

内容审核

# SDK 参考

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<https://www.huawei.com/cn/psirt/vul-response-process>

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<https://securitybulletin.huawei.com/enterprise/cn/security-advisory>

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# 1 内容审核 SDK 简介

## 内容审核概述

内容审核（Content Moderation），是基于图像、文本、音频、视频、音频流、视频流、文档的检测技术，可自动检测涉黄、广告等内容，对用户上传的图片、文字进行内容审核，帮助客户降低业务违规风险。

内容审核以开放API（Application Programming Interface，应用程序编程接口）的方式提供给用户，用户通过实时访问和调用API获取推理结果，帮助用户自动采集关键数据，打造智能化业务系统，提升业务效率。

## SDK 概述

内容审核软件开发工具包（Content Moderation Software Development Kit，简称 Moderation SDK）是对内容审核提供的REST API进行的封装，以简化用户的开发工作。用户通过添加依赖或下载的方式调用API即可实现使用内容审核业务能力的目的。

## 接口与 API 对应关系

内容审核接口与API对应关系请参见[表1-1](#)。

表 1-1 接口与 API 对应关系表

接口	API
文本内容审核（V3）	POST /v3/{project_id}/moderation/text
文本内容审核（V2）	POST /v2/{project_id}/moderation/text
图像内容审核（V3）	POST /v3/{project_id}/moderation/image
图像内容审核（V2）	POST /v2/{project_id}/moderation/image
图像内容审核（批量）	POST /v2/{project_id}/moderation/image/batch
图像内容审核（异步批量）-任务提交	POST /v2/{project_id}/moderation/image/batch/jobs
图像内容审核（异步批量）-处理结果查询	GET /v2/{project_id}/moderation/image/batch

接口	API
图像内容审核（异步批量）-任务列表查询	GET /v2/{project_id}/moderation/image/batch/jobs
创建音频内容审核作业	POST /v3/{project_id}/moderation/audio/jobs
查询音频内容审核作业	GET /v3/{project_id}/moderation/audio/jobs/{job_id}
创建视频内容审核作业	POST /v3/{project_id}/moderation/video/jobs
查询视频内容审核作业	GET /v3/{project_id}/moderation/video/jobs/{job_id}
创建音频流内容审核作业	POST /v3/{project_id}/moderation/audio-stream/jobs
查询音频流内容审核作业	POST /v3/{project_id}/moderation/audio-stream/jobs/stop/{job_id}
创建视频流内容审核作业	POST /v3/{project_id}/moderation/video-stream/jobs
查询视频流内容审核作业	POST /v3/{project_id}/moderation/video-stream/jobs/stop/{job_id}
创建文档内容审核作业	POST /v3/{project_id}/moderation/document/jobs
查询文档审核作业结果	GET /v3/{project_id}/moderation/document/jobs/{job_id}

# 2 申请服务

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申请内容审核服务的具体操作步骤请参见《内容审核API参考》的“[如何调用API > 申请服务](#)”章节。

# 3 获取认证信息

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**步骤1** 登录华为云管理控制台。

**步骤2** 鼠标移动至用户名处，在下拉列表中单击“我的凭证”。

**步骤3** 选择“访问密钥”页签，单击“新增访问秘钥”按钮。

**步骤4** 通过邮箱或者手机进行验证，输入对应的验证码。

**步骤5** 单击“确定”，下载认证账号的AK/SK，AK/SK数据会以本地文件的形式保存，请妥善保管。

----结束

# 4 准备环境

在使用内容审核SDK时，各语言需要准备的环境 参照[表4-1](#)。

表 4-1 开发环境

开发语言	准备项	说明
JAVA	安装JDK	JAVA环境开发配置，支持 Java JDK 1.8 及其以上版本，推荐通过Maven 安装依赖的方式使用JAVA版本SDK。
PYTHON	安装python	python版本sdk支持python3.3以上。
.NET	安装.NET	.NET Standard 2.0 及其以上版本或C# 4.0 及其以上版本。
GO	安装GO	sdk支持 go 1.14 及其以上版本。
PHP	安装PHP	PHP版本sdk包推荐使用php.7.x版本。
Node.js	安装Node.js	Node.js版本sdk支持Node.js 8.x版本。

# 5 SDK 列表及指导文档（通用版）

[API Explorer](#)能根据需要动态生成SDK代码功能，降低您使用SDK的难度，推荐使用。

[SDK中心](#)提供服务SDK依赖引入的方式。

**表5-1** 提供了各个云服务支持的SDK列表，您可以在GitHub仓库查看SDK更新历史、获取安装包以及查看指导文档进行配置。

表 5-1 SDK 列表

编程语言	github地址	指导文档	视频指导
JAVA	<a href="#">huaweicloud-sdk-java-v3</a>	<a href="#">Java SDK使用指导</a>	<a href="#">Java SDK视频指导</a>
PYTHON	<a href="#">huaweicloud-sdk-python-v3</a>	<a href="#">Python SDK使用指导</a>	<a href="#">Python SDK视频指导</a>
.NET	<a href="#">huaweicloud-sdk-net-v3</a>	<a href="#">.Net SDK使用指导</a>	-
GO	<a href="#">huaweicloud-sdk-go-v3</a>	<a href="#">Go SDK使用指导</a>	-
PHP	<a href="#">huaweicloud-sdk-php-v3</a>	<a href="#">PHP SDK使用指导</a>	-
Node.js	<a href="#">huaweicloud-sdk-nodejs-v3</a>	<a href="#">Node.js SDK使用指导</a>	-

# 6 使用 SDK (Java)

## 6.1 Java 开发环境配置

本SDK包要求的JDK版本必须高于JDK8版本，以下步骤以win7环境配置JDK8 64位为例，若已经下载JDK并配置好环境请忽略本章节。

**步骤1** 单击[下载JDK文件](#)。

**步骤2** 下载完成后按照提示安装，位置自选，比如安装到本地“C:\Program Files\Java\jdk1.8.0\_131”。

**步骤3** 配置Java环境变量：右键“计算机 > 属性 > 高级系统设置 > 环境变量”，进行如下操作。

1. 新建系统变量JAVA\_HOME，变量值为实际JDK安装位置。
2. 在Path中添加“%JAVA\_HOME%\bin;%JAVA\_HOME%\jre\bin”（注意用英文分号分隔）。
3. 新建系统变量CLASSPATH，变量值为“%JAVA\_HOME%\lib\dt.jar;%JAVA\_HOME%\lib\tools.jar”。

**步骤4** 打开命令行窗口，输入“java -version”，显示如[图6-1](#)表示配置成功。

图 6-1 Java 版本信息

```
C:\>java -version
java version "1.8.0_131"
Java(TM) SE Runtime Environment (build 1.8.0_131-b11)
Java HotSpot(TM) 64-Bit Server VM (build 25.131-b11, mixed mode)
```

----结束

## 6.2 SDK 获取和安装

JAVA版本，内容审核服务推荐您通过 Maven 安装依赖的方式使用华为云 Java SDK：

**步骤1** 首先您需要在您的操作系统中 [下载](#) 并 [安装](#)Maven 。

**步骤2** 安装配置完成后，输入命令“mvn -v”，显示如下图 Maven版本信息 表示成功。

```
D:\>mvn -v
D:\
Apache Maven 3.3.9 (bb52d8502b132ec0a5a3f4c09453c07478323dc5; 2015-11-11T00:41:47+08:00)
Maven home: D:\maven\apache-maven-3.3.9\bin\..
Java version: 1.8.0_262, vendor: Huawei Technologies Co., Ltd
Java home: D:\develop\jdk_1.8\jre
Default locale: zh_CN, platform encoding: GBK
OS name: "windows 10", version: "10.0", arch: "amd64", family: "dos"
```

**步骤3** Maven安装完成后，可根据开发需要直接引入依赖到已有的Maven工程或先用开发工具创建Maven工程。

创建项目以idea开发工具为例(已有Maven工程可跳过此步骤)：

1. 打开IntelliJ IDEA 开发工具。
2. 单击File - New - project...
3. 在New Project弹窗 单击-Maven-单击Next。
4. 输入GroupId和ArtifactId，单击Next。
5. 输入Project name 和 Project location，单击Finish。

**步骤4** 在Maven 项目的 pom.xml 文件加入相应版本的依赖项即可。

以引入3.0.55版本的内容审核SDK为例。请在[SDK中心](#)获取最新的sdk包版本，替换代码中的版本。

```
<dependency>
  <groupId>com.huaweicloud.sdk</groupId>
  <artifactId>huaweicloud-sdk-moderation</artifactId>
  <version>3.0.55</version>
</dependency>
```

示例代码因需要输出结果更直观，所以新增fastjson的依赖（如接入不涉及此项，可忽略并在示例代码中删除相关内容），依赖如下：

```
<dependency>
  <groupId>com.alibaba</groupId>
  <artifactId>fastjson</artifactId>
  <version>1.2.70</version>
</dependency>
```

----结束

## 6.3 SDK 调用示例

### 6.3.1 文本审核

#### 6.3.1.1 文本内容审核（V3）

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用TextDetectionDataReq类的withText方法配置待检测的文本信息，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
```



```
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.core.region.Region;
import com.huaweicloud.sdk.moderation.v3.*;
import com.huaweicloud.sdk.moderation.v3.model.*;

public class RunTextModerationSolution {

    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
        // 中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
        // 变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        ModerationClient client = ModerationClient.newBuilder()
            .withCredential(auth)
            .withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如北京
            .build();
        RunTextModerationRequest request = new RunTextModerationRequest();
        TextDetectionReq body = new TextDetectionReq();
        TextDetectionDataReq databody = new TextDetectionDataReq();
        databody.withText("test");
        body.withData(databody);
        body.withEventType("comment");
        request.withBody(body);
        try {
            RunTextModerationResponse response = client.runTextModeration(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

- 控制台输出200即表示程序执行成功，[文本内容审核结果](#)输出到控制台。

```
class RunTextModerationResponse {
    requestId: 308b6ad2740e51de73597da9fdc94ee1
    result: class TextDetectionResult {
        suggestion: pass
        label: normal
        details: []
    }
}
```

### 6.3.1.2 文本内容审核 (V2)

- 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用TextDetectionItemsReq类的withText方法配置待检测的文本信息，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
package com.huaweicloud.sdk.test;

import com.alibaba.fastjson.JSON;
```

```
import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.moderation.v2.ModerationClient;
import com.huaweicloud.sdk.moderation.v2.region.ModerationRegion;
import com.huaweicloud.sdk.moderation.v2.model.RunTextModerationResponse;
import com.huaweicloud.sdk.moderation.v2.model.TextDetectionReq;
import com.huaweicloud.sdk.moderation.v2.model.RunTextModerationRequest;
import com.huaweicloud.sdk.moderation.v2.model.TextDetectionItemsReq;

import java.util.List;
import java.util.ArrayList;

public class RunTextModerationSolution {

    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
        // 中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
        // 变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        ModerationClient client = ModerationClient.newBuilder()
            .withCredential(auth)
            .withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如北京
            .build();
        RunTextModerationRequest request = new RunTextModerationRequest();
        TextDetectionReq body = new TextDetectionReq();
        List<TextDetectionItemsReq> listbodyItems = new ArrayList<>();
        listbodyItems.add(
            new TextDetectionItemsReq()
                .withText("text") //此处输入待检测文本
                .withType("content")
        );
        List<String> listbodyCategories = new ArrayList<>();
        listbodyCategories.add("ad");
        listbodyCategories.add("abuse");
        listbodyCategories.add("porn");
        listbodyCategories.add("contraband");
        listbodyCategories.add("flood");
        body.withItems(listbodyItems);
        body.withCategories(listbodyCategories);
        request.withBody(body);
        try {
            RunTextModerationResponse response = client.runTextModeration(request);
            System.out.println(response.getHttpStatusCode());
            System.out.println(JSON.toJSONString(response));
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

2. 控制台输出200即表示程序执行成功，[文本内容审核结果](#)输出到控制台。

```
200
{"result":{"suggestion":"block","detail":{"contraband":["亚砷酸钾"],"porn":["luo聊"]}},"httpStatusCode":200}
```

## 6.3.2 图像审核

### 6.3.2.1 图像内容审核 (V3)

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用ImageDetectionReq类的withUrl或withImage方法配置图像信息（image和url参数二选一），示例中以url为例配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.moderation.v3.region.ModerationRegion;
import com.huaweicloud.sdk.moderation.v3.*;
import com.huaweicloud.sdk.moderation.v3.model.*;

import java.util.List;
import java.util.ArrayList;

public class CheckImageModerationSolution {

    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
        // 中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
        // 变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");
        String projectId = "project_id";

        ICredential auth = new BasicCredentials()
            .withProjectId(projectId)
            .withAk(ak)
            .withSk(sk);

        ModerationClient client = ModerationClient.newBuilder()
            .withCredential(auth)
            .withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如北京
            .build();
        CheckImageModerationRequest request = new CheckImageModerationRequest();
        ImageDetectionReq body = new ImageDetectionReq();
        List<String> listbodyCategories = new ArrayList<>();
        listbodyCategories.add("porn");
        body.withUrl("http://www.xxxx.xxx");
        body.withCategories(listbodyCategories);
        body.withEventType("head_image");
        request.withBody(body);
        try {
            CheckImageModerationResponse response = client.checkImageModeration(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
        }
    }
}
```

```
        System.out.println(e.getErrorCode());  
        System.out.println(e.getErrorMsg());  
    }  
}
```

2. 控制台输出200即表示程序执行成功，[图像内容审核结果](#)输出到控制台。

```
class CheckImageModerationResponse {  
    requestId: 63b6b19eb9fa1db05d2f87f970472995  
    result: class ImageDetectionResult {  
        suggestion: block  
        category: image_text  
        details: [class ImageDetectionResultDetail {  
            suggestion: block  
            category: image_text  
            confidence: 1.0  
            faceLocation: null  
            qrLocation: class QRLocationDetail {  
                topLeftX: 74  
                topLeftY: 66  
                bottomRightX: 151  
                bottomRightY: 142  
            }  
            qrContent: http://xxxxxxxxxx  
            segments: null  
            label: qr_code  
        }, class ImageDetectionResultDetail {  
            suggestion: block  
            category: image_text  
            confidence: 0.98779297  
            faceLocation: null  
            qrLocation: null  
            qrContent: null  
            segments: null  
            label: ad  
        }, class ImageDetectionResultDetail {  
            suggestion: block  
            category: image_text  
            confidence: 1.0  
            faceLocation: null  
            qrLocation: null  
            qrContent: null  
            segments: null  
            label: qr_code  
        }  
    ]  
    ocrText: xxxxxxxxx  
}
```

### 6.3.2.2 图像内容审核 (V2)

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用ImageDetectionReq类的withUrl或withImage方法配置图像信息（image和url参数二选一），示例中以url为例配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
package com.huaweicloud.sdk.test;
```

```
import com.alibaba.fastjson.JSON;
```

```
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.moderation.v2.ModerationClient;  
import com.huaweicloud.sdk.moderation.v2.region.ModerationRegion;  
import com.huaweicloud.sdk.moderation.v2.model.RunImageModerationRequest;
```

```
import com.huaweicloud.sdk.moderation.v2.model.ImageDetectionReq;
import com.huaweicloud.sdk.moderation.v2.model.RunImageModerationResponse;

import java.util.List;
import java.util.ArrayList;

public class RunImageModerationSolution {
    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
        // 中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
        // 变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");
        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);
        ModerationClient client = ModerationClient.newBuilder()
            .withCredential(auth)
            .withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如北京四：
            cn-north-4。
            .build();
        RunImageModerationRequest request = new RunImageModerationRequest();
        ImageDetectionReq body = new ImageDetectionReq();
        List<ImageDetectionReq.CategoriesEnum> listbodyCategories = new ArrayList<>();
        listbodyCategories.add(ImageDetectionReq.CategoriesEnum.fromValue("terrorism"));
        listbodyCategories.add(ImageDetectionReq.CategoriesEnum.fromValue("porn"));
        body.withCategories(listbodyCategories);
        body.withModerationRule("default");
        body.withUrl("https://XXX.jpg"); //此处替换为公网可以访问的图片地址
        request.withBody(body);
        try {
            RunImageModerationResponse response = client.runImageModeration(request);
            System.out.println(response.getHttpStatusCode());
            System.out.println(JSON.toJSONString(response));
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

2. 控制台输出200即表示程序执行成功，[图像内容审核结果](#)输出到控制台。

```
200
{"httpStatusCode":200,"result":{"categorySuggestions":{"terrorism":"pass","porn":"pass"},"detail":
{"porn":[{"confidence":0.9883,"label":"normal"},{"confidence":0.0039,"label":"porn"},
{"confidence":0.0078,"label":"sexy"}],"terrorism":[{"confidence":2.0E-4,"label":"terrorist"},
{"confidence":2.0E-4,"label":"fascist"},{"confidence":1.0E-4,"label":"cult"},{"confidence":2.0E-4},
{"confidence":1.0E-4},{"confidence":1.0E-4,"label":"kidnap"},{"confidence":6.0E-4,"label":"riot"},
{"confidence":1.0E-4,"label":"parade"},{"confidence":2.0E-4,"label":"corpse"},
{"confidence":1.0E-4,"label":"bloody"},{"confidence":1.0E-4,"label":"knife"},
{"confidence":1.0E-4,"label":"gun"},{"confidence":2.0E-4,"label":"military_weapon"},
{"confidence":0.0,"label":"special_characters"},
{"confidence":0.9994,"label":"normal"}],"suggestion":"pass"}}
Process finished with exit code 0
```

### 6.3.2.3 图像内容审核（批量）（V2）

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用ImageBatchModerationReq类的withUrls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
package com.huaweicloud.sdk.test;

import com.alibaba.fastjson.JSON;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.moderation.v2.ModerationClient;
import com.huaweicloud.sdk.moderation.v2.region.ModerationRegion;
import com.huaweicloud.sdk.moderation.v2.model.RunImageBatchModerationRequest;
import com.huaweicloud.sdk.moderation.v2.model.ImageBatchModerationReq;
import com.huaweicloud.sdk.moderation.v2.model.RunImageBatchModerationResponse;

import java.util.List;
import java.util.ArrayList;

public class RunImageBatchModerationSolution {
    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
        // 中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
        // 变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");
        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);
        ModerationClient client = ModerationClient.newBuilder()
            .withCredential(auth)
            .withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如北京四：
            cn-north-4。
            .build();
        RunImageBatchModerationRequest request = new RunImageBatchModerationRequest();
        ImageBatchModerationReq body = new ImageBatchModerationReq();
        List<ImageBatchModerationReq.CategoriesEnum> listbodyCategories = new ArrayList<>();
        listbodyCategories.add(ImageBatchModerationReq.CategoriesEnum.fromValue("terrorism"));
        listbodyCategories.add(ImageBatchModerationReq.CategoriesEnum.fromValue("porn"));
        List<String> listbodyUrls = new ArrayList<>();
        listbodyUrls.add("https://XXX.jpg");//此处替换为公网可以访问的图片地址
        body.withThreshold((double) 0);
        body.withCategories(listbodyCategories);
        body.withUrls(listbodyUrls);
        request.withBody(body);
        try {
            RunImageBatchModerationResponse response = client.runImageBatchModeration(request);
            System.out.println(response.getHttpStatusCode());
            System.out.println(JSON.toJSONString(response));
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

2. 控制台输出200即表示程序执行成功，[图像内容审核批量](#)提交的结果输出到控制台。

```
200
{"httpStatusCode":200,"result":[{"categorySuggestions":{"terrorism":"pass","porn":"pass"},"detail":
{"porn":[{"confidence":0.9883,"label":"normal"},{"confidence":0.0039,"label":"porn"},
{"confidence":0.0078,"label":"sexy"}],"terrorism":[{"confidence":2.0E-4,"label":"terrorist"}]}
```

```
{"confidence":2.0E-4,"label":"fascist"},{"confidence":1.0E-4,"label":"cult"},{"confidence":2.0E-4},
{"confidence":1.0E-4,"label":"kidnap"},{"confidence":6.0E-4,"label":"riot"},
{"confidence":1.0E-4,"label":"parade"},{"confidence":2.0E-4,"label":"corpse"},
{"confidence":1.0E-4,"label":"bloody"},{"confidence":1.0E-4,"label":"knife"},
{"confidence":1.0E-4,"label":"gun"},{"confidence":2.0E-4,"label":"military_weapon"},
{"confidence":0.0,"label":"special_characters"},
{"confidence":0.9994,"label":"normal"}], "suggestion":"pass", "url":"https://sdk-obs-source-save.obs.cn-
north-4.myhuaweicloud.com/terrorism.jpg"]}]}
```

## 6.3.2.4 图像内容审核（异步批量）（V2）

### 6.3.2.4.1 提交任务

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用RunTaskSubmitRequest 类的withUrls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
package com.huaweicloud.sdk.test;

import com.alibaba.fastjson.JSON;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.moderation.v2.ModerationClient;
import com.huaweicloud.sdk.moderation.v2.region.ModerationRegion;
import com.huaweicloud.sdk.moderation.v2.model.RunTaskSubmitRequest;
import com.huaweicloud.sdk.moderation.v2.model.TaskSubmitReq;
import com.huaweicloud.sdk.moderation.v2.model.RunTaskSubmitResponse;

import java.util.List;
import java.util.ArrayList;

public class RunTaskSubmitSolution {
    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
        // 中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
        // 变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");
        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);
        ModerationClient client = ModerationClient.newBuilder()
            .withCredential(auth)
            .withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如北京四：
            cn-north-4。
            .build();
        RunTaskSubmitRequest request = new RunTaskSubmitRequest();
        TaskSubmitReq body = new TaskSubmitReq();
        List<TaskSubmitReq.CategoriesEnum> listbodyCategories = new ArrayList<>();
        listbodyCategories.add(TaskSubmitReq.CategoriesEnum.fromValue("porn"));
        listbodyCategories.add(TaskSubmitReq.CategoriesEnum.fromValue("terrorism"));
        List<String> listbodyUrls = new ArrayList<>();
        listbodyUrls.add("https://XXX.jpg"); //此处替换为公网可以访问的图片地址
        body.withCategories(listbodyCategories);
        body.withUrls(listbodyUrls);
        request.withBody(body);
        try {
            RunTaskSubmitResponse response = client.runTaskSubmit(request);
            System.out.println(response.getHttpStatusCode());
            System.out.println(JSON.toJSONString(response));
        }
    }
}
```

```
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
```

