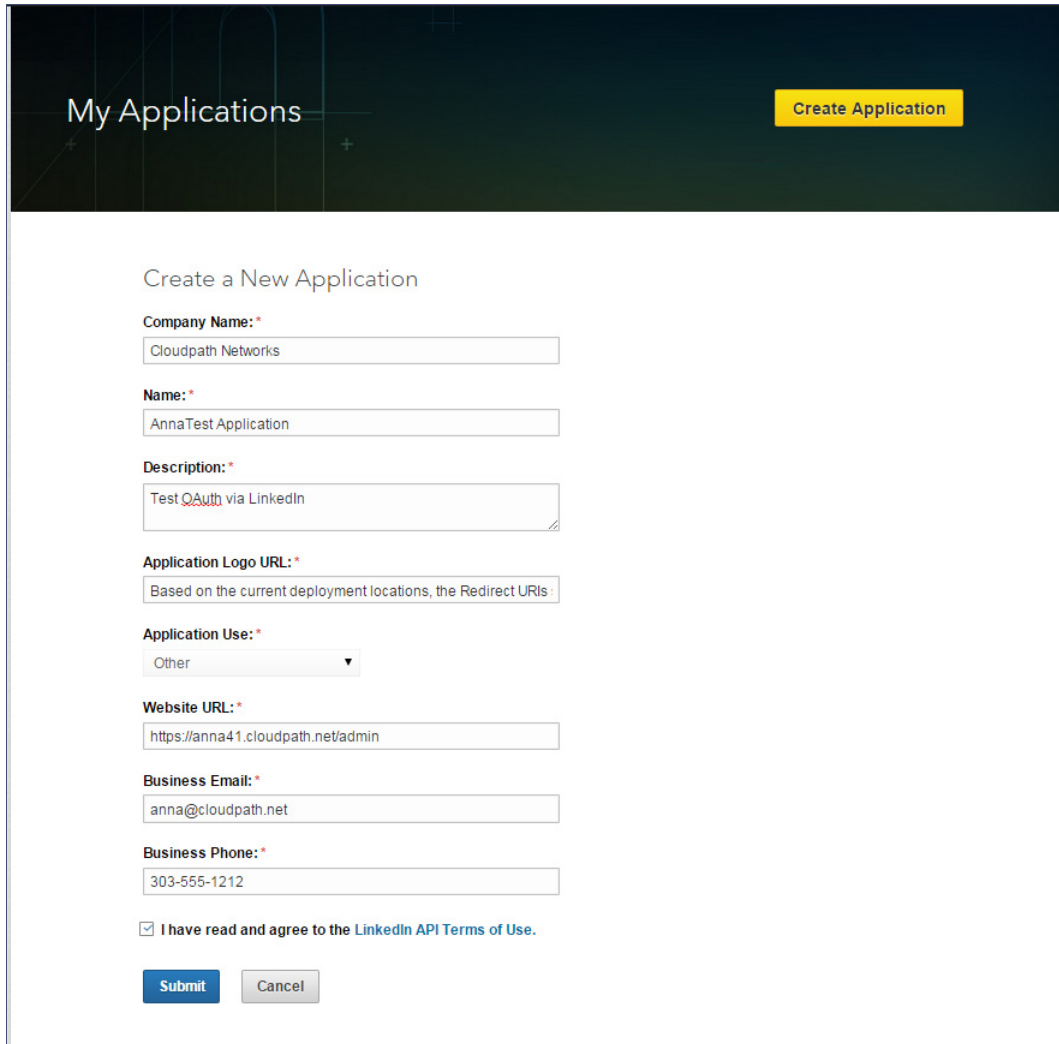
LinkedIn App Configuration

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

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 appears.

FIGURE 2. Create Applications



My Applications Create Application

Create a New Application

Company Name: *
Cloudpath Networks

Name: *
AnnaTest Application

Description: *
Test OAuth via LinkedIn

Application Logo URL: *
Based on the current deployment locations, the Redirect URIs

