



# CloudRail

**tutorialspoint**

S I M P L Y E A S Y L E A R N I N G

[www.tutorialspoint.com](http://www.tutorialspoint.com)



<https://www.facebook.com/tutorialspointindia>



<https://twitter.com/tutorialspoint>

## About the Tutorial

---

CloudRail is an API integration solution that speeds up the process of integrating third-party APIs into an application and maintaining them. It does so by providing libraries for multiple platforms featuring abstraction layers that combine similar services behind a common interface.

## Audience

---

This tutorial is meant for software developers who want to learn how to lose less time on API integrations!

## Prerequisites

---

CloudRail provides libraries for Android, Java, Node.js, and iOS (Objective-C and Swift). Basic knowledge of the respective platform is required to use the corresponding library.

You can quickly sign up for a free account at <https://developers.cloudrail.com> and get a license key which you will need to use the library.

## Copyright & Disclaimer

---

© Copyright 2017 by Tutorials Point (I) Pvt. Ltd.

All the content and graphics published in this e-book are the property of Tutorials Point (I) Pvt. Ltd. The user of this e-book is prohibited to reuse, retain, copy, distribute or republish any contents or a part of contents of this e-book in any manner without written consent of the publisher.

We strive to update the contents of our website and tutorials as timely and as precisely as possible, however, the contents may contain inaccuracies or errors. Tutorials Point (I) Pvt. Ltd. provides no guarantee regarding the accuracy, timeliness or completeness of our website or its contents including this tutorial. If you discover any errors on our website or in this tutorial, please notify us at [contact@tutorialspoint.com](mailto:contact@tutorialspoint.com)

## Table of Contents

---

About the Tutorial.....	i
Audience.....	i
Prerequisites.....	i
Copyright & Disclaimer.....	i
Table of Contents.....	ii
<b>1. CLOUDRAIL – OVERVIEW.....</b>	<b>1</b>
<b>2. CLOUDRAIL – ANDROID.....</b>	<b>2</b>
<b>3. CLOUDRAIL – JAVA.....</b>	<b>4</b>
<b>4. CLOUDRAIL – NODE.JS.....</b>	<b>6</b>
<b>5. CLOUDRAIL – IOS.....</b>	<b>7</b>
<b>6. CLOUDRAIL – SOCIAL LOGIN.....</b>	<b>9</b>
<b>7. CLOUDRAIL – SETUP.....</b>	<b>10</b>
<b>8. CLOUDRAIL – CODING.....</b>	<b>11</b>

# 1. CloudRail – Overview

CloudRail is an API integration solution that speeds up the process of integrating third-party APIs into an application and maintaining them. It does so by providing libraries for multiple platforms featuring abstraction layers that combine similar services behind a common interface.

## CloudRail – Features

Here is a list of some of the most prominent features of CloudRail:

- **Unified API** – CloudRail bundles multiple web APIs into a single unified API. For instance, the function **upload()** works exactly the same for Dropbox as it does for Google Drive. You can easily integrate whole categories of providers, e.g. Social Logins, or change a provider with a single line of code.
- **API Change Management** – APIs change all the time, leading to broken integrations, unsatisfied customers and even more wasted development time. CloudRail monitors all APIs and maintains the integrations. You get immediate notifications about changes and all you need to do is update the CloudRail library to the latest version – no code changes required.
- **API Statistics** – Understand which APIs and functions are being used most by your customers. Get the necessary insights you need to identify new features or improve marketing campaigns.
- **Direct Data** – None of your data will ever pass a CloudRail server. The system doesn't use a hosted middleware. All data transformation happens in the CloudRail library which is integrated in your App. This means no data privacy concerns, no down-times and no additional SPOF.
- **OAuth Made Simple** – Doing OAuth authentications is a pain. CloudRail makes authorizations as simple as adding a single line of code.

The free version of CloudRail may only be used for non-commercial purpose or testing. Commercial users must purchase a license.

## 2.CloudRail – Android

This section gives an introduction on how to use CloudRail's Android SDK.

### Setup

The easiest way to install is via Maven. If you are using Android Studio with Gradle, it suffices to add the following to your **build.gradle** file –

```
dependencies {
    compile 'com.cloudrail:cloudrail-si-android:2.8.1'
}
```

### Usage

The following example shows how to create a new folder and upload a file from an Android application's assets to the newly created folder on any cloud storage provider.

```
java
CloudRail.setAppKey("[CloudRail License Key]");

// CloudStorage cs = new Box(context, "[clientIdentifier]", "[clientSecret]");
// CloudStorage cs = new OneDrive(context, "[clientIdentifier]", "[clientSecret]");
// CloudStorage cs = new GoogleDrive(context, "[clientIdentifier]", "[clientSecret]");
CloudStorage cs = new Dropbox(context, "[clientIdentifier]", "[clientSecret]");
new Thread() {
    @Override
    public void run() {
        cs.createFolder("/TestFolder"); // <---
        InputStream stream = null;
        try {
            AssetManager assetManager = getAssets();
            stream = assetManager.open("UserData.csv");
            long size = assetManager.openFd("UserData.csv").getLength();
            cs.upload("/TestFolder/Data.csv", stream, size, false); // <---
        } catch (Exception e) {
            // TODO: handle error
        }
    }
}
```

```
    } finally {  
        // TODO: close stream  
    }  
}  
}.start();
```

End of ebook preview

If you liked what you saw...

Buy it from our store @ <https://store.tutorialspoint.com>