2. 控制台输出200即表示程序执行成功，异步批量[任务提交](#)的结果输出到控制台。

```
200
{"httpStatusCode":200,"result":{"jobId":"7f6a5881-7774-40cf-903b-4548914b55a3"}}
```

```
Process finished with exit code 0
```

### 6.3.2.4.2 查询任务

1. 本章节对图像内容审核异步批量-查询任务AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunCheckResultRequest类的withJobId配置审核任务的id，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
package com.huaweicloud.sdk.test;
```

```
import com.alibaba.fastjson.JSON;
```

```
import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.moderation.v2.ModerationClient;
import com.huaweicloud.sdk.moderation.v2.region.ModerationRegion;
import com.huaweicloud.sdk.moderation.v2.model.RunCheckResultRequest;
import com.huaweicloud.sdk.moderation.v2.model.RunCheckResultResponse;
```

```
public class RunCheckResultSolution {
```

```
    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全
```

```
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
```

```
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");
        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);
```

```
        ModerationClient client = ModerationClient.newBuilder()
            .withCredential(auth)
            .withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如北京四：cn-north-4。
            .build();
```

```
        RunCheckResultRequest request = new RunCheckResultRequest();
        request.withJobId("7f6a5881-7774-40cf-903b-4548914b55a3");
        try {
            RunCheckResultResponse response = client.runCheckResult(request);
            System.out.println(response.getHttpStatusCode());
            System.out.println(JSON.toJSONString(response));
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        }
```



```
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
```

2. 控制台输出200即表示程序执行成功，异步批量[查询任务](#)的结果输出到控制台。

```
200
{"httpStatusCode":200,"result":{"createTime":"2021-08-13T03:46:30Z","items":[{"categorySuggestions":
{
"terrorism":"pass","porn":"pass"},"detail":{"porn":[{"confidence":0.9883,"label":"normal"},
{"confidence":0.0039,"label":"porn"},{"confidence":0.0078,"label":"sexy"}],"terrorism":
[{"confidence":2.0E-4,"label":"terrorist"},{"confidence":2.0E-4,"label":"fascist"},
{"confidence":1.0E-4,"label":"cult"},{"confidence":2.0E-4},{"confidence":1.0E-4},
{"confidence":1.0E-4,"label":"kidnap"},{"confidence":6.0E-4,"label":"riot"},
{"confidence":1.0E-4,"label":"parade"},{"confidence":2.0E-4,"label":"corpse"},
{"confidence":1.0E-4,"label":"bloody"},{"confidence":1.0E-4,"label":"knife"},
{"confidence":1.0E-4,"label":"gun"},{"confidence":2.0E-4,"label":"military_weapon"},
{"confidence":0.0,"label":"special_characters"},
{"confidence":0.9994,"label":"normal"}]},"suggestion":"pass","url":"https://sdk-obs-source-save.obs.cn-
north-4.myhuaweicloud.com/
terrorism.jpg"},"jobId":"7f6a5881-7774-40cf-903b-4548914b55a3","status":"finish","updateTime":"202
1-08-13T03:46:30Z"}]}
Process finished with exit code 0
```

## 6.3.3 音频审核

### 6.3.3.1 创建音频内容审核作业

1. 本章节对创建音频审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用RunCreateAudioModerationJobRequest类的withUrls配置待审核的音频url（仅支持url方式），配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.moderation.v3.region.ModerationRegion;
import com.huaweicloud.sdk.moderation.v3.*;
import com.huaweicloud.sdk.moderation.v3.model.*;

import java.util.List;
import java.util.ArrayList;

public class RunCreateAudioModerationJobSolution {

    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
        // 中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
        // 变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");
        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        ModerationClient client = ModerationClient.newBuilder()
```

```
.withCredential(auth)
.withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如北京
四： cn-north-4。
.build();
RunCreateAudioModerationJobRequest request = new RunCreateAudioModerationJobRequest();
AudioCreateRequest body = new AudioCreateRequest();
List<AudioCreateRequest.CategoriesEnum> listbodyCategories = new ArrayList<>();
listbodyCategories.add(AudioCreateRequest.CategoriesEnum.fromValue("porn"));
AudioInputBody databody = new AudioInputBody();
databody.withUrl("https://****.wav");
body.withCategories(listbodyCategories);
body.withEventType(AudioCreateRequest.EventTypeEnum.fromValue("default"));
body.withData(databody);
request.withBody(body);
try {
    RunCreateAudioModerationJobResponse response =
client.runCreateAudioModerationJob(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

- 控制台输出创建音频内容审核作业提交的结果，[创建音频内容审核](#)结果输出到控制台。

```
class RunCreateAudioModerationJobResponse {
    requestId: 0f0d8ed4d85ba28d7461fdb7415a5819
    jobId: 01661702400_cd06d61c16a14565995fcbfb04877bd3
}
```

### 6.3.3.2 查询音频内容审核作业

- 本章节对查询音频审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunQueryAudioModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.moderation.v3.region.ModerationRegion;
import com.huaweicloud.sdk.moderation.v3.*;
import com.huaweicloud.sdk.moderation.v3.model.*;

public class RunQueryAudioModerationJobSolution {

    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
        中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
        变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");
        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);
```

```
ModerationClient client = ModerationClient.newBuilder()
    .withCredential(auth)
    .withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如北京
四：cn-north-4。
    .build();
RunQueryAudioModerationJobRequest request = new RunQueryAudioModerationJobRequest();
request.withJobId("xxx");
try {
    RunQueryAudioModerationJobResponse response =
client.runQueryAudioModerationJob(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

2. 控制台输出查询音频内容审核作业的结果，[查询音频内容审核结果输出到控制台](#)。

```
class RunQueryAudioModerationJobResponse {
    jobId: 01661702400_cd06d61c16a14565995fcbfb04877bd3
    status: running
    result: null
    requestParams: class AudioModerationResultRequestParams {
        eventType: default
        data: class AudioModerationResultRequestParamsData {
            url: https://****.wav
        }
        callback: null
        categories: [porn]
    }
    createTime: 2022-08-29T11:57:14.014Z
    updateTime: 2022-08-29T11:57:14.014Z
    requestId: 57ea754a1fdec2d13e4e8ffbf6a458d
}
```

## 6.3.4 视频审核

### 6.3.4.1 创建视频内容审核作业

1. 本章节对创建视频审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用RunCreateVideoModerationJobRequest类的withUrls配置待审核的视频url（仅支持url方式），配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.moderation.v3.region.ModerationRegion;
import com.huaweicloud.sdk.moderation.v3.*;
import com.huaweicloud.sdk.moderation.v3.model.*;

import java.util.List;
import java.util.ArrayList;
```

```
public class RunCreateVideoModerationJobSolution {

    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
        // 中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
        // 变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        ModerationClient client = ModerationClient.newBuilder()
            .withCredential(auth)
            .withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如北京
            .build();
        RunCreateVideoModerationJobRequest request = new RunCreateVideoModerationJobRequest();
        VideoCreateRequest body = new VideoCreateRequest();
        List<VideoCreateRequest.AudioCategoriesEnum> listbodyAudioCategories = new ArrayList<>();
        listbodyAudioCategories.add(VideoCreateRequest.AudioCategoriesEnum.fromValue("porn"));
        List<VideoCreateRequest.ImageCategoriesEnum> listbodyImageCategories = new ArrayList<>();
        listbodyImageCategories.add(VideoCreateRequest.ImageCategoriesEnum.fromValue("porn"));
        VideoCreateRequestData databody = new VideoCreateRequestData();
        databody.withUrl("http://xxx.xx.xxxx")
            .withFrameInterval(5.5f);
        body.withCallback("http://xxx.xx.xxxx");
        body.withAudioCategories(listbodyAudioCategories);
        body.withImageCategories(listbodyImageCategories);
        body.withEventType(VideoCreateRequest.EventTypeEnum.fromValue("default"));
        body.withData(databody);
        request.withBody(body);
        try {
            RunCreateVideoModerationJobResponse response =
            client.runCreateVideoModerationJob(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

- 控制台输出创建视频内容审核作业提交的结果，[创建视频内容审核](#)结果输出到控制台。

```
class RunCreateVideoModerationJobResponse {
    requestId: 5e353de1badd90049a2ac3d2e3ee925e
    jobId: 01663171200_48ce5a21498e47af8f2a49773c3d0fce
}
```

### 6.3.4.2 查询视频内容审核作业

- 本章节对查询视频审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunQueryVideoModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
package com.huaweicloud.sdk.test;
```

```
import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.moderation.v3.region.ModerationRegion;
import com.huaweicloud.sdk.moderation.v3.*;
import com.huaweicloud.sdk.moderation.v3.model.*;

public class RunQueryVideoModerationJobSolution {

    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
        // 中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
        // 变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        ModerationClient client = ModerationClient.newBuilder()
            .withCredential(auth)
            .withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如北京
            .build();
        RunQueryVideoModerationJobRequest request = new RunQueryVideoModerationJobRequest();
        request.withJobId("jobId");
        try {
            RunQueryVideoModerationJobResponse response =
                client.runQueryVideoModerationJob(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

2. 控制台输出查询视频内容审核作业的结果，[查询视频内容审核结果输出到控制台](#)。

## 6.3.5 音频流审核

### 6.3.5.1 创建音频流内容审核作业

1. 本章节对创建音频流审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用AudioStreamCreateRequestData类的withUrls配置待审核的音频流url，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
```

```
import com.huaweicloud.sdk.core.region.Region;
import com.huaweicloud.sdk.moderation.v3.*;
import com.huaweicloud.sdk.moderation.v3.model.*;

import java.util.List;
import java.util.ArrayList;

public class RunCreateAudioStreamModerationJobSolution {

public static void main(String[] args) {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
    // 中密文存放，使用时解密，确保安全
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
    // 变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
    String ak = System.getenv("HUAWEICLOUD_SDK_AK");
    String sk = System.getenv("HUAWEICLOUD_SDK_SK");

    ICredential auth = new BasicCredentials()
        .withAk(ak)
        .withSk(sk);

    ModerationClient client = ModerationClient.newBuilder()
        .withCredential(auth)
        .withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如北京
        .build();
    RunCreateAudioStreamModerationJobRequest request = new
    RunCreateAudioStreamModerationJobRequest();
    AudioStreamCreateRequest body = new AudioStreamCreateRequest();
    List<String> listbodyCategories = new ArrayList<>();
    listbodyCategories.add("ad");
    AudioStreamCreateRequestData databody = new AudioStreamCreateRequestData();
    databody.withUrl("http://xxx");
    body.withCallback("http://xxxxxxx");
    body.withCategories(listbodyCategories);
    body.withEventType("default");
    body.withData(databody);
    request.withBody(body);
    try {
        RunCreateAudioStreamModerationJobResponse response =
        client.runCreateAudioStreamModerationJob(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
```

- 控制台输出创建音频流内容审核作业提交的结果。

```
class RunCreateAudioStreamModerationJobResponse {
    requestId: c40f626ee8d85cad5bc80dc00c42a4c6
    jobId: 11690387200_c40f626ee8d85cad5bc80dc00c42a4c6
}
```

### 6.3.5.2 关闭音频流内容审核作业

- 本章节对关闭音频流审核AK/SK方式使用SDK进行示例说明。  
示例代码中需要配置使用RunCloseAudioStreamModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。  
服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.core.region.Region;
import com.huaweicloud.sdk.moderation.v3.*;
import com.huaweicloud.sdk.moderation.v3.model.*;

public class RunCloseAudioStreamModerationJobSolution {

    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
        // 中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
        // 变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        ModerationClient client = ModerationClient.newBuilder()
            .withCredential(auth)
            .withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如北京
            .build();
        RunCloseAudioStreamModerationJobRequest request = new
        RunCloseAudioStreamModerationJobRequest();
        request.withJobId("xxxxxx");
        try {
            RunCloseAudioStreamModerationJobResponse response =
            client.runCloseAudioStreamModerationJob(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}

2. 控制台输出关闭音频流内容审核作业的结果。
class RunCloseAudioStreamModerationJobResponse {
    result: success
}
```

## 6.3.6 视频流审核

### 6.3.6.1 创建视频流内容审核作业

1. 本章节对创建视频流审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用VideoStreamCreateRequestData类的withUrls配置待审核的视频流url（仅支持url方式），配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
package com.huaweicloud.sdk.test;
```

```
import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.core.region.Region;
import com.huaweicloud.sdk.moderation.v3.*;
import com.huaweicloud.sdk.moderation.v3.model.*;

import java.util.List;
import java.util.ArrayList;

public class RunCreateVideoStreamModerationJobSolution {

    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
        // 中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
        // 变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");
        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        ModerationClient client = ModerationClient.newBuilder()
            .withCredential(auth)
            .withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如北京
            .build();
        RunCreateVideoStreamModerationJobRequest request = new
        RunCreateVideoStreamModerationJobRequest();
        VideoStreamCreateRequest body = new VideoStreamCreateRequest();
        List<VideoStreamCreateRequest.ImageCategoriesEnum> listbodyImageCategories = new
        ArrayList<>();

        listbodyImageCategories.add(VideoStreamCreateRequest.ImageCategoriesEnum.fromValue("politics"));
        VideoStreamCreateRequestData databody = new VideoStreamCreateRequestData();
        databody.withUrl("http://xxx");
        body.withCallback("http://xxxxxx");
        body.withImageCategories(listbodyImageCategories);
        body.withEventType(VideoStreamCreateRequest.EventTypeEnum.fromValue("default"));
        body.withData(databody);
        request.withBody(body);
        try {
            RunCreateVideoStreamModerationJobResponse response =
            client.runCreateVideoStreamModerationJob(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## 2. 控制台输出创建视频流内容审核作业提交的结果。

```
class RunCreateVideoStreamModerationJobResponse {
    requestId: 5b1dfe438c6bed5af1147fd2ebd0b958
    jobId: 01690387200_5b1dfe438c6bed5af1147fd2ebd0b958
}
```



### 6.3.6.2 关闭视频流内容审核作业

1. 本章节对关闭视频流审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunCloseVideoStreamModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.core.region.Region;
import com.huaweicloud.sdk.moderation.v3.*;
import com.huaweicloud.sdk.moderation.v3.model.*;

public class RunCloseVideoStreamModerationJobSolution {

    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
        // 中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
        // 变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");
        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        ModerationClient client = ModerationClient.newBuilder()
            .withCredential(auth)
            .withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如北京
            .build();
        RunCloseVideoStreamModerationJobRequest request = new
        RunCloseVideoStreamModerationJobRequest();
        request.withJobId("xxxxx");
        try {
            RunCloseVideoStreamModerationJobResponse response =
            client.runCloseVideoStreamModerationJob(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

2. 控制台输出关闭视频流内容审核作业的结果。

```
class RunCloseVideoStreamModerationJobResponse {
    result: success
}
```

### 6.3.7 文档审核

### 6.3.7.1 创建文档内容审核作业

1. 本章节对创建文档内容审核作业AK/SK方式使用SDK进行示例说明。

示例代码中可以使用DocumentCreateRequestData类的withUrl配置待审核的文档url，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.core.region.Region;
import com.huaweicloud.sdk.moderation.v3.*;
import com.huaweicloud.sdk.moderation.v3.model.*;

public class RunCreateDocumentModerationJobSolution {

    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
        // 中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
        // 变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        ModerationClient client = ModerationClient.newBuilder()
            .withCredential(auth)
            .withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如北京
            // 四： cn-north-4。
            .build();
        RunCreateDocumentModerationJobRequest request = new
        RunCreateDocumentModerationJobRequest();
        DocumentCreateRequest body = new DocumentCreateRequest();
        DocumentCreateRequestData databody = new DocumentCreateRequestData();
        databody.withUrl("http://xxx")
            .withFormat("pdf");
        body.withEventType("default");
        body.withData(databody);
        request.withBody(body);
        try {
            RunCreateDocumentModerationJobResponse response =
            client.runCreateDocumentModerationJob(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

2. 控制台输出创建文档内容审核作业提交的结果。

```
class RunCreateDocumentModerationJobResponse {
    requestId: 86ad03c26917901d22e06d2f28ba2c7a
    jobId: 01690387200_1434ba6e1de44666877e748133b1d2e9
}
```

### 6.3.7.2 查询文档审核作业结果

1. 本章节对查询文档审核作业结果AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunQueryDocumentModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.core.region.Region;
import com.huaweicloud.sdk.moderation.v3.*;
import com.huaweicloud.sdk.moderation.v3.model.*;

public class RunQueryDocumentModerationJobSolution {

    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
        // 中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
        // 变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");
        String iamEndpoint = "https://iam.cn-north-7.myhuaweicloud.com";
        String endpoint = "https://moderation.cn-north-7.myhuaweicloud.com";

        ICredential auth = new BasicCredentials()
            .withIamEndpoint(iamEndpoint)
            .withAk(ak)
            .withSk(sk);

        ModerationClient client = ModerationClient.newBuilder()
            .withCredential(auth)
            .withRegion(new Region("cn-north-7", endpoint))
            .build();
        RunQueryDocumentModerationJobRequest request = new
        RunQueryDocumentModerationJobRequest();
        request.withJobId("xxx");
        try {
            RunQueryDocumentModerationJobResponse response =
            client.runQueryDocumentModerationJob(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

2. 控制台输出查询文档审核作业结果。

```
class RunQueryDocumentModerationJobResponse {
  jobId: 01693238400_90b2f15d730f43958a74b93619f3ab78
  status: succeeded
  result: class DocumentQueryResponseResult {
    suggestion: pass
    details: []
  }
  requestParams: class DocumentQueryResponseRequestParams {
```

```
data: class DocumentQueryResponseRequestParamsData {  
    url: http://www.baidu.com  
    format: pdf  
    frameInterval: null  
}  
eventType: default  
imageCategories: null  
textCategories: null  
videoImageCategories: null  
audioCategories: null  
callback: null  
}  
createTime: 2023-08-29T15:08:12.012Z  
updateTime: 2023-08-29T15:08:13.013Z  
requestId: 33ca3825b6525bdc8cd7ee2502028692  
}
```

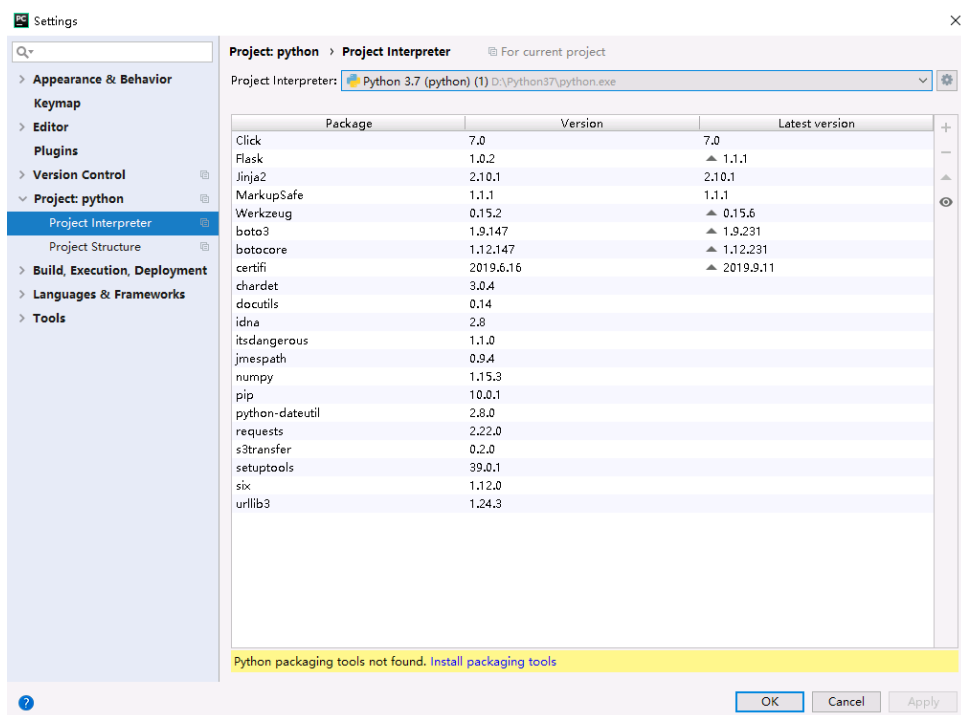
# 7 使用 SDK ( Python )

## 7.1 Python 开发环境配置

使用内容审核Python版本SDK包，需要您配置Python开发环境。

1. 从[Python官网](#)下载并安装合适的Python版本。请使用Python3.3以上版本，如下以Python3.7 版本为例进行说明。
2. 从[PyCharm官网](#)下载并安装最新版本。
3. 在PyCharm开发工具中配置Python环境，在菜单依次选择“File > Settings > Project Interpreter”。
4. 在页面上方选择您的Python安装路径，如图 [PyCharm配置python环境所示](#)。选择好目标Python之后单击页面下方“Apply”完成配置。

图 7-1 PyCharm 配置 python 环境



## 7.2 Python 语言 SDK 获取和安装

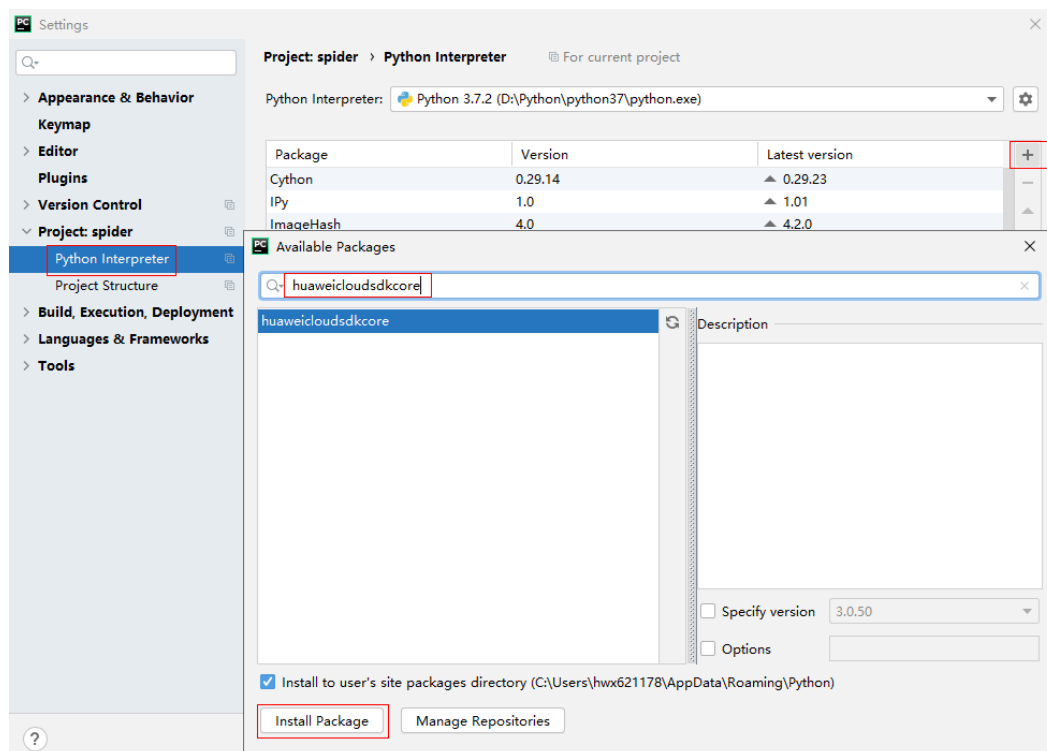
python语言SDK的获取和安装推荐使用pip命令进行安装或使用pycharm进行安装，需要安装huaweicloudsdkcore包以及huaweicloudsdkmoderation，参考方法如下：