Application Use: *
Other

Website URL: *
https://anna41.cloudpath.net/admin

Business Email: *
anna@cloudpath.net

Business Phone: *
303-555-1212

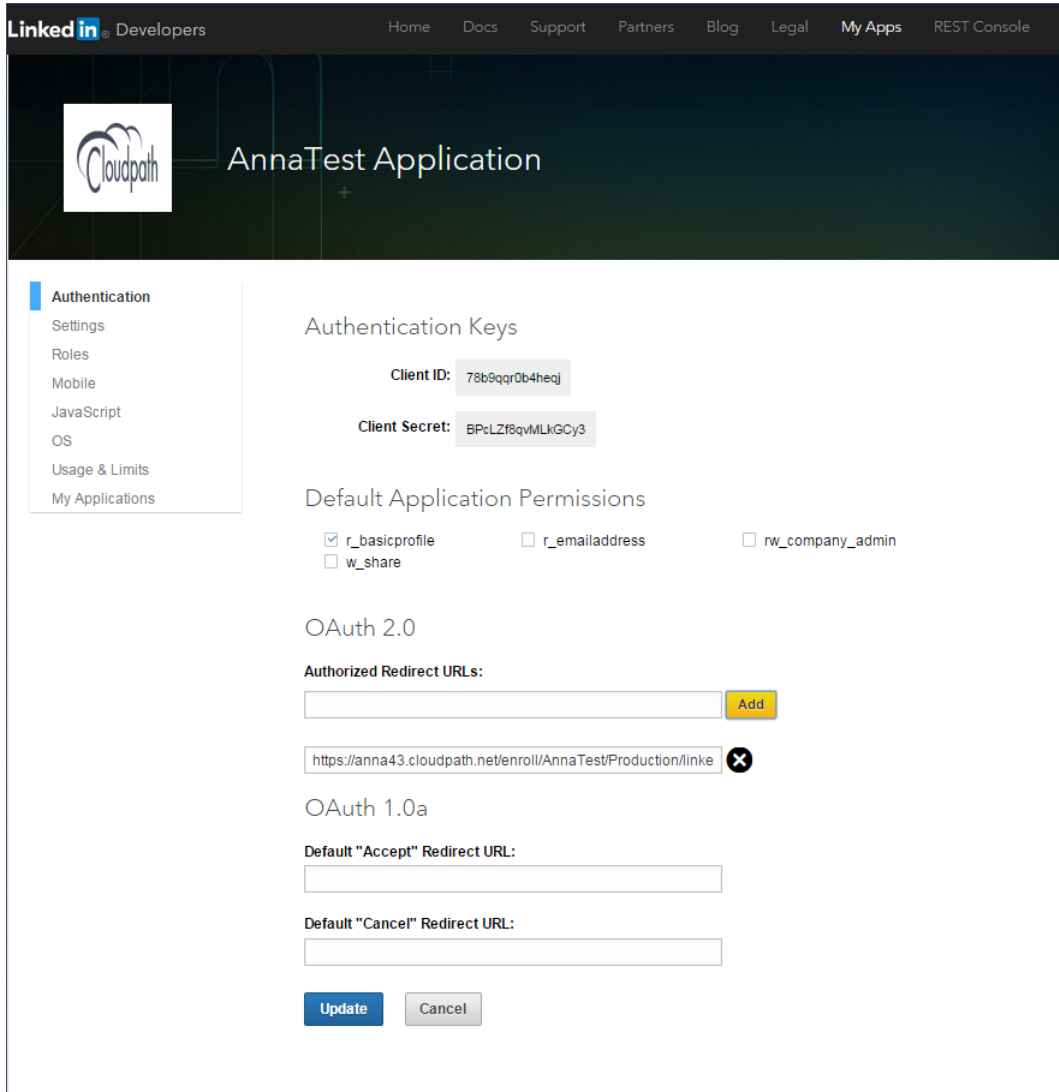
I have read and agree to the [LinkedIn API Terms of Use](#).

6. Enter the following information for your application:

- Company Name
- Name (of your application).
- Description
- Application Logo URL
- Application Use

- Website URL
 - 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



9. 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.

10. 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 the Cloudpath ES.

Setting Up the Cloudpath ES

After the LinkedIn application is set up, you configure an authentication step in the Cloudpath ES 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 ES 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 ES Third-Party Authentication Setup

Third-Party Authentication Setup Cancel < Back 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:

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 5. Cloudpath ES Workflow

Workflow LinkedIn Config View: Workflow Look & Feel Properties

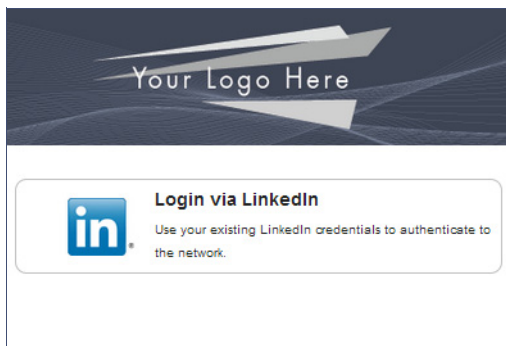
A workflow defines the sequence a user must go through to register and connect to the network. This includes the display of messages to the user, the acceptance of use policies, and authentication of the user and/or device.

Each item below represent a step within the process. To add additional steps, click the insert arrow on the left side of row.

Step 1:	Require the user to accept the AUP Welcome Message and AUP	X Q
Step 2:	Split users by: Visitors Employees Partners	X Q
Step 3:	Authenticate the user via LinkedIn Authentication	X Q
Step 4:	Split users by: Internet-Only Internal Access	X Q
Step 5:	Prompt the user for a voucher from Partner Internal Access Vouchers	X Q
Step 6:	Display the message Contractor Welcome Message	X Q
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.

Additional Documentation

You can find detailed information in the Cloudpath ES configuration guides, located on the left-menu *Support* tab of the ES Admin UI.

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 Cloudpath ES 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.

Contact Information

General Inquiries: info@cloudpath.net

Support: support@cloudpath.net

Sales: sales@cloudpath.net

Media: media@cloudpath.net

Marketing: marketing@cloudpath.net

Phone: +1 303.647.1495 (US)

+1 866.472.6053 (US)

+44 (01) 161.261.1400 (UK)

Fax:+1 760.462.4569

Address:1120 W 122nd Ave, Suite 302

Westminster, CO 80234 USA