```
pip 安装：  
# 安装核心库  
pip install huaweicloudsdkcore  
  
# 安装Moderation服务库  
pip install huaweicloudsdkmoderation
```

使用pycharm安装，步骤如下：

1. 打开pycharm，单击File -> Settings...
2. 单击Python Interpreter -> 单击+。
3. 单击+，分别搜索huaweicloudsdkcore及hwa如下图所示：安装内容审核.NEweicloudsdkmoderation，搜索到包内容单击左下角Install Package完成安装。

图 7-2 pycharm 安装内容审核 python 版本 sdk 包



## 7.3 SDK 调用示例

### 7.3.1 文本审核

### 7.3.1.1 文本内容审核 ( v3 )

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

示例代码中修改TextDetectionDataReq的text值配置待检测的文本信息，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkmoderation.v3.region.moderation_region import ModerationRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v3 import *
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    # 密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    # HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk) \

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \ //把xxx替换成服务所在的区域，例如北京四：
        cn-north-4。
        .build()

    try:
        request = RunTextModerationRequest()
        databody = TextDetectionDataReq(
            text="test"
        )
        request.body = TextDetectionReq(
            data=databody,
            event_type="comment"
        )
        response = client.run_text_moderation(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

2. 控制台输出200即表示程序执行成功，[文本内容审核结果](#)输出到控制台。

```
{"request_id": "d81702cfd3599e103030c3d52d6f955f", "result": {"suggestion": "pass", "label": "normal", "details": []}}
```

### 7.3.1.2 文本内容审核 ( v2 )

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

示例代码中修改TextDetectionItemsReq的text值配置待检测的文本信息，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v2.region.moderation_region import ModerationRegion
from huaweicloudsdkmoderation.v2 import *
ModerationClient,RunTextModerationRequest,TextDetectionItemsReq,TextDetectionReq
import os
```

```
if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    # 密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    # HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk)

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \ //把xxx替换成服务所在的区域，例如北京四：
        cn-north-4。
        .build()

    try:
        request = RunTextModerationRequest()
        listTextDetectionItemsReqItemsbody = [
            TextDetectionItemsReq(
                text="text", //此处输入待检测文本
                type="content"
            )
        ]
        listTextDetectionReqCategoriesbody = [
            "porn",
            "ad",
            "abuse",
            "contraband",
            "flood"
        ]
        request.body = TextDetectionReq(
            items=listTextDetectionItemsReqItemsbody,
            categories=listTextDetectionReqCategoriesbody
        )
        response = client.run_text_moderation(request)
        print(response.status_code)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

2. 控制台输出200即表示程序执行成功，[文本内容审核结果](#)输出到控制台。

```
200
{"result": {"suggestion": "block", "detail": {"contraband": ["亚砷酸钾"], "porn": ["luo聊"]}}}
```

## 7.3.2 图像审核

### 7.3.2.1 图像内容审核 ( V3 )

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以修改ImageDetectionReq的url或image方法配置图像信息（image和url参数二选一），示例中以url为例配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
# coding: utf-8
```

```
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkmoderation.v3.region.moderation_region import ModerationRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v3 import *
```



```
if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    # 密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    # HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")
    projectId = "project_id"

    credentials = BasicCredentials(ak, sk, projectId) \

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \ //把xxx替换成服务所在的区域，例如北京四：
        cn-north-4。
        .build()

    try:
        request = CheckImageModerationRequest()
        listCategoriesbody = [
            "porn"
        ]
        request.body = ImageDetectionReq(
            url="http://www.xxxx.xxx",
            categories=listCategoriesbody,
            event_type="head_image"
        )
        response = client.check_image_moderation(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

2. 控制台输出200即表示程序执行成功，[图像内容审核结果输出到控制台](#)。

```
{"request_id": "69b424920668cb15e6d25eef879a023b", "result": {"suggestion": "block", "category": "image_text", "details": [{"suggestion": "block", "category": "image_text", "confidence": 1.0, "qr_location": {"top_left_x": 74, "top_left_y": 66, "bottom_right_x": 151, "bottom_right_y": 142}, "qr_content": "http://xxxxx/xxxxx", "label": "qr_code"}, {"suggestion": "block", "category": "image_text", "confidence": 0.98779297, "label": "ad"}, {"suggestion": "block", "category": "image_text", "confidence": 1.0, "label": "qr_code"}], "ocr_text": "xxxxxxxxx"}}
```

### 7.3.2.2 图像内容审核 ( V2 )

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以修改ImageDetectionReq的url或image方法配置图像信息（image和url参数二选一），示例中以url为例配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#) 。

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v2.region.moderation_region import ModerationRegion
from huaweicloudsdkmoderation.v2 import ModerationClient, RunImageModerationRequest, ImageDetectionReq
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    # 密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    # HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")
    credentials = BasicCredentials(ak, sk)
```

```
client = ModerationClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(ModerationRegion.value_of("xxx")) \ //把xxx替换成服务所在的区域，例如北京四：
cn-north-4。
    .build()

try:
    request = RunImageModerationRequest()
    listImageDetectionReqCategoriesbody = [
        "terrorism",
        "porn",
        "ad"
    ]
    request.body = ImageDetectionReq(
        threshold=0,
        categories=listImageDetectionReqCategoriesbody,
        moderation_rule="default",
        url="https://XXX.jpg" //此处替换为公网可以访问的图片地址
    )
    response = client.run_image_moderation(request)
    print(response.status_code)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

2. 控制台输出200即表示程序执行成功，[图像内容审核结果](#)输出到控制台。

```
200
{"result": {"detail": { "porn": [{"confidence": 0.9883, "label": "normal"}, {"confidence": 0.0039, "label":
"porn"}, {"confidence": 0.0078, "label": "sexy"}], "terrorism": [{"confidence": 0.0002, "label":
"terrorist"}, {"confidence": 0.0002, "label": "fascist"}, {"confidence": 0.0001, "label": "cult"},
{"confidence": 0.0002}, {"confidence": 0.0001, "label": "kidnap"}, {"confidence": 0.0006, "label": "riot"},
{"confidence": 0.0001, "label": "parade"}, {"confidence": 0.0002, "label": "corpse"}, {"confidence":
0.0001, "label": "bloody"}, {"confidence": 0.0001, "label": "knife"}, {"confidence": 0.0001, "label":
"gun"}, {"confidence": 0.0002, "label": "military_weapon"}, {"confidence": 0.0, "label":
"special_characters"}, {"confidence": 0.9994, "label": "normal"}], "ad": [{"confidence": 0.0, "label":
"ad"}, {"confidence": 1.0, "label": "normal"}]}, "suggestion": "pass", "category_suggestions": { "ad":
"pass", "terrorism": "pass", "porn": "pass"}}
Process finished with exit code 0
```

### 7.3.2.3 图像内容审核（批量）（V2）

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以修改ImageBatchModerationReq的urls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v2.region.moderation_region import ModerationRegion
from huaweicloudsdkmoderation.v2 import
ModerationClient,RunImageBatchModerationRequest,ImageBatchModerationReq
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
    量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk)
```

```
client = ModerationClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(ModerationRegion.value_of("xxx")) \ //把xxx替换成服务所在的区域，例如北京四：
cn-north-4。
    .build()

try:
    request = RunImageBatchModerationRequest()
    listImageBatchModerationReqCategoriesbody = [
        "terrorism",
        "porn",
        "ad"
    ]
    listImageBatchModerationReqUrlsbody = [
        "https://XXX.jpg" //此处替换为公网可以访问的图片地址
    ]
    request.body = ImageBatchModerationReq(
        threshold=0,
        categories=listImageBatchModerationReqCategoriesbody,
        urls=listImageBatchModerationReqUrlsbody
    )
    response = client.run_image_batch_moderation(request)
    print(response.status_code)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

2. 控制台输出200即表示程序执行成功，[图像内容审核批量任务](#)提交的结果输出到控制台。

```
200
{'result': [{'category_suggestions': {'ad': 'pass',
                                     'porn': 'pass',
                                     'terrorism': 'pass'},
            'detail': {
                'ad': [{'confidence': 0.0, 'label': 'ad'},
                       {'confidence': 1.0, 'label': 'normal'}],
                'porn': [{'confidence': 0.9883, 'label': 'normal'},
                          {'confidence': 0.0039, 'label': 'porn'},
                          {'confidence': 0.0078, 'label': 'sexy'}],
                'terrorism': [{'confidence': 0.0002,
                               'label': 'terrorist'},
                              {'confidence': 0.0002,
                               'label': 'fascist'},
                              {'confidence': 0.0001, 'label': 'cult'},
                              {'confidence': 0.0001, 'label': 'kidnap'},
                              {'confidence': 0.0006, 'label': 'riot'},
                              {'confidence': 0.0001, 'label': 'parade'},
                              {'confidence': 0.0002, 'label': 'corpse'},
                              {'confidence': 0.0001, 'label': 'bloody'},
                              {'confidence': 0.0001, 'label': 'knife'},
                              {'confidence': 0.0001, 'label': 'gun'},
                              {'confidence': 0.0002,
                               'label': 'military_weapon'},
                              {'confidence': 0.0,
                               'label': 'special_characters'},
                              {'confidence': 0.9994,
                               'label': 'normal'}]},
            'suggestion': 'pass',
            'url': 'https://sdk-obs-source-save.obs.cn-north-4.myhuaweicloud.com/terrorism.jpg']}]
Process finished with exit code 0
```

### 7.3.2.4 图像内容审核（异步批量）（V2）

### 7.3.2.4.1 提交任务

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以修改TaskSubmitReq的urls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v2.region.moderation_region import ModerationRegion
from huaweicloudsdkmoderation.v2 import *
from huaweicloudsdkmoderation.v2 import ModerationClient,RunTaskSubmitRequest,TaskSubmitReq
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    # 密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    # HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")
    credentials = BasicCredentials(ak, sk)

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \ //把xxx替换成服务所在的区域，例如北京四：
        cn-north-4。
        .build()

    try:
        request = RunTaskSubmitRequest()
        listTaskSubmitReqCategoriesbody = [
            "porn",
            "terrorism"
        ]
        listTaskSubmitReqUrlsbody = [
            "https://XXX.jpg" //此处替换为公网可以访问的图片地址
        ]
        request.body = TaskSubmitReq(
            categories=listTaskSubmitReqCategoriesbody,
            urls=listTaskSubmitReqUrlsbody
        )
        response = client.run_task_submit(request)
        print(response.status_code)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

2. 控制台输出200即表示程序执行成功，异步批量[任务提交](#)的结果输出到控制台。

```
200
{'result': {'job_id': 'xxx'}}

Process finished with exit code 0
```

### 7.3.2.4.2 查询任务

1. 本章节对图像内容审核异步批量-查询任务AK/SK方式使用SDK进行示例说明。

示例代码中修改RunCheckResultRequest的job\_id 配置审核任务的id，配置完成后运行即可。服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
# coding: utf-8
```

```
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v2.region.moderation_region import ModerationRegion
from huaweicloudsdkmoderation.v2 import *
from huaweicloudsdkmoderation.v2 import ModerationClient,RunCheckResultRequest
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    # 密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    # HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")
    credentials = BasicCredentials(ak, sk)

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \ //把xxx替换成服务所在的区域，例如北京四：
        cn-north-4。
        .build()

    try:
        request = RunCheckResultRequest()
        request.job_id = "xxx" //此处需要输入您的jobID
        response = client.run_check_result(request)
        print(response.status_code)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

2. 控制台输出200即表示程序执行成功，异步批量[查询任务](#)的结果输出到控制台。

```
200
{'result': {'create_time': '2021-08-04T08:30:41Z',
            'items': [{'category_suggestions': {
                        'porn': 'pass',
                        'terrorism': 'pass'},
                      'detail': {'ad': None,
                                  'porn': [{'confidence': 0.9883,
                                             'label': 'normal'},
                                           {'confidence': 0.0039,
                                             'label': 'porn'},
                                           {'confidence': 0.0078,
                                             'label': 'sexy'}],
                                  'terrorism': [{'confidence': 0.0002,
                                                  'label': 'terrorist'},
                                                {'confidence': 0.0002,
                                                  'label': 'fascist'},
                                                {'confidence': 0.0001,
                                                  'label': 'cult'},
                                                {'confidence': 0.0001,
                                                  'label': 'kidnap'},
                                                {'confidence': 0.0006,
                                                  'label': 'riot'},
                                                {'confidence': 0.0001,
                                                  'label': 'parade'},
                                                {'confidence': 0.0002,
                                                  'label': 'corpse'},
                                                {'confidence': 0.0001,
                                                  'label': 'bloody'},
                                                {'confidence': 0.0001,
                                                  'label': 'knife'},
                                                {'confidence': 0.0001,
                                                  'label': 'gun'},
                                                {'confidence': 0.0002,
                                                  'label': 'military_weapon'}]
                                }
                    ]}}
```

```
        {'confidence': 0.0,  
         'label': 'special_characters'},  
        {'confidence': 0.9994,  
         'label': 'normal'}]],  
    'suggestion': 'pass',  
    'url': 'https://sdk-obs-source-save.obs.cn-north-4.myhuaweicloud.com/terrorism.jpg']],  
    'job_id': 'xxx',  
    'status': 'finish',  
    'update_time': '2021-08-04T08:30:41Z'}}
```

Process finished with exit code 0

## 7.3.3 音频审核

### 7.3.3.1 创建音频内容审核作业

1. 本章节对创建音频审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用RunCreateAudioModerationJobRequest类的withUrls配置待审核的音频url（仅支持url方式），配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
# coding: utf-8  
  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkmoderation.v3.region.moderation_region import ModerationRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkmoderation.v3 import *  
import os  
  
if __name__ == "__main__":  
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量  
    # 中密文存放，使用时解密，确保安全；  
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变  
    # 量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。  
  
    ak = __import__('os').getenv("CLOUD_SDK_AK")  
    sk = __import__('os').getenv("CLOUD_SDK_SK")  
  
    credentials = BasicCredentials(ak, sk) \  
  
    client = ModerationClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(ModerationRegion.value_of("xxx")) \  
        //把xxx替换成服务所在的区域，例如北京四：cn-north-4。  
        .build()  
  
    try:  
        request = RunCreateAudioModerationJobRequest()  
        listCategoriesbody = [  
            "ad"  
        ]  
        databody = AudioInputBody(  
            url="http://xxx.wav"  
        )  
        request.body = AudioCreateRequest(  
            categories=listCategoriesbody,  
            event_type="default",  
            data=databody  
        )  
        response = client.run_create_audio_moderation_job(request)  
        print(response)  
  
    except exceptions.ClientRequestException as e:  
        print(e.status_code)  
        print(e.request_id)
```

```
print(e.error_code)
print(e.error_msg)
```

2. 控制台输出创建音频内容审核作业的结果，[创建音频内容审核](#)结果输出到控制台。  

```
{"request_id": "0b111ce94ec3dXXX4e51a096d996", "job_id": "xxx"}
```

### 7.3.3.2 查询音频内容审核作业

1. 本章节对查询音频审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunQueryAudioModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkmoderation.v3.region.moderation_region import ModerationRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v3 import *
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    # 密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    # HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")
    credentials = BasicCredentials(ak, sk) \

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \  //把xxx替换成服务所在的区域，例如北京四：
        cn-north-4。
        .build()

    try:
        request = RunQueryAudioModerationJobRequest()
        request.job_id = "xxx" //此处需要输入您的jobID
        response = client.run_query_audio_moderation_job(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

2. 控制台输出查询音频内容审核作业提交的结果，[查询音频内容审核](#)结果输出到控制台。

```
{"job_id": "xxxx", "status": "succeeded", "result": {"suggestion": "block", "details":
[{"start_time": 0, "suggestion": "block", "end_time": 10, "label": "porn", "audio_text": "xxxx", "segments":
[{"segment": "xxx"}, {"segment": "xxx"}, {"segment": "xxx"}]},
{"start_time": 30, "suggestion": "block", "end_time": 40, "label": "porn", "audio_text": "xxx", "segments":
[{"segment": "xx"}]}, "audio_text": "xxxxxx"}, "request_params": {"event_type": "default", "data":
{"url": "https://xxxx.wav", "callback": "http://xxx", "categories": ["porn", "ad"]}, "create_time": "2022-06-20
11:05:29", "update_time": "2022-06-20 11:07:08", "request_id": "2419446b1fe14203f64e4018d12db3dd"}
```

## 7.3.4 视频审核

### 7.3.4.1 创建视频内容审核作业

1. 本章节对创建视频审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用RunCreateVideoModerationJobRequest类的withUrls配置待审核的视频url（仅支持url方式），配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkmoderation.v3.region.moderation_region import ModerationRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v3 import *
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    # 密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    # HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")
    credentials = BasicCredentials(ak, sk) \

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \  //把xxx替换成服务所在的区域，例如北京四：
        cn-north-4.
        .build()

    try:
        request = RunCreateVideoModerationJobRequest()
        listAudioCategoriesbody = [
            "porn"
        ]
        listImageCategoriesbody = [
            "porn"
        ]
        databody = VideoCreateRequestData(
            url="http://xxx.xx.xxxx",
            frame_interval=5.5
        )
        request.body = VideoCreateRequest(
            callback="http://xxx.xx.xxxx",
            audio_categories=listAudioCategoriesbody,
            image_categories=listImageCategoriesbody,
            event_type="default",
            data=databody
        )
        response = client.run_create_video_moderation_job(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

- 控制台输出创建视频内容审核作业的结果，[创建视频内容审核](#)结果输出到控制台。

```
{"request_id": "dbbcb75d1a174bfa899a38be38fdd107", "job_id": "xxx"}
```

### 7.3.4.2 查询视频内容审核作业

- 本章节对查询视频审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunQueryVideoModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
# coding: utf-8
```



```
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkmoderation.v3.region.moderation_region import ModerationRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v3 import *
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    # 密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    # HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")
    credentials = BasicCredentials(ak, sk)

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \ //把xxx替换成服务所在的区域，例如北京四：
        cn-north-4。
        .build()

    try:
        request = RunQueryVideoModerationJobRequest()
        request.job_id = "xxx" //此处需要输入您的jobID
        response = client.run_query_video_moderation_job(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

2. 控制台输出查询视频内容审核作业的结果，[查询视频内容审核结果输出到控制台](#)。

```
{"request_id": "xxxx", "job_id": "xxx", "status": "succeeded", "request_params": {"data":
{"url": "xxxx", "frame_interval": 5, "event_type": "default", "image_categories":
["porn", "terrorism", "image_text"], "audio_categories":
["porn", "ad", "moan", "abuse"], "callback": "xxx", "create_time": "2022-07-30T08:57:11.011Z", "update_time":
"2022-07-30T08:57:14.014Z", "result": {"suggestion": "block", "image_detail":
[{"suggestion": "block", "category": "porn", "ocr_text": "123", "time": 0, "detail":
[{"confidence": 0.676015138626099, "category": "porn", "suggestion": "block", "label": "pornography"},
{"confidence": 0.666015138626099, "category": "porn", "suggestion": "review", "label": "sexy_female"},
{"confidence": 0.666015138626099, "category": "xxx", "suggestion": "block", "label": "leader"},
{"confidence": 0.691423773765564, "category": "xxx", "suggestion": "block", "face_location":
{"top_left_x": 12, "top_left_y": 13, "bottom_right_x": 200, "bottom_right_y": 240, "label": "leader"},
{"confidence": 0.691423773765564, "category": "porn", "suggestion": "block", "face_location":
{"top_left_x": 12, "top_left_y": 13, "bottom_right_x": 100, "bottom_right_y": 2000, "label": "leader"},
{"confidence": 0.891423773765564, "category": "image_text", "suggestion": "block", "label": "qr_code"},
{"confidence": 0.891423773765564, "category": "image_text", "suggestion": "block", "label": "qr_code", "qr_content":
"xxxxxxxxxx", "qr_location":
{"top_left_x": 12, "top_left_y": 13, "bottom_right_x": 100, "bottom_right_y": 2000}],
{"confidence": 0.891423773765564, "category": "image_text", "suggestion": "block", "label": "porn", "segments":
[{"segment": "xxx"}, {"segment": "xx"}]}]}], "audio_detail":
[{"suggestion": "block", "label": "porn", "audio_text": "xxxxx", "end_time": 10, "start_time": 0, "detail":
[{"confidence": 0.999117187582349, "label": "porn", "suggestion": "block", "segments":
[{"segment": "xxx"}]}, {"confidence": 0.885117187582349, "label": "porn", "suggestion": "block"}]}}]}
```

## 7.3.5 音频流审核

### 7.3.5.1 创建音频流内容审核作业

1. 本章节对创建音频流审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用AudioStreamCreateRequestData类的withUrls配置待审核的音频流url（仅支持url方式），配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkmoderation.v3.region.moderation_region import ModerationRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v3 import *
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    # 密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    # HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")
    credentials = BasicCredentials(ak, sk)

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \ //把xxx替换成服务所在的区域，例如北京四：
        cn-north-4。
        .build()

    try:
        request = RunCreateAudioStreamModerationJobRequest()
        listCategoriesbody = [
            "ad"
        ]
        databody = AudioStreamCreateRequestData(
            url="http://xxx"
        )
        request.body = AudioStreamCreateRequest(
            param_callback="http://xxxxxx",
            categories=listCategoriesbody,
            event_type="default",
            data=databody
        )
        response = client.run_create_audio_stream_moderation_job(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

2. 控制台输出创建音频流内容审核作业的结果。

```
{
  "request_id": "303fbd70c9813a2476bad125fa436f00",
  "job_id": "11690387200_ffa1f5bb9a58451b86816gdfc654610e"
}
```

### 7.3.5.2 关闭音频流内容审核作业

1. 本章节对关闭音频流审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunCloseAudioStreamModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkmoderation.v3.region.moderation_region import ModerationRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v3 import *
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
```

```
密文存放，使用时解密，确保安全；
# 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
ak = os.getenv("HUAWEICLOUD_SDK_AK")
sk = os.getenv("HUAWEICLOUD_SDK_SK")
credentials = BasicCredentials(ak, sk)

client = ModerationClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(ModerationRegion.value_of("xxx"))\ //把xxx替换成服务所在的区域，例如北京四：cn-north-4。
    .build()

try:
    request = RunCloseAudioStreamModerationJobRequest()
    request.job_id = "xxxxx"
    response = client.run_close_audio_stream_moderation_job(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

2. 控制台输出关闭音频流内容审核作业提交的结果。

```
{
  "result": "success"
}
```

## 7.3.6 视频流审核

### 7.3.6.1 创建视频流内容审核作业

1. 本章节对创建视频流审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用VideoStreamCreateRequestData类的withUrls配置待审核的视频流url（仅支持url方式），配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkmoderation.v3.region.moderation_region import ModerationRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v3 import *
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk)

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx"))\ //把xxx替换成服务所在的区域，例如北京四：cn-north-4。
        .build()

    try:
        request = RunCreateVideoStreamModerationJobRequest()
        listImageCategoriesbody = [
            "politics"
```

```
]
databody = VideoStreamCreateRequestData(
    url="http://xxx"
)
request.body = VideoStreamCreateRequest(
    param_callback="http://xxxxxx",
    image_categories=listImageCategoriesbody,
    event_type="default",
    data=databody
)
response = client.run_create_video_stream_moderation_job(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

2. 控制台输出创建视频流内容审核作业的结果。

```
{
  "request_id": "fa520dddb6b54af51c8d1e6d19898656",
  "job_id": "01690387200_09ad14f155bb47e9bf2718ace57c73ed"
}
```

### 7.3.6.2 关闭视频流内容审核作业

1. 本章节对关闭视频流审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunCloseVideoStreamModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
# coding: utf-8
```

```
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkmoderation.v3.region.moderation_region import ModerationRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v3 import *
import os
```

```
if __name__ == "__main__":
```

```
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中  
    密文存放，使用时解密，确保安全；
```

```
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变  
    量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
```

```
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")
```

```
    credentials = BasicCredentials(ak, sk)
```

```
    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \ //把xxx替换成服务所在的区域，例如北京四：  
cn-north-4。
        .build()
```

```
    try:
        request = RunCloseVideoStreamModerationJobRequest()
        request.job_id = "xxxxx"
        response = client.run_close_video_stream_moderation_job(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

2. 控制台输出关闭视频流内容审核作业提交的结果。

```
{
  "result": "success"
}
```

## 7.3.7 文档审核

### 7.3.7.1 创建文档内容审核作业

1. 本章节对创建文档内容审核作业AK/SK方式使用SDK进行示例说明。

示例代码中可以使用DocumentCreateRequestData类的withUrl配置待审核的文档url，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkmoderation.v3.region.moderation_region import ModerationRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v3 import *
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    # 密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    # HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")
    credentials = BasicCredentials(ak, sk)

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \ //把xxx替换成服务所在的区域，例如北京四：
        cn-north-4。
        .build()

    try:
        request = RunCreateDocumentModerationJobRequest()
        databody = DocumentCreateRequestData(
            url="http://xxx",
            format="pdf"
        )
        request.body = DocumentCreateRequest(
            event_type="default",
            data=databody
        )
        response = client.run_create_document_moderation_job(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

2. 控制台输出创建文档内容审核作业的结果。

```
{"request_id": "c083957284ce1f2c0b910115d8232ec6", "job_id": "01690387200_e3dfb78d9f20463f98aee25e6895203a"}
```

### 7.3.7.2 查询文档审核作业结果

1. 本章节对查询文档审核作业结果AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunQueryDocumentModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
```

```
from huaweicloudsdkmoderation.v3.region.moderation_region import ModerationRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v3 import *
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    # 密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    # HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")
    credentials = BasicCredentials(ak, sk)

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \  //把xxx替换成服务所在的区域，例如北京四：
        cn-north-4.
    .build()

    try:
        request = RunQueryDocumentModerationJobRequest()
        request.job_id = "xxxx"
        response = client.run_query_document_moderation_job(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## 2. 控制台输出查询文档审核作业结果。

```
{"job_id": "01693238400_cd7c8fd0a30b4c13b1fc9246c542c6", "status": "succeeded", "result":
{"suggestion": "pass", "details": []}, "request_params": {"data": {"url": "http://xxxxx", "format": "pdf"},
"event_type": "default", "create_time": "2023-08-29T16:33:50.050Z", "update_time":
"2023-08-29T16:33:50.050Z", "request_id": "e4eeb972aeb92f4269e8dfbb59ba7e3b"}
```

# 8 使用 SDK (.NET)

## 8.1 .NET 开发环境配置

使用内容审核.NET版本SDK包，需要先配置.Net开发环境。

1. [Visual Studio官网](#)，下载最新版Visual Studio。
2. 下载完毕后，单击exe文件，开始安装。
3. 安装过程中选择工作负荷ASP.NET和Web开发，安装完成后启动即可。

图 8-1 选择安装.NET 环境依赖



## 8.2 .NET 环境 SDK 导入

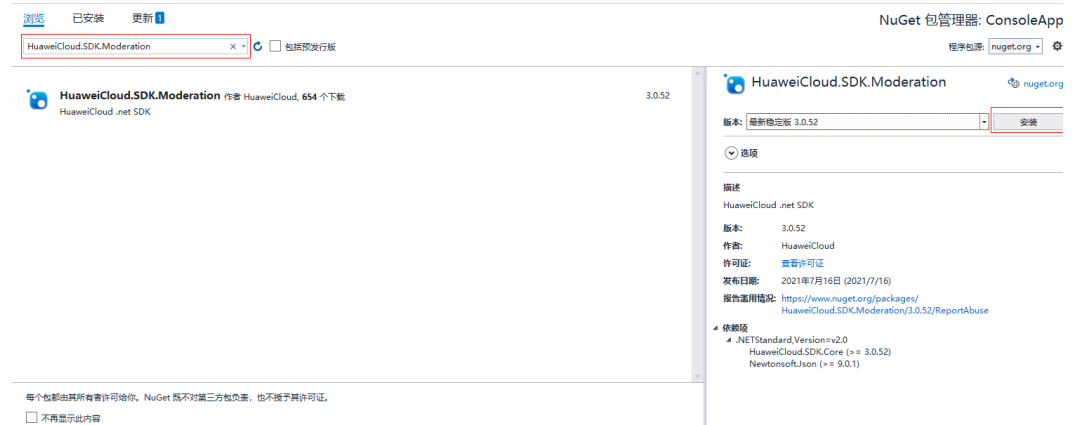
.NET语言SDK的获取和安装可以使用可以通过命令方式安装或使用Visual Studio开发工具安装第三方引用，参考方法如下：

```
//使用 .NET CLI 工具
dotnet add package HuaweiCloud.SDK.Core
dotnet add package HuaweiCloud.SDK.Moderation

//使用 Package Manager
Install-Package HuaweiCloud.SDK.Core
dotnet add package HuaweiCloud.SDK.Moderation
```

使用Visual Studio开发工具安装第三方引用：单击“工具->NuGet包管理器->管理解决方案的NuGet程序包”，选择浏览中搜索并安装HuaweiCloud.SDK.Core及HuaweiCloud.SDK.Moderation,如下图所示：

图 8-2 安装内容审核.NET 版本 sdk 包



## 8.3 SDK 调用示例

### 8.3.1 文本审核

#### 8.3.1.1 文本内容审核 (V3)

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以修改TextDetectionDataReq的Text 配置待检测的文本信息，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V3;
using HuaweiCloud.SDK.Moderation.V3.Model;

namespace RunTextModerationSolution
{
    class Program
    {
        static void Main(string[] args)
        {
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
            中密文存放，使用时解密，确保安全
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
            HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
            EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
            EnvironmentVariableTarget.Machine);

            var config = HttpConfig.GetDefaultConfig();
            config.IgnoreSslVerification = true;
            var auth = new BasicCredentials(ak, sk);
```



```
var client = ModerationClient.NewBuilder()
    .WithCredential(auth)
    .WithRegion(ModerationRegion.ValueOf("xxx")) //把xxx替换成服务所在的区域，例如北京四：
cn-north-4。
    .WithHttpConfig(config)
    .Build();

var req = new RunTextModerationRequest
{
};
TextDetectionDataReq databody = new TextDetectionDataReq()
{
    Text = "test"
};
req.Body = new TextDetectionReq()
{
    Data = databody,
    EventType = "comment"
};

try
{
    var resp = client.RunTextModeration(req);
    var respStatusCode = resp.HttpStatusCode;
    Console.WriteLine(respStatusCode);
}
catch (RequestTimeoutException requestTimeoutException)
{
    Console.WriteLine(requestTimeoutException.ErrorMessage);
}
catch (ServiceResponseException clientRequestException)
{
    Console.WriteLine(clientRequestException.HttpStatusCode);
    Console.WriteLine(clientRequestException.ErrorCode);
    Console.WriteLine(clientRequestException.ErrorMsg);
}
catch (ConnectionException connectionException)
{
    Console.WriteLine(connectionException.ErrorMessage);
}
}
```

2. 控制台输出200即表示程序执行成功，[文本内容审核结果](#)输出到控制台。

```
200
{
  "request_id": "d81702cfd3599e103030c3d52d6f955f",
  "result": {
    "suggestion": "pass",
    "label": "normal",
    "details": []
  }
}
```

### 8.3.1.2 文本内容审核 (V2)

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以修改TextDetectionItemsReq的text配置待检测的文本信息，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
```

```
using HuaweiCloud.SDK.Moderation.V2;
using HuaweiCloud.SDK.Moderation.V2.Model;

namespace RunTextModerationSolution
{
    class Program
    {
        static void Main(string[] args)
        {
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
            //中密文存放，使用时解密，确保安全
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
            //HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
            EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
            EnvironmentVariableTarget.Machine);

            var config = HttpConfig.GetDefaultConfig();
            config.IgnoreSslVerification = true;
            var auth = new BasicCredentials(ak, sk);

            var client = ModerationClient.NewBuilder()
                .WithCredential(auth)
                .WithRegion(ModerationRegion.ValueOf("xxx")) //把xxx替换成服务所在的区域，例如北京
                .WithHttpConfig(config)
                .Build();

            var req = new RunTextModerationRequest
            {
            };
            List<TextDetectionItemsReq> listTextDetectionItemsReqItems = new
            List<TextDetectionItemsReq>();
            listTextDetectionItemsReqItems.Add(new TextDetectionItemsReq()
            {
                Text = "text", //此处输入待检测文本
                Type = "content"
            });
            List<String> listTextDetectionReqCategories = new List<String>();
            listTextDetectionReqCategories.Add("porn");
            listTextDetectionReqCategories.Add("abuse");
            listTextDetectionReqCategories.Add("contraband");
            listTextDetectionReqCategories.Add("flood");
            req.Body = new TextDetectionReq()
            {
                Items = listTextDetectionItemsReqItems,
                Categories = listTextDetectionReqCategories
            };

            try
            {
                var resp = client.RunTextModeration(req);
                var respStatusCode = resp.HttpStatusCode;
                Console.WriteLine(respStatusCode);
                Console.WriteLine(JsonConvert.DeserializeObject(resp.HttpBody));
            }
            catch (RequestTimeoutException requestTimeoutException)
            {
                Console.WriteLine(requestTimeoutException.ErrorMessage);
            }
            catch (ServiceResponseException clientRequestException)
            {
                Console.WriteLine(clientRequestException.HttpStatusCode);
                Console.WriteLine(clientRequestException.ErrorCode);
                Console.WriteLine(clientRequestException.ErrorMessage);
            }
            catch (ConnectionException connectionException)
            {
            }
        }
    }
}
```

```
    {  
        Console.WriteLine(connectionException.ErrorMessage);  
    }  
}
```

2. 控制台输出200即表示程序执行成功，[文本内容审核结果](#)输出到控制台。

```
200  
{'result': {'detail': {'contraband': ['亚砷酸钾'], 'porn': ['luo聊']},  
  'suggestion': 'block'}}
```

## 8.3.2 图像审核

### 8.3.2.1 图像内容审核 (V3)

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以修改ImageDetectionReq的Image或Url配置待审核图像信息（image和url参数二选一），示例中以url为例配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
using System;  
using System.Collections.Generic;  
using HuaweiCloud.SDK.Core;  
using HuaweiCloud.SDK.Core.Auth;  
using HuaweiCloud.SDK.Moderation;  
using HuaweiCloud.SDK.Moderation.V3;  
using HuaweiCloud.SDK.Moderation.V3.Model;  
  
namespace CheckImageModerationSolution  
{  
    class Program  
    {  
        static void Main(string[] args)  
        {  
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量  
            //中密文存放，使用时解密，确保安全  
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量  
            //HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK  
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",  
                EnvironmentVariableTarget.Machine);  
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",  
                EnvironmentVariableTarget.Machine);  
  
            const string projectId = "project_id";  
            var config = HttpConfig.GetDefaultConfig();  
            config.IgnoreSslVerification = true;  
            var auth = new BasicCredentials(ak, sk, projectId);  
  
            var client = ModerationClient.NewBuilder()  
                .WithCredential(auth)  
                .WithRegion(ModerationRegion.ValueOf("xxx")) //把xxx替换成服务所在的区域，例如北京四：cn-north-4。  
                .WithHttpConfig(config)  
                .Build();  
  
            var req = new CheckImageModerationRequest  
            {  
            };  
            List<string> listCategoriesbody = new List<string>();  
            listCategoriesbody.Add("porn");  
            req.Body = new ImageDetectionReq()  
            {  
                Url = "http://www.xxxx.xxxx",  
                Categories = listCategoriesbody,  
            }  
        }  
    }  
}
```

```
        EventType = "head_image"
    };

    try
    {
        var resp = client.CheckImageModeration(req);
        var respStatusCode = resp.HttpStatusCode;
        Console.WriteLine(respStatusCode);
        Console.WriteLine(resp);
    }
    catch (RequestTimeoutException requestTimeoutException)
    {
        Console.WriteLine(requestTimeoutException.ErrorMessage);
    }
    catch (ServiceResponseException clientRequestException)
    {
        Console.WriteLine(clientRequestException.HttpStatusCode);
        Console.WriteLine(clientRequestException.ErrorCode);
        Console.WriteLine(clientRequestException.ErrorMessage);
    }
    catch (ConnectionException connectionException)
    {
        Console.WriteLine(connectionException.ErrorMessage);
    }
    }
}
```

2. 控制台输出200即表示程序执行成功，[图像内容审核结果](#)输出到控制台。

```
200
{"request_id": "69b424920668cb15e6d25eef879a023b", "result": {"suggestion": "block", "category":
"image_text", "details": [{"suggestion": "block", "category": "image_text", "confidence": 1.0,
"qr_location": {"top_left_x": 74, "top_left_y": 66, "bottom_right_x": 151, "bottom_right_y": 142},
"qr_content": "http://xxxxxx/xxxxx", "label": "qr_code"}, {"suggestion": "block", "category":
"image_text", "confidence": 0.98779297, "label": "ad"}, {"suggestion": "block", "category":
"image_text", "confidence": 1.0, "label": "qr_code"}], "ocr_text": "xxxxxxxx"}}
```

### 8.3.2.2 图像内容审核 (V2)

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以修改ImageDetectionReq的Image或Url配置待审核图像信息（image和url参数二选一），示例中以url为例配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看[地区和终端节点](#)。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V2;
using HuaweiCloud.SDK.Moderation.V2.Model;

namespace RunImageModerationSolution
{
    class Program
    {
        static void Main(string[] args)
        {
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
            中密文存放，使用时解密，确保安全
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
            HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
            EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
            EnvironmentVariableTarget.Machine);
```

```
var config = HttpConfig.GetDefaultConfig();
config.IgnoreSslVerification = true;
var auth = new BasicCredentials(ak, sk);

var client = ModerationClient.NewBuilder()
    .WithCredential(auth)
    .WithRegion(ModerationRegion.ValueOf("xxx")) //把xxx替换成服务所在的区域，例如北京
四：cn-north-4。
    .WithHttpConfig(config)
    .Build();

var req = new RunImageModerationRequest
{
};
List<ImageDetectionReq.CategoriesEnum> listImageDetectionReqCategories = new
List<ImageDetectionReq.CategoriesEnum>();

listImageDetectionReqCategories.Add(ImageDetectionReq.CategoriesEnum.FromValue("terrorism"));
listImageDetectionReqCategories.Add(ImageDetectionReq.CategoriesEnum.FromValue("porn"));
listImageDetectionReqCategories.Add(ImageDetectionReq.CategoriesEnum.FromValue("ad"));
req.Body = new ImageDetectionReq()
{
    Threshold = 0,
    Categories = listImageDetectionReqCategories,
    ModerationRule = "default",
    Url = "https://XXX.jpg" //此处替换为公网可以访问的图片地址
};

try
{
    var resp = client.RunImageModeration(req);
    var respStatusCode = resp.HttpStatusCode;
    Console.WriteLine(respStatusCode);
    Console.WriteLine(JsonConvert.DeserializeObject(resp.HttpBody));
}
catch (RequestTimeoutException requestTimeoutException)
{
    Console.WriteLine(requestTimeoutException.ErrorMessage);
}
catch (ServiceResponseException clientRequestException)
{
    Console.WriteLine(clientRequestException.HttpStatusCode);
    Console.WriteLine(clientRequestException.ErrorCode);
    Console.WriteLine(clientRequestException.ErrorMsg);
}
catch (ConnectionException connectionException)
{
    Console.WriteLine(connectionException.ErrorMessage);
}
}
}
```

2. 控制台输出200即表示程序执行成功，[图像内容审核结果](#)输出到控制台。

```
200
{'result': {'category_suggestions': {'ad': 'pass',
                                   'porn': 'pass',
                                   'terrorism': 'pass'},
'detail': {'ad': [{'confidence': 0.0, 'label': 'ad'},
                  {'confidence': 1.0, 'label': 'normal'}],
'porn': [{'confidence': 0.9883, 'label': 'normal'},
          {'confidence': 0.0039, 'label': 'porn'},
          {'confidence': 0.0078, 'label': 'sexy'}],
'terrorism': [{'confidence': 0.0002,
                'label': 'terrorist'},
               {'confidence': 0.0002, 'label': 'fascist'},
               {'confidence': 0.0001, 'label': 'cult'},
               {'confidence': 0.0002,
                'label': 'negative_politics'},
```

```
{'confidence': 0.0001, 'label': 'kidnap'},  
{'confidence': 0.0006, 'label': 'riot'},  
{'confidence': 0.0001, 'label': 'parade'},  
{'confidence': 0.0002, 'label': 'corpse'},  
{'confidence': 0.0001, 'label': 'bloody'},  
{'confidence': 0.0001, 'label': 'knife'},  
{'confidence': 0.0001, 'label': 'gun'},  
{'confidence': 0.0002,  
 'label': 'military_weapon'},  
{'confidence': 0.0,  
 'label': 'special_characters'},  
{'confidence': 0.9994,  
 'label': 'normal'}}],  
'suggestion': 'pass'}}
```

### 8.3.2.3 图像内容审核（批量）（V2）

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以修改ImageBatchModerationReq 的Urls 配置待审核的图像url（仅支持url方式），配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
using System;  
using System.Collections.Generic;  
using HuaweiCloud.SDK.Core;  
using HuaweiCloud.SDK.Core.Auth;  
using HuaweiCloud.SDK.Moderation;  
using HuaweiCloud.SDK.Moderation.V2;  
using HuaweiCloud.SDK.Moderation.V2.Model;  
  
namespace RunImageBatchModerationSolution  
{  
    class Program  
    {  
        static void Main(string[] args)  
        {  
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量  
            //中密文存放，使用时解密，确保安全  
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量  
            //HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK  
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",  
                EnvironmentVariableTarget.Machine);  
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",  
                EnvironmentVariableTarget.Machine);  
  
            var config = HttpConfig.GetDefaultConfig();  
            config.IgnoreSslVerification = true;  
            var auth = new BasicCredentials(ak, sk);  
  
            var client = ModerationClient.NewBuilder()  
                .WithCredential(auth)  
                .WithRegion(ModerationRegion.ValueOf("xxx")) //把xxx替换成服务所在的区域，例如北京四：cn-north-4。  
                .WithHttpConfig(config)  
                .Build();  
  
            var req = new RunImageBatchModerationRequest  
            {  
            };  
            List<ImageBatchModerationReq.CategoriesEnum> listImageBatchModerationReqCategories =  
            new List<ImageBatchModerationReq.CategoriesEnum>();  
  
            listImageBatchModerationReqCategories.Add(ImageBatchModerationReq.CategoriesEnum.FromValue("terrorism"));  
  
            listImageBatchModerationReqCategories.Add(ImageBatchModerationReq.CategoriesEnum.FromValue("porn"));  
        }  
    }  
}
```

```
listImageBatchModerationReqCategories.Add(ImageBatchModerationReq.CategoriesEnum.FromValue("ad"));
List<String> listImageBatchModerationReqUrls = new List<String>();
listImageBatchModerationReqUrls.Add("https://XXX.jpg"); //此处替换为公网可以访问的图片地址
req.Body = new ImageBatchModerationReq()
{
    Threshold = 0,
    Categories = listImageBatchModerationReqCategories,
    Urls = listImageBatchModerationReqUrls
};
try
{
    var resp = client.RunImageBatchModeration(req);
    var respStatusCode = resp.HttpStatusCode;
    Console.WriteLine(respStatusCode);
    Console.WriteLine(JsonConvert.DeserializeObject(resp.HttpBody));
}
catch (RequestTimeoutException requestTimeoutException)
{
    Console.WriteLine(requestTimeoutException.ErrorMessage);
}
catch (ServiceResponseException clientRequestException)
{
    Console.WriteLine(clientRequestException.HttpStatusCode);
    Console.WriteLine(clientRequestException.ErrorCode);
    Console.WriteLine(clientRequestException.ErrorMsg);
}
catch (ConnectionException connectionException)
{
    Console.WriteLine(connectionException.ErrorMessage);
}
}
```

2. 控制台输出200即表示程序执行成功，[图像内容审核批量任务](#)提交的结果输出到控制台。

```
200
{"result": [{"category_suggestions": {"ad": "pass",
                                     "porn": "pass",
                                     "terrorism": "pass"},
            "detail": {"ad": [{"confidence": 0.0, "label": "ad"},
                            {"confidence": 1.0, "label": "normal"}],
                      "porn": [{"confidence": 0.9883, "label": "normal"},
                                {"confidence": 0.0039, "label": "porn"},
                                {"confidence": 0.0078, "label": "sexy"}],
                      "terrorism": [{"confidence": 0.0002,
                                     "label": "terrorist"},
                                    {"confidence": 0.0002,
                                     "label": "fascist"},
                                    {"confidence": 0.0001, "label": "cult"},
                                    {"confidence": 0.0002,
                                     "label": "negative_politics"},
                                    {"confidence": 0.0001, "label": "kidnap"},
                                    {"confidence": 0.0006, "label": "riot"},
                                    {"confidence": 0.0001, "label": "parade"},
                                    {"confidence": 0.0002, "label": "corpse"},
                                    {"confidence": 0.0001, "label": "bloody"},
                                    {"confidence": 0.0001, "label": "knife"},
                                    {"confidence": 0.0001, "label": "gun"},
                                    {"confidence": 0.0002,
                                     "label": "military_weapon"},
                                    {"confidence": 0.0,
                                     "label": "special_characters"},
                                    {"confidence": 0.9994,
                                     "label": "normal"}]
            }
        ]}
```

```
'suggestion': 'pass',  
'url': 'https://sdk-obs-source-save.obs.cn-north-4.myhuaweicloud.com/terrorism.jpg']}]}
```

### 8.3.2.4 内容审核-图像（异步批量）（V2）

#### 8.3.2.4.1 提交任务

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以配置RunTaskSubmitRequest 的Urls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
using System;  
using System.Collections.Generic;  
using HuaweiCloud.SDK.Core;  
using HuaweiCloud.SDK.Core.Auth;  
using HuaweiCloud.SDK.Moderation;  
using HuaweiCloud.SDK.Moderation.V2;  
using HuaweiCloud.SDK.Moderation.V2.Model;  
  
namespace RunTaskSubmitSolution  
{  
    class Program  
    {  
        static void Main(string[] args)  
        {  
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量  
            //中密文存放，使用时解密，确保安全  
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量  
            //HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK  
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",  
                EnvironmentVariableTarget.Machine);  
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",  
                EnvironmentVariableTarget.Machine);  
  
            var config = HttpConfig.GetDefaultConfig();  
            config.IgnoreSslVerification = true;  
            var auth = new BasicCredentials(ak, sk);  
  
            var client = ModerationClient.NewBuilder()  
                .WithCredential(auth)  
                .WithRegion(ModerationRegion.ValueOf("xxx")) //把xxx替换成服务所在的区域，例如北京四：cn-north-4。  
                .WithHttpConfig(config)  
                .Build();  
  
            var req = new RunTaskSubmitRequest  
            {  
            };  
            List<TaskSubmitReq.CategoriesEnum> listTaskSubmitReqCategories = new  
            List<TaskSubmitReq.CategoriesEnum>();  
            listTaskSubmitReqCategories.Add(TaskSubmitReq.CategoriesEnum.FromValue("porn"));  
            listTaskSubmitReqCategories.Add(TaskSubmitReq.CategoriesEnum.FromValue("terrorism"));  
            List<String> listTaskSubmitReqUrls = new List<String>();  
            listTaskSubmitReqUrls.Add("https://XXX.jpg"); //此处替换为公网可以访问的图片地址  
            req.Body = new TaskSubmitReq()  
            {  
                Categories = listTaskSubmitReqCategories,  
                Urls = listTaskSubmitReqUrls  
            };  
            try  
            {  
                var resp = client.RunTaskSubmit(req);  
                var respStatusCode = resp.HttpStatusCode;
```



```
        Console.WriteLine(respStatusCode);
        Console.WriteLine(JsonConvert.DeserializeObject(resp.HttpBody));
    }
    catch (RequestTimeoutException requestTimeoutException)
    {
        Console.WriteLine(requestTimeoutException.ErrorMessage);
    }
    catch (ServiceResponseException clientRequestException)
    {
        Console.WriteLine(clientRequestException.HttpStatusCode);
        Console.WriteLine(clientRequestException.ErrorCode);
        Console.WriteLine(clientRequestException.ErrorMessage);
    }
    catch (ConnectionException connectionException)
    {
        Console.WriteLine(connectionException.ErrorMessage);
    }
    }
}
```

2. 控制台输出200即表示程序执行成功，异步批量任务提交的结果输出到控制台。

```
200
{'result': {'job_id': 'xxx'}}
```

### 8.3.2.4.2 查询任务

1. 本章节对图像内容审核异步批量-查询任务AK/SK方式使用SDK进行示例说明。示例代码中需要修改RunCheckResultRequest的JobId配置审核任务的id，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V2;
using HuaweiCloud.SDK.Moderation.V2.Model;

namespace RunCheckResultSolution
{
    class Program
    {
        static void Main(string[] args)
        {
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
                EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
                EnvironmentVariableTarget.Machine);

            var config = HttpConfig.GetDefaultConfig();
            config.IgnoreSslVerification = true;
            var auth = new BasicCredentials(ak, sk);

            var client = ModerationClient.NewBuilder()
                .WithCredential(auth)
                .WithRegion(ModerationRegion.ValueOf("xxx")) //把xxx替换成服务所在的区域，例如北京四：cn-north-4。
                .WithHttpConfig(config)
                .Build();

            var req = new RunCheckResultRequest
```

```
{
  JobId = "2991572e-f503-11eb-a32d-88bd0dde8061"
};

try
{
  var resp = client.RunCheckResult(req);
  var respStatusCode = resp.HttpStatusCode;
  Console.WriteLine(respStatusCode);
  Console.WriteLine(JsonConvert.SerializeObject(resp.HttpBody));
}
catch (RequestTimeoutException requestTimeoutException)
{
  Console.WriteLine(requestTimeoutException.ErrorMessage);
}
catch (ServiceResponseException clientRequestException)
{
  Console.WriteLine(clientRequestException.HttpStatusCode);
  Console.WriteLine(clientRequestException.ErrorCode);
  Console.WriteLine(clientRequestException.ErrorMsg);
}
catch (ConnectionException connectionException)
{
  Console.WriteLine(connectionException.ErrorMessage);
}
}
}
```

1. 控制台输出200即表示程序执行成功，异步批量[查询任务](#)的结果输出到控制台。

```
200
{
  "result": {
    "create_time": "2021-08-04T08:30:41Z",
    "items": [
      {
        "category_suggestions": {
          "porn": "pass",
          "terrorism": "pass",
          "detail": {
            "ad": None,
            "porn": [
              {
                "confidence": 0.9883,
                "label": "normal",
                "confidence": 0.0039,
                "label": "porn",
                "confidence": 0.0078,
                "label": "sexy"
              },
              {
                "confidence": 0.0002,
                "label": "terrorist",
                "confidence": 0.0002,
                "label": "fascist",
                "confidence": 0.0001,
                "label": "cult",
                "confidence": 0.0002,
                "label": "negative_politics",
                "confidence": 0.0001,
                "label": "kidnap",
                "confidence": 0.0006,
                "label": "riot",
                "confidence": 0.0001,
                "label": "parade",
                "confidence": 0.0002,
                "label": "corpse",
                "confidence": 0.0001,
                "label": "bloody",
                "confidence": 0.0001,
                "label": "knife",
                "confidence": 0.0001,
                "label": "gun",
                "confidence": 0.0002,
                "label": "military_weapon",
                "confidence": 0.0,
                "label": "special_characters",
                "confidence": 0.9994,
                "label": "normal"
              }
            ]
          }
        }
      }
    ]
  }
}
```

```
'suggestion': 'pass',  
'url': 'https://sdk-obs-source-save.obs.cn-north-4.myhuaweicloud.com/terrorism.jpg'],  
'job_id': 'xxx',  
'status': 'finish',  
'update_time': '2021-08-04T08:30:41Z']}]}
```

## 8.3.3 音频审核

### 8.3.3.1 创建音频内容审核作业

1. 本章节对创建音频审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用RunCreateAudioModerationJobRequest类的withUrls配置待审核的音频url（仅支持url方式），配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
using System;  
using System.Collections.Generic;  
using HuaweiCloud.SDK.Core;  
using HuaweiCloud.SDK.Core.Auth;  
using HuaweiCloud.SDK.Moderation;  
using HuaweiCloud.SDK.Moderation.V3;  
using HuaweiCloud.SDK.Moderation.V3.Model;  
  
namespace RunCreateAudioModerationJobSolution  
{  
    class Program  
    {  
        static void Main(string[] args)  
        {  
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量  
            //中密文存放，使用时解密，确保安全  
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量  
            //HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK  
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",  
                EnvironmentVariableTarget.Machine);  
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",  
                EnvironmentVariableTarget.Machine);  
  
            var config = HttpConfig.GetDefaultConfig();  
            config.IgnoreSslVerification = true;  
            var auth = new BasicCredentials(ak, sk);  
  
            var client = ModerationClient.NewBuilder()  
                .WithCredential(auth)  
                .WithRegion(ModerationRegion.ValueOf("xxx")) //把xxx替换成服务所在的区域，例如北京四：  
                //cn-north-4。  
                .WithHttpConfig(config)  
                .Build();  
  
            var req = new RunCreateAudioModerationJobRequest  
            {  
            };  
            List<AudioCreateRequest.CategoriesEnum> listCategoriesbody = new  
            List<AudioCreateRequest.CategoriesEnum>();  
            listCategoriesbody.Add(AudioCreateRequest.CategoriesEnum.FromValue("porn"));  
            AudioInputBody databody = new AudioInputBody()  
            {  
                Url = ""  
            };  
            req.Body = new AudioCreateRequest()  
            {  
                Categories = listCategoriesbody,  
                EventType = AudioCreateRequest.EventTypeEnum.FromValue("default"),  
                Data = databody  
            };  
        }  
    }  
}
```

```
try
{
    var resp = client.RunCreateAudioModerationJob(req);
    var respStatusCode = resp.HttpStatusCode;
    Console.WriteLine(respStatusCode); Console.WriteLine(JsonConvert.DeserializeObject(resp.HttpBody));
}
catch (RequestTimeoutException requestTimeoutException)
{
    Console.WriteLine(requestTimeoutException.ErrorMessage);
}
catch (ServiceResponseException clientRequestException)
{
    Console.WriteLine(clientRequestException.HttpStatusCode);
    Console.WriteLine(clientRequestException.ErrorCode);
    Console.WriteLine(clientRequestException.ErrorMsg);
}
catch (ConnectionException connectionException)
{
    Console.WriteLine(connectionException.ErrorMessage);
}
}
```

2. 控制台输出创建音频内容审核作业提交的结果，[创建音频内容审核](#)结果输出到控制台。

```
200
{
  "job_id": "xxx",
  "request_id": "172776779c903659cd1469f272e20e38"
}
```

### 8.3.3.2 查询音频内容审核作业

1. 本章节对查询音频内容审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunQueryAudioModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V3;
using HuaweiCloud.SDK.Moderation.V3.Model;

namespace RunQueryAudioModerationJobSolution
{
    class Program
    {
        static void Main(string[] args)
        {
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
                EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
                EnvironmentVariableTarget.Machine);

            var config = HttpConfig.GetDefaultConfig();
            config.IgnoreSslVerification = true;
            var auth = new BasicCredentials(ak, sk);
```

```
var client = ModerationClient.NewBuilder()
    .WithCredential(auth)
    .WithRegion(ModerationRegion.ValueOf("xxx")) //把xxx替换成服务所在的区域，例如北京四：cn-north-4。
    .WithHttpConfig(config)
    .Build();

var req = new RunQueryAudioModerationJobRequest
{
    JobId = "xxx" //此处需要输入您的jobID
};

try
{
    var resp = client.RunQueryAudioModerationJob(req);
    var respStatusCode = resp.HttpStatusCode;
    Console.WriteLine(respStatusCode);
    Console.WriteLine(JsonConvert.DeserializeObject(resp.HttpBody));
}
catch (RequestTimeoutException requestTimeoutException)
{
    Console.WriteLine(requestTimeoutException.ErrorMessage);
}
catch (ServiceResponseException clientRequestException)
{
    Console.WriteLine(clientRequestException.HttpStatusCode);
    Console.WriteLine(clientRequestException.ErrorCode);
    Console.WriteLine(clientRequestException.ErrorMsg);
}
catch (ConnectionException connectionException)
{
    Console.WriteLine(connectionException.ErrorMessage);
}
}
```

2. 控制台输出200即表示程序执行成功，[查询音频内容审核](#)结果输出到控制台。

```
200
{
  "job_id":"xxx",
  "status":"succeeded",
  "result":{
    "suggestion":"block",
    "details":[
      {
        "start_time":0,
        "suggestion":"block",
        "end_time":10,
        "label":"porn",
        "audio_text":"xxxx",
        "segments":[
          {
            "segment":"xxx"
          },
          {
            "segment":"xxx"
          },
          {
            "segment":"xxx"
          }
        ]
      }
    ],
    "start_time":30,
    "suggestion":"block",
    "end_time":40,
    "label":"porn",
    "audio_text":"xxx",
  }
}
```

```
        "segments":[
            {
                "segment":"xx"
            }
        ]
    },
    "audio_text":"xxxxxx"
},
"request_params":{
    "event_type":"default",
    "data":{
        "url":"https://xxxx.wav"
    },
    "callback":"http://xxx",
    "categories":[
        "porn",
        "ad"
    ]
},
"create_time":"2022-06-20 11:05:29",
"update_time":"2022-06-20 11:07:08",
"request_id":"2419446b1fe14203f64e4018d12db3dd"
}
```

## 8.3.4 视频审核

### 8.3.4.1 创建视频内容审核作业

1. 本章节对创建视频审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用RunCreateVideoModerationJobRequest类的withUrls配置待审核的视频url（仅支持url方式），配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V3;
using HuaweiCloud.SDK.Moderation.V3.Model;

namespace RunCreateVideoModerationJobSolution
{
    class Program
    {
        static void Main(string[] args)
        {
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
            //密文存放，使用时解密，确保安全
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
            //HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
                EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
                EnvironmentVariableTarget.Machine);

            var config = HttpConfig.GetDefaultConfig();
            config.IgnoreSslVerification = true;
            var auth = new BasicCredentials(ak, sk);

            var client = ModerationClient.NewBuilder()
                .WithCredential(auth)
                .WithRegion(ModerationRegion.ValueOf("xxx")) //把xxx替换成服务所在的区域，例如北京四：cn-north-4
        }
    }
}
```

```
.WithHttpConfig(config)
.Build();

var req = new RunCreateVideoModerationJobRequest
{
};
List<VideoCreateRequest.AudioCategoriesEnum> listAudioCategoriesbody = new
List<VideoCreateRequest.AudioCategoriesEnum>();
listAudioCategoriesbody.Add(VideoCreateRequest.AudioCategoriesEnum.FromValue("porn"));
List<VideoCreateRequest.ImageCategoriesEnum> listImageCategoriesbody = new
List<VideoCreateRequest.ImageCategoriesEnum>();
listImageCategoriesbody.Add(VideoCreateRequest.ImageCategoriesEnum.FromValue("porn"));
VideoCreateRequestData databody = new VideoCreateRequestData()
{
    Url = "http://xxx.xx.xxx",
    FrameInterval = 5.5
};
req.Body = new VideoCreateRequest()
{
    Callback = "http://xxx.xx.xxx",
    AudioCategories = listAudioCategoriesbody,
    ImageCategories = listImageCategoriesbody,
    EventType = VideoCreateRequest.EventTypeEnum.FromValue("default"),
    Data = databody
};

try
{
    var resp = client.RunCreateVideoModerationJob(req);
    var respStatusCode = resp.HttpStatusCode;
    Console.WriteLine(respStatusCode);
}
catch (RequestTimeoutException requestTimeoutException)
{
    Console.WriteLine(requestTimeoutException.ErrorMessage);
}
catch (ServiceResponseException clientRequestException)
{
    Console.WriteLine(clientRequestException.HttpStatusCode);
    Console.WriteLine(clientRequestException.ErrorCode);
    Console.WriteLine(clientRequestException.ErrorMsg);
}
catch (ConnectionException connectionException)
{
    Console.WriteLine(connectionException.ErrorMessage);
}
}
}
```

2. 控制台输出创建视频内容审核作业的结果，[创建视频内容审核](#)结果输出到控制台。

```
200
{
  "request_id":"dbbcb75d1a174bfa899a38be38fdd107",
  "job_id":"xxx"
}
```

### 8.3.4.2 查询视频内容审核作业

1. 本章节对查询视频审核AK/SK方式使用SDK进行示例说明。  
示例代码中需要配置使用RunQueryVideoModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。  
服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
```

```
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V3;
using HuaweiCloud.SDK.Moderation.V3.Model;

namespace RunQueryVideoModerationJobSolution
{
    class Program
    {
        static void Main(string[] args)
        {
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
            //密文存放，使用时解密，确保安全
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
            //HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
            EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
            EnvironmentVariableTarget.Machine);

            var config = HttpConfig.GetDefaultConfig();
            config.IgnoreSslVerification = true;
            var auth = new BasicCredentials(ak, sk);

            var client = ModerationClient.NewBuilder()
                .WithCredential(auth)
                .WithRegion(ModerationRegion.ValueOf("xxx")) //把xxx替换成服务所在的区域，例如北
                京四：cn-north-4
                .WithHttpConfig(config)
                .Build();

            var req = new RunQueryVideoModerationJobRequest
            {
                JobId = "xxxx" //此处需要输入您的jobID
            };

            try
            {
                var resp = client.RunQueryVideoModerationJob(req);
                var respStatusCode = resp.HttpStatusCode;
                Console.WriteLine(respStatusCode);
                Console.WriteLine(JsonConvert.DeserializeObject(resp.HttpBody));
            }
            catch (RequestTimeoutException requestTimeoutException)
            {
                Console.WriteLine(requestTimeoutException.ErrorMessage);
            }
            catch (ServiceResponseException clientRequestException)
            {
                Console.WriteLine(clientRequestException.HttpStatusCode);
                Console.WriteLine(clientRequestException.ErrorCode);
                Console.WriteLine(clientRequestException.ErrorMessage);
            }
            catch (ConnectionException connectionException)
            {
                Console.WriteLine(connectionException.ErrorMessage);
            }
        }
    }
}
```

- 控制台输出查询视频内容审核作业提交的结果，[查询视频内容审核](#)结果输出到控制台。

```
200
{
  "request_id": "xxxx",
  "job_id": "xxx",
  "status": "succeeded",
  "request_params": {
```



```
"data":{
  "url":"xxx",
  "frame_interval":5
},
"event_type":"default",
"image_categories":[
  "porn",
  "terrorism",
  "image_text"
],
"audio_categories":[
  "porn",
  "ad",
  "moan",
  "abuse"
],
"callback":"xxx"
},
"create_time":"2022-07-30T08:57:11.011Z",
"update_time":"2022-07-30T08:57:14.014Z",
"result":{
  "suggestion":"block",
  "image_detail":[
    {
      "suggestion":"block",
      "category":"porn",
      "ocr_text":"123",
      "time":0,
      "detail":[
        {
          "confidence":0.676015138626099,
          "category":"porn",
          "suggestion":"block",
          "label":"pornography"
        },
        {
          "confidence":0.666015138626099,
          "category":"porn",
          "suggestion":"review",
          "label":"sexy_female"
        },
        {
          "confidence":0.666015138626099,
          "category":"xxx",
          "suggestion":"block",
          "label":"leader"
        },
        {
          "confidence":0.691423773765564,
          "category":"xxx",
          "suggestion":"block",
          "face_location":{
            "top_left_x":12,
            "top_left_y":13,
            "bottom_right_x":200,
            "bottom_right_y":240
          },
          "label":"leader"
        },
        {
          "confidence":0.691423773765564,
          "category":"porn",
          "suggestion":"block",
          "face_location":{
            "top_left_x":12,
            "top_left_y":13,
            "bottom_right_x":100,
            "bottom_right_y":2000
          }
        }
      ]
    }
  ]
}
```

```
    "label": "leader"
  },
  {
    "confidence": 0.891423773765564,
    "category": "image_text",
    "suggestion": "block",
    "label": "qr_code"
  },
  {
    "confidence": 0.891423773765564,
    "category": "image_text",
    "suggestion": "block",
    "label": "qr_code",
    "qr_content": "xxxxxxxx",
    "qr_location": {
      "top_left_x": 12,
      "top_left_y": 13,
      "bottom_right_x": 100,
      "bottom_right_y": 2000
    }
  }
],
{
  "confidence": 0.891423773765564,
  "category": "image_text",
  "suggestion": "block",
  "label": "porn",
  "segments": [
    {
      "segment": "xxx"
    },
    {
      "segment": "xx"
    }
  ]
}
]
},
"audio_detail": [
  {
    "suggestion": "block",
    "label": "porn",
    "audio_text": "xxxxx",
    "end_time": 10,
    "start_time": 0,
    "detail": [
      {
        "confidence": 0.999117187582349,
        "label": "porn",
        "suggestion": "block",
        "segments": [
          {
            "segment": "xxx"
          }
        ]
      },
      {
        "confidence": 0.885117187582349,
        "label": "porn",
        "suggestion": "block"
      }
    ]
  }
]
}
```

### 8.3.5 音频流审核

### 8.3.5.1 创建音频流内容审核作业

1. 本章节对创建音频流审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用AudioStreamCreateRequestData类的withUrls配置待审核的音频流url（仅支持url方式），配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V3;
using HuaweiCloud.SDK.Moderation.V3.Model;

namespace RunCreateAudioStreamModerationJobSolution
{
    class Program
    {
        static void Main(string[] args)
        {
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
            //中密文存放，使用时解密，确保安全
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
            //HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
            EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
            EnvironmentVariableTarget.Machine);

            const string projectId = "<YOUR PROJECT_ID>";

            var config = HttpConfig.GetDefaultConfig();
            config.IgnoreSslVerification = true;
            var auth = new BasicCredentials(ak, sk, projectId);

            var client = ModerationClient.NewBuilder()
                .WithCredential(auth)
                .WithRegion(ModerationRegion.ValueOf("xxx")) //把xxx替换成服务所在的区域，例如北京
                .WithHttpConfig(config)
                .Build();

            var req = new RunCreateAudioStreamModerationJobRequest
            {
            };
            List<string> listCategoriesbody = new List<string>();
            listCategoriesbody.Add("ad");
            AudioStreamCreateRequestData databody = new AudioStreamCreateRequestData()
            {
                Url = "http://xxx"
            };
            req.Body = new AudioStreamCreateRequest()
            {
                Callback = "http://xxxxxx",
                Categories = listCategoriesbody,
                EventType = "default",
                Data = databody
            };

            try
            {
                var resp = client.RunCreateAudioStreamModerationJob(req);
                var respStatusCode = resp.HttpStatusCode;
                Console.WriteLine(respStatusCode);
                Console.WriteLine(resp);
            }
            catch (RequestTimeoutException requestTimeoutException)
            {
            }
        }
    }
}
```

```
    {
        Console.WriteLine(requestTimeoutException.ErrorMessage);
    }
    catch (ServiceResponseException clientRequestException)
    {
        Console.WriteLine(clientRequestException.HttpStatusCode);
        Console.WriteLine(clientRequestException.RequestId);
        Console.WriteLine(clientRequestException.ErrorCode);
        Console.WriteLine(clientRequestException.ErrorMessage);
    }
    catch (ConnectionException connectionException)
    {
        Console.WriteLine(connectionException.ErrorMessage);
    }
}
}
```

2. 控制台输出创建音频流内容审核作业的结果。

```
200
{
  "request_id":"303fbd70c9813a2476bad125fa436f00",
  "job_id":"11690387200_ffa1f5bb9a58451b86816gdfc654610e"
}
```

### 8.3.5.2 关闭音频流内容审核作业

1. 本章节对关闭音频流审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunCloseAudioStreamModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V3;
using HuaweiCloud.SDK.Moderation.V3.Model;

namespace RunCloseAudioStreamModerationJobSolution
{
    class Program
    {
        static void Main(string[] args)
        {
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
            //中密文存放，使用时解密，确保安全
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
            //HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
                EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
                EnvironmentVariableTarget.Machine);

            const string projectId = "<YOUR_PROJECT_ID>";

            var config = HttpConfig.GetDefaultConfig();
            config.IgnoreSslVerification = true;
            var auth = new BasicCredentials(ak, sk, projectId);

            var client = ModerationClient.NewBuilder()
                .WithCredential(auth)
                .WithRegion(ModerationRegion.ValueOf("xxx"))//把xxx替换成服务所在的区域，例如北京
                .WithHttpConfig(config)
                .Build();
```

```
var req = new RunCloseAudioStreamModerationJobRequest
{
    JobId = "xxxxx"
};

try
{
    var resp = client.RunCloseAudioStreamModerationJob(req);
    var respStatusCode = resp.HttpStatusCode;
    Console.WriteLine(respStatusCode);
    Console.WriteLine(resp);
}
catch (RequestTimeoutException requestTimeoutException)
{
    Console.WriteLine(requestTimeoutException.ErrorMessage);
}
catch (ServiceResponseException clientRequestException)
{
    Console.WriteLine(clientRequestException.HttpStatusCode);
    Console.WriteLine(clientRequestException.RequestId);
    Console.WriteLine(clientRequestException.ErrorCode);
    Console.WriteLine(clientRequestException.ErrorMessage);
}
catch (ConnectionException connectionException)
{
    Console.WriteLine(connectionException.ErrorMessage);
}
}
```

2. 控制台输出关闭音频流内容审核作业提交的结果。

```
200
{
    "result": "success"
}
```

## 8.3.6 视频流审核

### 8.3.6.1 创建视频流内容审核作业

1. 本章节对创建视频审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用VideoStreamCreateRequestData类的withUrls配置待审核的视频url（仅支持url方式），配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V3;
using HuaweiCloud.SDK.Moderation.V3.Model;

namespace RunCreateVideoStreamModerationJobSolution
{
    class Program
    {
        static void Main(string[] args)
        {
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
            中密文存放，使用时解密，确保安全
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
            HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
            EnvironmentVariableTarget.Machine);
```

```
string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
EnvironmentVariableTarget.Machine);

const string projectId = "<YOUR_PROJECT_ID>";

var config = HttpConfig.GetDefaultConfig();
config.IgnoreSslVerification = true;
var auth = new BasicCredentials(ak, sk, projectId);

var client = ModerationClient.NewBuilder()
    .WithCredential(auth)
    .WithRegion(ModerationRegion.ValueOf("xxx"))//把xxx替换成服务所在的区域，例如北京
四：cn-north-4。
    .WithHttpConfig(config)
    .Build();

var req = new RunCreateVideoStreamModerationJobRequest
{
};
List<VideoStreamCreateRequest.ImageCategoriesEnum> listImageCategoriesbody = new
List<VideoStreamCreateRequest.ImageCategoriesEnum>();
listImageCategoriesbody.Add(VideoStreamCreateRequest.ImageCategoriesEnum.FromValue("politics"));
;
VideoStreamCreateRequestData databody = new VideoStreamCreateRequestData()
{
    Url = "http://xxx"
};
req.Body = new VideoStreamCreateRequest()
{
    Callback = "http://xxxxxx",
    ImageCategories = listImageCategoriesbody,
    EventType = VideoStreamCreateRequest.EventTypeEnum.FromValue("default"),
    Data = databody
};

try
{
    var resp = client.RunCreateVideoStreamModerationJob(req);
    var respStatusCode = resp.HttpStatusCode;
    Console.WriteLine(respStatusCode);
    Console.WriteLine(resp);
}
catch (RequestTimeoutException requestTimeoutException)
{
    Console.WriteLine(requestTimeoutException.ErrorMessage);
}
catch (ServiceResponseException clientRequestException)
{
    Console.WriteLine(clientRequestException.HttpStatusCode);
    Console.WriteLine(clientRequestException.RequestId);
    Console.WriteLine(clientRequestException.ErrorCode);
    Console.WriteLine(clientRequestException.ErrorMsg);
}
catch (ConnectionException connectionException)
{
    Console.WriteLine(connectionException.ErrorMessage);
}
}
}
```

## 2. 控制台输出创建视频内容审核作业的结果。

```
200
{
  "request_id":"fa520ddd6b54af51c8d1e6d19898656",
  "job_id":"01690387200_09ad14f155bb47e9bf2718ace57c73ed"
}
```

### 8.3.6.2 关闭视频流内容审核作业

1. 本章节对关闭视频流AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunCloseVideoStreamModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V3;
using HuaweiCloud.SDK.Moderation.V3.Model;

namespace RunCloseVideoStreamModerationJobSolution
{
    class Program
    {
        static void Main(string[] args)
        {
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
            //中密文存放，使用时解密，确保安全
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
            //HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
            EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
            EnvironmentVariableTarget.Machine);

            const string projectId = "<YOUR PROJECT_ID>";

            var config = HttpConfig.GetDefaultConfig();
            config.IgnoreSslVerification = true;
            var auth = new BasicCredentials(ak, sk, projectId);

            var client = ModerationClient.NewBuilder()
                .WithCredential(auth)
                .WithRegion(ModerationRegion.ValueOf("xxx"))//把xxx替换成服务所在的区域，例如北京
                .WithHttpConfig(config)
                .Build();

            var req = new RunCloseVideoStreamModerationJobRequest
            {
                JobId = "xxxxx"
            };

            try
            {
                var resp = client.RunCloseVideoStreamModerationJob(req);
                var respStatusCode = resp.HttpStatusCode;
                Console.WriteLine(respStatusCode);
                Console.WriteLine(resp);
            }
            catch (RequestTimeoutException requestTimeoutException)
            {
                Console.WriteLine(requestTimeoutException.ErrorMessage);
            }
            catch (ServiceResponseException clientRequestException)
            {
                Console.WriteLine(clientRequestException.HttpStatusCode);
                Console.WriteLine(clientRequestException.RequestId);
                Console.WriteLine(clientRequestException.ErrorCode);
                Console.WriteLine(clientRequestException.ErrorMessage);
            }
            catch (ConnectionException connectionException)
            {
            }
        }
    }
}
```

```
        Console.WriteLine(connectionException.ErrorMessage);
    }
}
}
```

2. 控制台输出关闭视频流内容审核作业提交的结果。

```
200
{
  "result": "success"
}
```

## 8.3.7 文档审核

### 8.3.7.1 创建文档内容审核作业

1. 本章节对创建文档内容审核作业AK/SK方式使用SDK进行示例说明。

示例代码中可以使用DocumentCreateRequestData类的withUrl配置待审核的文档url，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V3;
using HuaweiCloud.SDK.Moderation.V3.Model;

namespace RunCreateDocumentModerationJobSolution
{
    class Program
    {
        static void Main(string[] args)
        {
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
                EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
                EnvironmentVariableTarget.Machine);

            const string projectId = "<YOUR_PROJECT_ID>";

            var config = HttpConfig.GetDefaultConfig();
            config.IgnoreSslVerification = true;
            var auth = new BasicCredentials(ak, sk, projectId);

            var client = ModerationClient.NewBuilder()
                .WithCredential(auth)
                .WithRegion(ModerationRegion.ValueOf("xxx"))//把xxx替换成服务所在的区域，例如北京四：cn-north-4。
                .WithHttpConfig(config)
                .Build();

            var req = new RunCreateDocumentModerationJobRequest
            {
            };
            DocumentCreateRequestData databody = new DocumentCreateRequestData()
            {
                Url = "http://xxx",
                Format = "pdf"
            };
            req.Body = new DocumentCreateRequest()
```



```
{
    EventType = "default",
    Data = databody
};

try
{
    var resp = client.RunCreateDocumentModerationJob(req);
    var respStatusCode = resp.HttpStatusCode;
    Console.WriteLine(respStatusCode);
    Console.WriteLine(resp);
}
catch (RequestTimeoutException requestTimeoutException)
{
    Console.WriteLine(requestTimeoutException.ErrorMessage);
}
catch (ServiceResponseException clientRequestException)
{
    Console.WriteLine(clientRequestException.HttpStatusCode);
    Console.WriteLine(clientRequestException.RequestId);
    Console.WriteLine(clientRequestException.ErrorCode);
    Console.WriteLine(clientRequestException.ErrorMessage);
}
catch (ConnectionException connectionException)
{
    Console.WriteLine(connectionException.ErrorMessage);
}
}
}
```

2. 控制台输出创建视频内容审核作业的结果。

```
200
{
  "request_id":"c083957284ce1f2c0b910115d8232ec6",
  "job_id":"01690387200_e3dfb78d9f20463f98aee25e6895203a"
}
```

### 8.3.7.2 查询文档审核作业结果

1. 本章节对查询文档审核作业结果AK/SK方式使用SDK进行示例说明。  
示例代码中需要配置使用RunQueryDocumentModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

服务所在的应用区域和终端节点，详情请查看 [地区和终端节点](#)。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V3;
using HuaweiCloud.SDK.Moderation.V3.Model;

namespace RunQueryDocumentModerationJobSolution
{
    class Program
    {
        static void Main(string[] args)
        {
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
            //中密文存放，使用时解密，确保安全
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
            //HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
                EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
                EnvironmentVariableTarget.Machine);
        }
    }
}
```

```
const string projectId = "<YOUR_PROJECT_ID>";

var config = HttpConfig.GetDefaultConfig();
config.IgnoreSslVerification = true;
var auth = new BasicCredentials(ak, sk, projectId);

var client = ModerationClient.NewBuilder()
    .WithCredential(auth)
    .WithRegion(ModerationRegion.ValueOf("xxx"))//把xxx替换成服务所在的区域，例如北京
四： cn-north-4。
    .WithHttpConfig(config)
    .Build();

var req = new RunQueryDocumentModerationJobRequest
{
    JobId = "xxxx"
};

try
{
    var resp = client.RunQueryDocumentModerationJob(req);
    var respStatusCode = resp.HttpStatusCode;
    Console.WriteLine(respStatusCode);
1.1    Console.WriteLine(resp);
}
catch (RequestTimeoutException requestTimeoutException)
{
    Console.WriteLine(requestTimeoutException.ErrorMessage);
}
catch (ServiceResponseException clientRequestException)
{
    Console.WriteLine(clientRequestException.HttpStatusCode);
    Console.WriteLine(clientRequestException.RequestId);
    Console.WriteLine(clientRequestException.ErrorCode);
    Console.WriteLine(clientRequestException.ErrorMsg);
}
catch (ConnectionException connectionException)
{
    Console.WriteLine(connectionException.ErrorMessage);
}
}
}
```

## 2. 控制台输出查询文档审核作业结果。

```
200
{
  "job_id": "01693238400_cd7c8fd0a30b4c13b1fc9246c542c6",
  "status": "succeeded",
  "result": {
    "suggestion": "pass",
    "details": [
    ]
  },
  "request_params": {
    "data": {
      "url": "http://xxxx",
      "format": "pdf"
    },
    "event_type": "default"
  },
  "create_time": "2023-08-29T16:33:50.050Z",
  "update_time": "2023-08-29T16:33:50.050Z",
  "request_id": "e4eeb972aeb92f4269e8dfbb59ba7e3b"
}
```

# 9 使用 SDK (GO)

## 9.1 GO 开发环境配置

使用图像识别GO版本SDK包，需要您配置Go语言开发环境。如已经安装配置go开发环境，可跳过

1. 在[golang 官网](#) 下载并安装对应的go版本，sdk支持 go 1.14 及以上版本。
2. 下载完成后按照提示安装，位置自选，比如安装到本地D:\develop\go。
3. 配置GO环境变量：右键“计算机>属性>高级系统设置>环境变量”，进行如下操作。
  - a. 新建系统变量GOROOT，变量值为实际go安装位置。新增环境变量GOPATH，变量为go语言工程所在目录。
  - b. 修改PATH变量，末尾增加GO的编译器路径“;%GOROOT%\bin”，中间分隔符是【;】。
  - c. 修改CLASSPATH变量，末尾增加GO的编译器路径“;%GOROOT%\lib”，中间分隔符是【;】。
4. 在vs code官网：<https://code.visualstudio.com/Download>，下载安装操作系统的vs code。
5. 安装go语言的插件Go和 Go Critic。

## 9.2 GO 语言 SDK 获取和安装

1. GO语言SDK的获取和安装使用命令，参考方法如下：

```
go get -u github.com/huaweicloud/huaweicloud-sdk-go-v3
```

## 9.3 SDK 调用示例

### 9.3.1 文本审核

### 9.3.1.1 文本内容审核 (V3)

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以将TextDetectionDataReq的text配置待检测的文本信息，配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    // 密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    // HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := moderation.NewModerationClient(
        moderation.ModerationClientBuilder().
            WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域，例如北京四：cn-north-4。
            WithCredential(auth).
            Build())

    request := &model.RunTextModerationRequest{}
    databody := &model.TextDetectionDataReq{
        Text: "text",
    }
    request.Body = &model.TextDetectionReq{
        Data: databody,
        EventType: "comment",
    }
    response, err := client.RunTextModeration(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

2. 审核结果输出到控制台表示执行成功，[文本内容审核结果](#)输出到控制台。

```
RunTextModerationResponse {"request_id": "d81702cfd3599e103030c3d52d6f955f", "result": {"suggestion": "pass", "label": "normal", "details": []}}
```

### 9.3.1.2 文本内容审核 (V2)

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以将TextDetectionItemsReq的Text配置待检测的文本信息，配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/model"
)
```

```
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/region"
  )

  func main() {
    // 认证的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    // 密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    // HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
      WithAk(ak).
      WithSk(sk).
      Build()

    client := moderation.NewModerationClient(
      moderation.ModerationClientBuilder().
        WithRegion(region.ValueOf("xxx")).//把xxx替换成服务所在的区域，例如北京四：cn-north-4。
        WithCredential(auth).
        Build()

    request := &model.RunTextModerationRequest{
      typeItemsTextDetectionItemsReq:= "content"
      var listItemsbody = []model.TextDetectionItemsReq{
        {
          Text: "text", //此处输入待检测文本
          Type: &typeItemsTextDetectionItemsReq,
        },
      }
      var listCategoriesbody = []string{
        "porn",
        "ad",
        "abuse",
        "contraband",
        "flood",
      }
      request.Body = &model.TextDetectionReq{
        Items: listItemsbody,
        Categories: &listCategoriesbody,
      }
      response, err := client.RunTextModeration(request)
      if err == nil {
        fmt.Printf("%+v\n", response)
      } else {
        fmt.Println(err)
      }
    }
  }
```

2. 审核结果输出到控制台表示执行成功，**文本内容审核结果**输出到控制台。  
RunTextModerationResponse {"result":{"suggestion":"block","detail":{"contraband":["亚神酸钾"],"porn":["luo聊"]}}}  
Process exiting with code: 0

## 9.3.2 图像审核

### 9.3.2.1 图像内容审核 (V3)

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。  
示例代码中可以使用Url或Image配置图像信息(代表使用url或者图像的base64)，示例中以url为例配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3"
```

```
"github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/model"
region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    // 密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    // HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        WithProjectId(projectId).
        Build()

    client := moderation.NewModerationClient(
        moderation.ModerationClientBuilder().
            WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域，例如北京四：cn-north-4。
            WithCredential(auth).
            Build())

    request := &model.CheckImageModerationRequest{}
    var listCategoriesbody = []string{
        "porn",
    }
    urlImageDetectionReq := "http://www.xxx.xxx"
    request.Body = &model.ImageDetectionReq{
        Url: &urlImageDetectionReq,
        Categories: listCategoriesbody,
        EventType: "head_image",
    }
    response, err := client.CheckImageModeration(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

2. 审核结果输出到控制台表示执行成功，[图像内容审核结果](#)输出到控制台。

```
CheckImageModerationResponse
{"request_id": "69b424920668cb15e6d25eef879a023b", "result": {"suggestion": "block", "category":
"image_text", "details": [{"suggestion": "block", "category": "image_text", "confidence": 1.0,
"qr_location": {"top_left_x": 74, "top_left_y": 66, "bottom_right_x": 151, "bottom_right_y": 142},
"qr_content": "http://xxxxxx/xxxxx", "label": "qr_code"}, {"suggestion": "block", "category":
"image_text", "confidence": 0.98779297, "label": "ad"}, {"suggestion": "block", "category":
"image_text", "confidence": 1.0, "label": "qr_code"}], "ocr_text": "xxxxxxxxx"}}
```

### 9.3.2.2 图像内容审核 (V2)

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用Url或Image配置图像信息(代表使用url或者图像的base64)，示例中以url为例配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
```

```
密文存放, 使用时解密, 确保安全;
// 本示例以ak和sk保存在环境变量中来实现身份验证为例, 运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
ak := os.Getenv("HUAWEICLOUD_SDK_AK")
sk := os.Getenv("HUAWEICLOUD_SDK_SK")

auth := basic.NewCredentialsBuilder().
    WithAk(ak).
    WithSk(sk).
    Build()

client := moderation.NewModerationClient(
    moderation.ModerationClientBuilder().
        WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域, 例如北京四: cn-north-4。
        WithCredential(auth).
        Build())

request := &model.RunImageModerationRequest{
var listCategoriesbody = []model.ImageDetectionReqCategories{
    model.ImageDetectionReqCategoriesEnum().PORN,
    model.ImageDetectionReqCategoriesEnum().TERRORISM,
    model.ImageDetectionReqCategoriesEnum().AD,
}
thresholdImageDetectionReq:= float32(0)
moderationRuleImageDetectionReq:= "default"
urlImageDetectionReq:= "https://XXX.jpg" //此处替换为公网可以访问的图片地址
request.Body = &model.ImageDetectionReq{
    Threshold: &thresholdImageDetectionReq,
    Categories: &listCategoriesbody,
    ModerationRule: &moderationRuleImageDetectionReq,
    Url: &urlImageDetectionReq,
}
}
response, err := client.RunImageModeration(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}}
```

2. 审核结果输出到控制台表示执行成功, **图像内容审核结果**输出到控制台。

```
RunImageModerationResponse {"result":{"detail":{"porn":{"confidence":0.9883,"label":"normal"},
{"confidence":0.0039,"label":"porn"},{"confidence":0.0078,"label":"sexy"},"terrorism":
[{"confidence":0.0002,"label":"terrorist"},{"confidence":0.0002,"label":"fascist"},
{"confidence":0.0001,"label":"cult"},{"confidence":0.0001,"label":"kidnap"},
{"confidence":0.0006,"label":"riot"},{"confidence":0.0001,"label":"parade"},
{"confidence":0.0002,"label":"corpse"},{"confidence":0.0001,"label":"bloody"},
{"confidence":0.0001,"label":"knife"},{"confidence":0.0001,"label":"gun"},
{"confidence":0.0002,"label":"military_weapon"},{"confidence":0,"label":"special_characters"},
{"confidence":0.9994,"label":"normal"},"ad":{"confidence":0,"label":"ad"},
{"confidence":1,"label":"normal"}],"suggestion":"pass","category_suggestions":
{"ad":"pass","porn":"pass","terrorism":"pass"}}
```

Process exiting with code: 0

### 9.3.2.3 图像内容审核 (批量) (V2)

1. 本章节对图像内容审核 (批量) AK/SK方式使用SDK进行示例说明。

示例代码中修改ImageBatchModerationReq的Urls配置待审核的图像url (仅支持url方式), 配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/region"
)
```

```
func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    // 密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    // HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := moderation.NewModerationClient(
        moderation.ModerationClientBuilder().
            WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域，例如北京四：cn-north-4。
            WithCredential(auth).
            Build())

    request := &model.RunImageBatchModerationRequest{}
    var listCategoriesbody = []model.ImageBatchModerationReqCategories{
        model.GetImageBatchModerationReqCategoriesEnum().TERRORISM,
        model.GetImageBatchModerationReqCategoriesEnum().PORN,
        model.GetImageBatchModerationReqCategoriesEnum().AD,
    }
    var listUrlsbody = []string{
        "https://XXX.jpg", //此处替换为公网可以访问的图片地址
    }
    thresholdImageBatchModerationReq:= float64(0)
    request.Body = &model.ImageBatchModerationReq{
        Threshold: &thresholdImageBatchModerationReq,
        Categories: &listCategoriesbody,
        Urls: listUrlsbody,
    }
    response, err := client.RunImageBatchModeration(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

2. 审核结果输出到控制台表示执行成功，[图像内容审核批量任务](#)提交的结果输出到控制台。

```
RunImageBatchModerationResponse {"result":[{"url":"https://sdk-obs-source-save.obs.cn-north-4.myhuaweicloud.com/terrorism.jpg","suggestion":"pass","detail":{"porn":[{"confidence":0.9883,"label":"normal"}, {"confidence":0.0039,"label":"porn"}, {"confidence":0.0078,"label":"sexy"}],"terrorism":[{"confidence":0.0002,"label":"terrorist"}, {"confidence":0.0002,"label":"fascist"}, {"confidence":0.0001,"label":"cult"}, {"confidence":0.0001,"label":"kidnap"}, {"confidence":0.0006,"label":"riot"}, {"confidence":0.0001,"label":"parade"}, {"confidence":0.0002,"label":"corpse"}, {"confidence":0.0001,"label":"bloody"}, {"confidence":0.0001,"label":"knife"}, {"confidence":0.0001,"label":"gun"}, {"confidence":0.0002,"label":"military_weapon"}, {"confidence":0,"label":"special_characters"}, {"confidence":0.9994,"label":"normal"}],"ad":[{"confidence":0,"label":"ad"}, {"confidence":1,"label":"normal"}],"category_suggestions":{"ad":"pass", "porn":"pass", "terrorism":"pass"}}]}
Process exiting with code: 0
```

### 9.3.2.4 内容审核-图像（异步批量）（V2）

#### 9.3.2.4.1 提交任务

1. 本章节对图像内容审核（异步批量）-提交任务AK/SK方式使用SDK进行示例说明。

示例代码中可以修改TaskSumbitReq的Urls配置待审核的图像url（仅支持url方式），配置完成后运行即可。



```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    // 密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    // HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := moderation.NewModerationClient(
        moderation.ModerationClientBuilder().
            WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域，例如北京四：cn-north-4。
            WithCredential(auth).
            Build())

    request := &model.RunTaskSubmitRequest{}
    var listCategoriesbody = []model.TaskSubmitReqCategories{
        model.GetTaskSubmitReqCategoriesEnum().PORN,
        model.GetTaskSubmitReqCategoriesEnum().TERRORISM,
    }
    var listUrlsbody = []string{
        "https://XXX.jpg", //此处替换为公网可以访问的图片地址
    }
    request.Body = &model.TaskSubmitReq{
        Categories: &listCategoriesbody,
        Urls: listUrlsbody,
    }
    response, err := client.RunTaskSubmit(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

2. 提交任务结果输出到控制台表示执行成功，异步批量[任务提交](#)的结果输出到控制台。

```
RunTaskSubmitResponse {"result":{"job_id":"xxx"}}
Process exiting with code: 0
```

### 9.3.2.4.2 查询任务

1. 本章节对图像内容审核异步批量-查询任务AK/SK方式使用SDK进行示例说明。示例代码中需要配置使用RunCheckResultRequest的JobId配置审核任务的id，配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/region"
)
```

```
func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    // 密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    // HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := moderation.NewModerationClient(
        moderation.ModerationClientBuilder().
            WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域，例如北京四：cn-north-4。
            WithCredential(auth).
            Build())

    request := &model.RunCheckResultRequest{
        request.JobId = "70e952b5-5fa3-4d18-9ce4-75bba7226d7c"
    }
    response, err := client.RunCheckResult(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

2. 审核结果输出到控制台表示执行成功，异步批量[查询任务](#)的结果输出到控制台。

```
RunCheckResultResponse {"result":
{"job_id":"xxx","status":"finish","create_time":"2021-08-05T03:44:37Z","update_time":"2021-08-05T03:44:37Z","items":[{"url":"https://sdk-obs-source-save.obs.cn-north-4.myhuaweicloud.com/terrorism.jpg","suggestion":"pass","detail":{"porn":{"confidence":0.9883,"label":"normal"},{"confidence":0.0039,"label":"porn"},{"confidence":0.0078,"label":"sexy"},"terrorism":[{"confidence":0.0002,"label":"terrorist"},{"confidence":0.0002,"label":"fascist"},{"confidence":0.0001,"label":"cult"},{"confidence":0.0001,"label":"kidnap"},{"confidence":0.0006,"label":"riot"},{"confidence":0.0001,"label":"parade"},{"confidence":0.0002,"label":"corpse"},{"confidence":0.0001,"label":"bloody"},{"confidence":0.0001,"label":"knife"},{"confidence":0.0001,"label":"gun"},{"confidence":0.0002,"label":"military_weapon"},{"confidence":0,"label":"special_characters"},{"confidence":0.9994,"label":"normal"}]},category_suggestions":{"porn":"pass","terrorism":"pass"}}}]
Process exiting with code: 0
```

## 9.3.3 音频审核

### 9.3.3.1 创建音频内容审核作业

1. 本章节对创建音频审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用RunCreateAudioModerationJobRequest类的withUrls配置待审核的音频url（仅支持url方式），配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    // 密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
```

```
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
ak := os.Getenv("HUAWEICLOUD_SDK_AK")
sk := os.Getenv("HUAWEICLOUD_SDK_SK")

auth := basic.NewCredentialsBuilder().
    WithAk(ak).
    WithSk(sk).
    Build()

client := moderation.NewModerationClient(
    moderation.ModerationClientBuilder().
        WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域，例如北京四：cn-north-4。
        WithCredential(auth).
        Build())

request := &model.RunCreateAudioModerationJobRequest{}
var listCategoriesbody = []model.AudioCreateRequestCategories{
    model.GetAudioCreateRequestCategoriesEnum().PORN,
}
databody := &model.AudioInputBody{
    Url: "",
}
request.Body = &model.AudioCreateRequest{
    Categories: &listCategoriesbody,
    EventType: model.GetAudioCreateRequestEventTypeEnum().DEFAULT,
    Data: databody,
}
response, err := client.RunCreateAudioModerationJob(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

2. 控制台输出创建音频内容审核提交的结果，[创建音频内容审核结果输出到控制台](#)。

```
RunCreateAudioModerationJobResponse{"request_id":"0b111ce94ec3d563a40d4e51a096d996",
"job_id": "xxx"}
```

### 9.3.3.2 查询音频内容审核作业

1. 本章节对查询音频审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunQueryAudioModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
    量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()
}
```

```
client := moderation.NewModerationClient(
    moderation.ModerationClientBuilder().
        WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域, 例如北京四: cn-north-4。
        WithCredential(auth).
        Build())

request := &model.RunQueryAudioModerationJobRequest{}
request.JobId = ""
response, err := client.RunQueryAudioModerationJob(request)
if err == nil {
    fmt.Printf("%v\n", response)
} else {
    fmt.Println(err)
}
}
```

2. 控制台输出查询音频内容审核的结果, [查询音频内容审核](#)结果输出到控制台。

```
RunQueryAudioModerationJobResponse {"job_id": "xxx", "status": "running", "request_params":
{"event_type": "default", "data": {"url": "https://***.wav"}, "categories": ["porn"]}, "create_time":
"2022-08-29T11:57:14.014Z", "update_time": "2022-08-29T11:57:14.014Z", "request_id":
"c16c9fdeb3c1b838d9cec08ada4b6b96"}
```

## 9.3.4 视频审核

### 9.3.4.1 创建视频内容审核作业

1. 本章节对创建视频审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用RunCreateVideoModerationJobRequest类的withUrls配置待审核的视频url（仅支持url方式），配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险, 建议在配置文件或者环境变量中
    密文存放, 使用时解密, 确保安全;
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例, 运行本示例前请先在本地环境中设置环境变量
    HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := moderation.NewModerationClient(
        moderation.ModerationClientBuilder().
            WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域, 例如北京四: cn-
            north-4。
            WithCredential(auth).
            Build())

    request := &model.RunCreateVideoModerationJobRequest{}
    var listAudioCategoriesbody = []model.VideoCreateRequestAudioCategories{
        model.GetVideoCreateRequestAudioCategoriesEnum().PORN,
    }
    var listImageCategoriesbody = []model.VideoCreateRequestImageCategories{
        model.GetVideoCreateRequestImageCategoriesEnum().PORN,
    }
}
```

```
}
frameIntervalData:= float32(5.5)
databody := &model.VideoCreateRequestData{
    Url: "http://xxx.xx.xxxx",
    FrameInterval: &frameIntervalData,
}
callbackVideoCreateRequest:= "http://xxx.xx.xxxx"
request.Body = &model.VideoCreateRequest{
    Callback: &callbackVideoCreateRequest,
    AudioCategories: &listAudioCategoriesbody,
    ImageCategories: listImageCategoriesbody,
    EventType: model.GetVideoCreateRequestEventTypeEnum().DEFAULT,
    Data: databody,
}
response, err := client.RunCreateVideoModerationJob(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

2. 控制台输出创建视频内容审核作业的结果，[创建视频内容审核结果输出到控制台](#)。

```
RunCreateVideoModerationJobResponse{"request_id":"dbbcb75d1a174bfa899a38be38fdd107",
"job_id": "xxx"}
```

### 9.3.4.2 查询视频内容审核作业

1. 本章节对查询视频审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunQueryVideoModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    // 密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    // HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := moderation.NewModerationClient(
        moderation.ModerationClientBuilder().
            WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域，例如北京四：cn-north-4。
            WithCredential(auth).
            Build())

    request := &model.RunQueryVideoModerationJobRequest{}
    request.JobId = "xxxx" //此处需要输入您的jobID
    response, err := client.RunQueryVideoModerationJob(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
```

```
    fmt.Println(err)
  }
}
```

2. 控制台输出查询视频内容审核作业提交的结果，[查询视频内容审核](#)结果输出到控制台。

```
RunQueryVideoModerationJobResponse
{"request_id":"xxxx","job_id":"xxx","status":"succeeded","request_params":{"data":
{"url":"xxxx","frame_interval":5,"event_type":"default","image_categories":
["porn","terrorism","image_text"],"audio_categories":
["porn","ad","moan","abuse"],"callback":"xxx"},"create_time":"2022-07-30T08:57:11.011Z","update_time":
"2022-07-30T08:57:14.014Z","result":{"suggestion":"block","image_detail":
[{"suggestion":"block","category":"porn","ocr_text":"123","time":0,"detail":
[{"confidence":0.676015138626099,"category":"porn","suggestion":"block","label":"pornography"},
{"confidence":0.666015138626099,"category":"porn","suggestion":"review","label":"sexy_female"},
{"confidence":0.666015138626099,"category":"xxx","suggestion":"block","label":"leader"},
{"confidence":0.691423773765564,"category":"xxx","suggestion":"block","face_location":
{"top_left_x":12,"top_left_y":13,"bottom_right_x":200,"bottom_right_y":240,"label":"leader"},
{"confidence":0.691423773765564,"category":"porn","suggestion":"block","face_location":
{"top_left_x":12,"top_left_y":13,"bottom_right_x":100,"bottom_right_y":2000,"label":"leader"},
{"confidence":0.891423773765564,"category":"image_text","suggestion":"block","label":"qr_code"},
{"confidence":0.891423773765564,"category":"image_text","suggestion":"block","label":"qr_code","qr_content":
"xxxxxxxxxx","qr_location":
{"top_left_x":12,"top_left_y":13,"bottom_right_x":100,"bottom_right_y":2000}},
{"confidence":0.891423773765564,"category":"image_text","suggestion":"block","label":"porn","segments":
[{"segment":"xxx"},{"segment":"xx"}]}]}],"audio_detail":
[{"suggestion":"block","label":"porn","audio_text":"xxxxx","end_time":10,"start_time":0,"detail":
[{"confidence":0.999117187582349,"label":"porn","suggestion":"block","segments":
[{"segment":"xxx"}]},{confidence":0.885117187582349,"label":"porn","suggestion":"block"}]}]}}
```

## 9.3.5 音频流审核

### 9.3.5.1 创建音频流内容审核作业

1. 本章节对创建音频流审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用AudioStreamCreateRequestData类的withUrls配置待审核的音频流url（仅支持url方式），配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    // 密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    // HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := moderation.NewModerationClient(
        moderation.ModerationClientBuilder().
            WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域，例如北京四：cn-north-4。
            WithCredential(auth).
            Build())
```

```
request := &model.RunCreateAudioStreamModerationJobRequest{}
var listCategoriesbody = []string{
    "ad",
}
databody := &model.AudioStreamCreateRequestData{
    Url: "http://xxx",
}
request.Body = &model.AudioStreamCreateRequest{
    Callback: "http://xxxxxx",
    Categories: listCategoriesbody,
    EventType: "default",
    Data: databody,
}
response, err := client.RunCreateAudioStreamModerationJob(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

2. 控制台输出创建音频流内容审核作业的结果。

```
RunCreateAudioStreamModerationJobResponse {"request_id":
"303fbd70c9813a2476bad125fa436f00", "job_id":
"11690387200_ffa1f5bb9a58451b86816gdfc654610e"}
```

### 9.3.5.2 关闭音频流内容审核作业

1. 本章节对关闭音频流审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunCloseAudioStreamModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    // 密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    // HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := moderation.NewModerationClient(
        moderation.ModerationClientBuilder().
            WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域，例如北京四：cn-north-4。
            WithCredential(auth).
            Build())

    request := &model.RunCloseAudioStreamModerationJobRequest{}
    request.JobId = "xxxxx"
    response, err := client.RunCloseAudioStreamModerationJob(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

```
}  
}
```

2. 控制台输出关闭音频流内容审核作业提交的结果。

```
RunCloseAudioStreamModerationJobResponse {"result": "success"}
```

## 9.3.6 视频流审核

### 9.3.6.1 创建视频流内容审核作业

1. 本章节对创建视频流审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用VideoStreamCreateRequestData类的withUrls配置待审核的视频流url（仅支持url方式），配置完成后运行即可。

```
package main  
  
import (  
    "fmt"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"  
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/region"  
)  
  
func main() {  
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中  
    // 密文存放，使用时解密，确保安全；  
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量  
    // HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。  
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")  
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := moderation.NewModerationClient(  
        moderation.ModerationClientBuilder().  
            WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域，例如北京四：cn-north-4。  
            WithCredential(auth).  
            Build())  
  
    request := &model.RunCreateVideoStreamModerationJobRequest{}  
    var listImageCategoriesbody = []model.VideoStreamCreateRequestImageCategories{  
        model.GetVideoStreamCreateRequestImageCategoriesEnum().POLITICS,  
    }  
    databody := &model.VideoStreamCreateRequestData{  
        Url: "http://xxx",  
    }  
    request.Body = &model.VideoStreamCreateRequest{  
        Callback: "http://xxxxxx",  
        ImageCategories: listImageCategoriesbody,  
        EventType: model.GetVideoStreamCreateRequestEventTypeEnum().DEFAULT,  
        Data: databody,  
    }  
    response, err := client.RunCreateVideoStreamModerationJob(request)  
    if err == nil {  
        fmt.Printf("%+v\n", response)  
    } else {  
        fmt.Println(err)  
    }  
}
```

2. 控制台输出创建视频流内容审核作业的结果。

```
RunCreateVideoStreamModerationJobResponse {"request_id":  
"fa520dddb6b54af51c8d1e6d19898656", "job_id":  
"01690387200_09ad14f155bb47e9bf2718ace57c73ed"}
```



### 9.3.6.2 关闭视频流内容审核作业

1. 本章节对关闭视频流审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunCloseVideoStreamModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    // 密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    // HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := moderation.NewModerationClient(
        moderation.ModerationClientBuilder().
            WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域，例如北京四：cn-north-4。
            WithCredential(auth).
            Build())

    request := &model.RunCloseVideoStreamModerationJobRequest{}
    request.JobId = "xxxxx"
    response, err := client.RunCloseVideoStreamModerationJob(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

2. 控制台输出关闭视频流内容审核作业提交的结果。

```
RunCloseVideoStreamModerationJobResponse {"result": "success"}
```

## 9.3.7 文档审核

### 9.3.7.1 创建文档内容审核作业

1. 本章节对创建文档内容审核作业AK/SK方式使用SDK进行示例说明。

示例代码中可以使用DocumentCreateRequestData类的withUrl配置待审核的文档url，配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/region"
)
```

```
func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    // 密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    // HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := moderation.NewModerationClient(
        moderation.ModerationClientBuilder().
            WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域，例如北京四：cn-north-4。
            WithCredential(auth).
            Build())

    request := &model.RunCreateDocumentModerationJobRequest{}
    databody := &model.DocumentCreateRequestData{
        Url: "http://xxx",
        Format: "pdf",
    }
    request.Body = &model.DocumentCreateRequest{
        EventType: "default",
        Data: databody,
    }
    response, err := client.RunCreateDocumentModerationJob(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## 2. 控制台输出创建文档内容审核作业的结果。

```
RunCreateDocumentModerationJobResponse {"request_id": "c083957284ce1f2c0b910115d8232ec6",
"job_id": "01690387200_e3dfb78d9f20463f98aee25e6895203a"}
```

### 9.3.7.2 查询文档审核作业结果

#### 1. 本章节对查询文档审核作业结果AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunQueryDocumentModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
    // 密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
    // HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        WithIamEndpointOverride(iamEndpoint).
        Build()
}
```

```
client := moderation.NewModerationClient(  
    moderation.ModerationClientBuilder().  
        WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域, 例如北京四: cn-north-4。  
        WithCredential(auth).  
        Build())  
  
request := &model.RunQueryDocumentModerationJobRequest{  
    request.JobId = "xxxx"  
}  
response, err := client.RunQueryDocumentModerationJob(request)  
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

## 2. 控制台输出查询文档审核作业结果。

```
RunQueryDocumentModerationJobResponse {"job_id":  
"01693238400_cd7c8fd0a30b4c13b1fcaf9246c542c6", "status": "succeeded", "result": {"suggestion":  
"pass", "details": []}, "request_params": {"data": {"url": "http://xxxx", "format": "pdf"}, "event_type":  
"default"}, "create_time": "2023-08-29T16:33:50.050Z", "update_time": "2023-08-29T16:33:50.050Z",  
"request_id": "e4eeb972aeb92f4269e8dfbb59ba7e3b"}
```

# 10 使用 SDK ( PHP )

## 10.1 PHP 开发环境配置

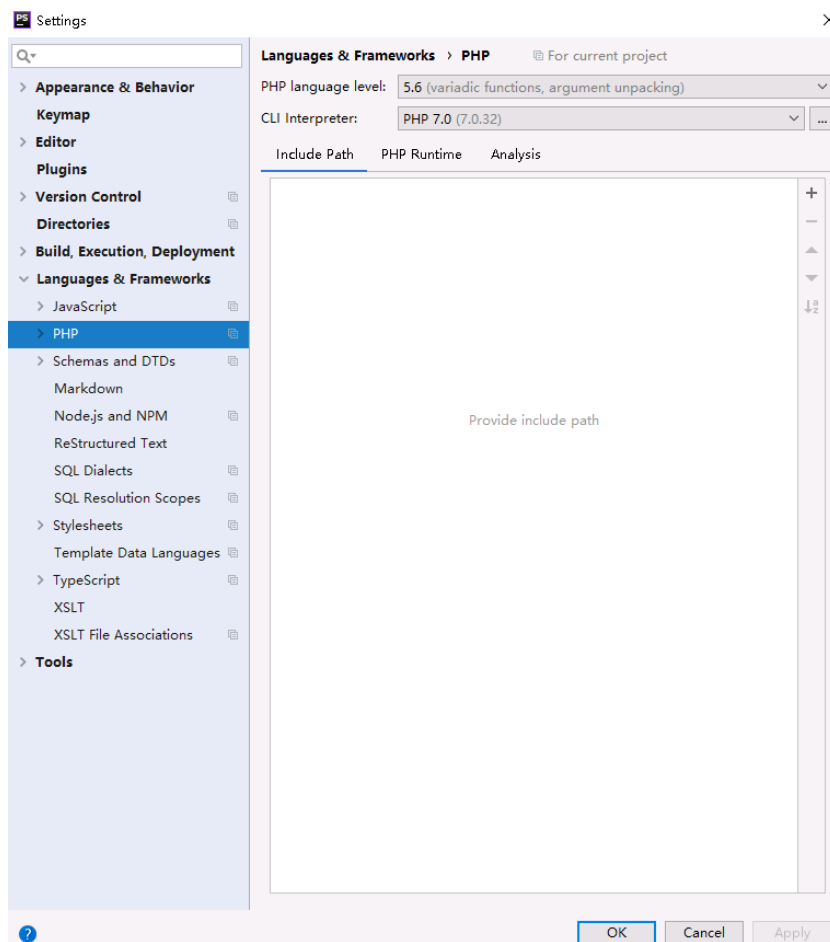
使用内容审核PHP版本SDK包，需要您配置PHP开发环境。

1. 从[PHP官网](#)下载并安装合适的PHP版本。内容审核PHP版本SDK包推荐使用php.7.x版本，如下以php 7.0.32 版本为例进行说明。

### 说明

- PHP安装目录应尽量避免中文和特殊字符。
  - windows环境下运行cmd命令**php -v**，显示找不到指定模块，需查看“php.ini”中“extension\_dir”以及“include\_path”的配置是否正确。
1. 从[PhoStorm官网](#)下载并安装最新社区版本。
  2. 在PhpStorm开发工具中配置PHP环境，在菜单依次选择“File > Settings > Languages & Frameworks > PHP”。
  3. 在页面上方选择您的PHP路径，如[图10-1](#)所示，然后单击页面下方“Apply”完成配置。

图 10-1 PhpStorm 配置 php 环境



## 10.2 PHP 环境 SDK 导入

PHP版本，内容审核服务推荐您使用 [Composer](#) 安装 SDK。Composer 是 Php 的依赖管理工具，允许您在项目中声明依赖关系并安装这些依赖：

```
// 安装 Composer  
curl -sS https://getcomposer.org/installer | php  
// 安装 PHP SDK  
composer require huaweicloud/huaweicloud-sdk-php
```

安装完毕后，您需要引入 Composer 的自动加载文件：

```
require 'path/to/vendor/autoload.php';
```

## 10.3 SDK 调用示例

### 10.3.1 文本审核

#### 10.3.1.1 文本内容审核 (V3)

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以将TextDetectionDataReq的text配置待检测的文本信息，配置完成后运行即可。

项目ID的获取请参考[获取项目ID](#)。

```
<?php
namespace HuaweiCloud\SDK\Moderation\V3\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V3\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
->withHttpConfig($config)
->withEndpoint($endpoint)
->withCredentials($credentials)
->build();
$request = new RunTextModerationRequest();

$body = new TextDetectionReq();
$databody = new TextDetectionDataReq();
$databody->setText("text"); //此处输入待检测文本
$body->setData($databody);
$body->setEventType("comment");
$request->setBody($body);
try {
    $response = $client->RunTextModeration($request);
    echo "\n";
    echo $response;
} catch (ConnectionException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
    echo "\n";
    echo $e->getStatusCode(). "\n";
    echo $e->getErrorCode() . "\n";
    echo $e->getErrorMsg() . "\n";
}
```

2. 审核结果输出到控制台表示执行成功，[文本内容审核结果](#)输出到控制台。

```
{
  "request_id":"d81702cfd3599e103030c3d52d6f955f",
  "result":{
    "suggestion":"pass",
    "label":"normal",
    "details":[
    ]
  }
}
```

### 10.3.1.2 文本内容审核 ( V2 )

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以将TextDetectionItemsReq的text配置待检测的文本信息，配置完成后运行即可。

项目ID的获取请参考[获取项目ID](#)。

```
<?php
namespace HuaweiCloud\SDK\Moderation\V2\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V2\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区
域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
->withHttpConfig($config)
->withEndpoint($endpoint)
->withCredentials($credentials)
->build();
$request = new RunTextModerationRequest();

$body = new TextDetectionReq();
$listbodyItems = array();
array_push($listbodyItems,(new TextDetectionItemsReq())
->setText("text") //此处输入待检测文本
->setType("content")
);
$listbodyCategories = array();
array_push($listbodyCategories,"porn");
array_push($listbodyCategories,"ad");
array_push($listbodyCategories,"abuse");
array_push($listbodyCategories,"contraband");
array_push($listbodyCategories,"flood");
$body->setItems($listbodyItems);
$body->setCategories($listbodyCategories);
$request->setBody($body);
try {
    $response = $client->RunTextModeration($request);
    echo "\n";
    echo $response;
} catch (ConnectionException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
    echo "\n";
    echo $e->getHttpStatusCode(). "\n";
    echo $e->getErrorCode() . "\n";
    echo $e->getErrMsg() . "\n";
}
}
```

2. 审核结果输出到控制台表示执行成功，[文本内容审核结果](#)输出到控制台。

```
{
  "result":{
    "suggestion":"block",
    "detail":{
      "contraband":[
        "亚磷酸钾"
      ],
      "porn":[
        "luo聊"
      ]
    }
  }
}
```

## 10.3.2 图像审核

### 10.3.2.1 图像内容审核 ( V3 )

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用Url或Image配置图像信息(代表使用url或者图像的base64)，示例中以url为例配置完成后运行即可。

项目ID的获取请参考[获取项目ID](#)。

```
<?php
namespace HuaweiCloud\SDK\Moderation\V3\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V3\ModerationClient;

// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区
域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
->withHttpConfig($config)
->withEndpoint($endpoint)
->withCredentials($credentials)
->build();
$request = new CheckImageModerationRequest();

$body = new ImageDetectionReq();
$listbodyCategories = array();
array_push($listbodyCategories,"porn");
$body->setUrl("http://www.xxxx.xxx");
$body->setCategories($listbodyCategories);
$body->setEventType("head_image");
$request->setBody($body);
try {
    $response = $client->CheckImageModeration($request);
    echo "\n";
}
```



```
echo $response;
} catch (ConnectionException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
    echo "\n";
    echo $e->getHttpStatusCode(). "\n";
    echo $e->getErrorCode() . "\n";
    echo $e->getErrMsg() . "\n";
}
}
```

2. 审核结果输出到控制台表示执行成功，**图像内容审核结果**输出到控制台。

```
{ "request_id": "69b424920668cb15e6d25eef879a023b", "result": { "suggestion": "block", "category": "image_text", "details": [ { "suggestion": "block", "category": "image_text", "confidence": 1.0, "qr_location": { "top_left_x": 74, "top_left_y": 66, "bottom_right_x": 151, "bottom_right_y": 142}, "qr_content": "http://xxxxxx/xxxxx", "label": "qr_code" }, { "suggestion": "block", "category": "image_text", "confidence": 0.98779297, "label": "ad" }, { "suggestion": "block", "category": "image_text", "confidence": 1.0, "label": "qr_code" } ], "ocr_text": "xxxxxxxxx" }
```

### 10.3.2.2 图像内容审核 ( V2 )

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用Url或Image配置图像信息(代表使用url或者图像的base64)，示例中以url为例配置完成后运行即可。

项目ID的获取请参考[获取项目ID](#)。

```
<?php
namespace HuaweiCloud\SDK\Moderation\V2\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V2\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
    ->withHttpConfig($config)
    ->withEndpoint($endpoint)
    ->withCredentials($credentials)
    ->build();
$request = new RunImageModerationRequest();

$body = new ImageDetectionReq();
$listbodyCategories = array();
array_push($listbodyCategories,"terrorism");
array_push($listbodyCategories,"porn");
$body->setCategories($listbodyCategories);
$body->setModerationRule("default");
$body->setUrl("https://XXX.jpg"); //此处替换为公网可以访问的图片地址
$request->setBody($body);
try {
```

```
$response = $client->RunImageModeration($request);
echo "\n";
echo $response;
} catch (ConnectionException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg . "\n";
} catch (RequestTimeoutException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg . "\n";
} catch (ServiceResponseException $e) {
    echo "\n";
    echo $e->getHttpStatusCode(). "\n";
    echo $e->getErrorCode() . "\n";
    echo $e->getErrMsg() . "\n";
}
}
```

2. 审核结果输出到控制台表示执行成功，[图像内容审核结果](#)输出到控制台。

```
{"result": {"detail": {"porn": [{"confidence": 0.9883, "label": "normal"}, {"confidence": 0.0039, "label": "porn"}, {"confidence": 0.0078, "label": "sexy"}], "terrorism": [{"confidence": 0.0002, "label": "terrorist"}, {"confidence": 0.0002, "label": "fascist"}, {"confidence": 0.0001, "label": "cult"}, {"confidence": 0.0002, "label": "kidnap"}, {"confidence": 0.0006, "label": "riot"}, {"confidence": 0.0001, "label": "parade"}, {"confidence": 0.0002, "label": "corpse"}, {"confidence": 0.0001, "label": "bloody"}, {"confidence": 0.0001, "label": "knife"}, {"confidence": 0.0001, "label": "gun"}, {"confidence": 0.0002, "label": "military_weapon"}, {"confidence": 0.0, "label": "special_characters"}, {"confidence": 0.9994, "label": "normal"}], "ad": [{"confidence": 0.0, "label": "ad"}, {"confidence": 1.0, "label": "normal"}]}, "suggestion": "pass", "category_suggestions": {"ad": "pass", "terrorism": "pass", "porn": "pass"}}
```

### 10.3.2.3 图像内容审核（批量）（V2）

1. 本章节对图像内容审核（批量）AK/SK方式使用SDK进行示例说明。

示例代码中修改ImageBatchModerationReq的Urls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

项目ID的获取请参考[获取项目ID](#)。

```
<?php
namespace HuaweiCloud\SDK\Moderation\V2\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V2\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
    ->withHttpConfig($config)
    ->withEndpoint($endpoint)
    ->withCredentials($credentials)
    ->build();
$request = new RunImageBatchModerationRequest();

$body = new ImageBatchModerationReq();
$listbodyCategories = array();
array_push($listbodyCategories,"terrorism");
```

```
array_push($listbodyCategories,"porn");
array_push($listbodyCategories,"ad");
$listbodyUrls = array();
array_push($listbodyUrls,"https://XXX.jpg"); //此处替换为公网可以访问的图片地址
$body->setThreshold(0);
$body->setCategories($listbodyCategories);
$body->setUrls($listbodyUrls);
$request->setBody($body);
try {
    $response = $client->RunImageBatchModeration($request);
    echo "\n";
    echo $response;
} catch (ConnectionException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
    echo "\n";
    echo $e->getHttpStatusCode(). "\n";
    echo $e->getErrorCode() . "\n";
    echo $e->getErrorMsg() . "\n";
}
```

2. 审核结果输出到控制台表示执行成功，[图像内容审核批量任务](#)提交的结果输出到控制台。

```
{"httpStatusCode":200,"result":{"categorySuggestions":{"terrorism":"pass","porn":"pass"},"detail":{"porn":[{"confidence":0.9883,"label":"normal"},{"confidence":0.0039,"label":"porn"}, {"confidence":0.0078,"label":"sexy"}],"terrorism":[{"confidence":2.0E-4,"label":"terrorist"}, {"confidence":2.0E-4,"label":"fascist"}, {"confidence":1.0E-4,"label":"cult"}, {"confidence":2.0E-4,"label":"kidnap"}, {"confidence":6.0E-4,"label":"riot"}, {"confidence":1.0E-4,"label":"parade"}, {"confidence":2.0E-4,"label":"corpse"}, {"confidence":1.0E-4,"label":"bloody"}, {"confidence":1.0E-4,"label":"knife"}, {"confidence":1.0E-4,"label":"gun"}, {"confidence":2.0E-4,"label":"military_weapon"}, {"confidence":0.0,"label":"special_characters"}, {"confidence":0.9994,"label":"normal"}],"suggestion":"pass","url":"https://sdk-obs-source-save.obs.cn-north-4.myhuaweicloud.com/terrorism.jpg"}}
```

### 10.3.2.4 内容审核-图像（异步批量）（V2）

#### 10.3.2.4.1 提交任务

1. 本章节对图像内容审核（异步批量）-提交任务AK/SK方式使用SDK进行示例说明。

示例代码中可以修改TaskSubmitReq的Urls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

项目ID的获取请参考[获取项目ID](#)。

```
<?php
namespace HuaweiCloud\SDK\Moderation\V2\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V2\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');
```

```
$endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
->withHttpConfig($config)
->withEndpoint($endpoint)
->withCredentials($credentials)
->build();
$request = new RunTaskSubmitRequest();

$body = new TaskSubmitReq();
$listbodyCategories = array();
array_push($listbodyCategories,"porn");
array_push($listbodyCategories,"terrorism");
$listbodyUrls = array();
array_push($listbodyUrls,"https://XXX.jpg"); //此处替换为公网可以访问的图片地址
$body->setCategories($listbodyCategories);
$body->setUrls($listbodyUrls);
$request->setBody($body);
try {
    $response = $client->RunTaskSubmit($request);
    echo "\n";
    echo $response;
} catch (ConnectionException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
    echo "\n";
    echo $e->getStatusCode(). "\n";
    echo $e->getErrorCode() . "\n";
    echo $e->getErrMsg() . "\n";
}
}
```

2. 提交任务结果输出到控制台表示执行成功，异步批量[任务提交](#)的结果输出到控制台。

```
{"httpStatusCode":200,"result":{"jobId":"7f6a5881-7774-40cf-903b-4548914b55a3"}}
```

### 10.3.2.4.2 查询任务

1. 本章节对图像内容审核异步批量-查询任务AK/SK方式使用SDK进行示例说明。示例代码中需要配置使用RunCheckResultRequest的JobId配置审核任务的id，配置完成后运行即可。

项目ID的获取请参考[获取项目ID](#)。

```
<?php
namespace HuaweiCloud\SDK\Moderation\V2\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V2\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区
```

```
域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
->withHttpConfig($config)
->withEndpoint($endpoint)
->withCredentials($credentials)
->build();
$request = new RunCheckResultRequest();
$request->setJobId("321cb5b6-3ad3-461a-b258-7ba7f530b91a");

try {
    $response = $client->RunCheckResult($request);
    echo "\n";
    echo $response;
} catch (ConnectionException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
    echo "\n";
    echo $e->getHttpStatusCode(). "\n";
    echo $e->getErrorCode() . "\n";
    echo $e->getErrMsg() . "\n";
}
}
```

2. 审核结果输出到控制台表示执行成功，异步批量[查询任务](#)的结果输出到控制台。

```
{
  "httpStatusCode":200,"result":{"createTime":"2021-08-13T03:46:30Z","items":[{"categorySuggestions":
{
  "terrorism":"pass","porn":"pass"},"detail":{"porn":[{"confidence":0.9883,"label":"normal"},
{"confidence":0.0039,"label":"porn"},{"confidence":0.0078,"label":"sexy"}],"terrorism":
[{"confidence":2.0E-4,"label":"terrorist"},{"confidence":2.0E-4,"label":"fascist"},
{"confidence":1.0E-4,"label":"cult"},{"confidence":2.0E-4,"confidence":1.0E-4},
{"confidence":1.0E-4,"label":"kidnap"},{"confidence":6.0E-4,"label":"riot"},
{"confidence":1.0E-4,"label":"parade"},{"confidence":2.0E-4,"label":"corpse"},
{"confidence":1.0E-4,"label":"bloody"},{"confidence":1.0E-4,"label":"knife"},
{"confidence":1.0E-4,"label":"gun"},{"confidence":2.0E-4,"label":"military_weapon"},
{"confidence":0.0,"label":"special_characters"},
{"confidence":0.9994,"label":"normal"}]},"suggestion":"pass","url":"https://sdk-obs-source-save.obs.cn-
north-4.myhuaweicloud.com/
terrorism.jpg"},"jobId":"7f6a5881-7774-40cf-903b-4548914b55a3","status":"finish","updateTime":"202
1-08-13T03:46:30Z"}}
```

## 10.3.3 音频审核

### 10.3.3.1 创建音频内容审核作业

1. 本章节对创建音频审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用RunCreateAudioModerationJobRequest类的withUrls配置待审核的音频url（仅支持url方式），配置完成后运行即可。

项目ID的获取请参考[获取项目ID](#)。

```
<?php
namespace HuaweiCloud\SDK\Moderation\V3\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V3\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
```

```
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
->withHttpConfig($config)
->withEndpoint($endpoint)
->withCredentials($credentials)
->build();
$request = new RunCreateAudioModerationJobRequest();

$body = new AudioCreateRequest();
$listbodyCategories = array();
array_push($listbodyCategories,"porn");
$databody = new AudioInputBody();
$databody->setUrl("https://**.wav");
$body->setCategories($listbodyCategories);
$body->setEventType("default");
$body->setData($databody);
$request->setBody($body);
try {
    $response = $client->RunCreateAudioModerationJob($request);
    echo "\n";
    echo $response;
} catch (ConnectionException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
    echo "\n";
    echo $e->getStatusCode(). "\n";
    echo $e->getErrorCode() . "\n";
    echo $e->getErrMsg() . "\n";
}
}
```

- 控制台输出创建音频内容审核提交的结果，[创建音频内容审核](#)结果输出到控制台。

```
{"request_id": "0b111ce94ec3d563a40d4e51a096d996", "job_id": "xxx"}
```

### 10.3.3.2 查询音频内容审核作业

- 本章节对查询音频审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunQueryAudioModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

项目ID的获取请参考[获取项目ID](#)。

```
<?php
namespace HuaweiCloud\SDK\Moderation\V3\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V3\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
```

```
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
->withHttpConfig($config)
->withEndpoint($endpoint)
->withCredentials($credentials)
->build();
$request = new RunQueryAudioModerationJobRequest();
$request->setJobId("01661702400_cd06d61c16a14565995fcbfb04877bd3");

try {
    $response = $client->RunQueryAudioModerationJob($request);
    echo "\n";
    echo $response;
} catch (ConnectionException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
    echo "\n";
    echo $e->getHttpStatusCode(). "\n";
    echo $e->getErrorCode() . "\n";
    echo $e->getErrorMsg() . "\n";
}
```

2. 控制台输出查询音频内容审核的结果，[查询音频内容审核](#)结果输出到控制台。

```
{
  "job_id": "xxx",
  "status": "succeeded",
  "result": {
    "suggestion": "block",
    "details": [
      {
        "start_time": 0,
        "suggestion": "block",
        "end_time": 10,
        "label": "porn",
        "audio_text": "xxx",
        "segments": [
          {
            "segment": "xxx",
            "segment": "xxx",
            "segment": "xxx"
          }
        ]
      },
      {
        "start_time": 30,
        "suggestion": "block",
        "end_time": 40,
        "label": "porn",
        "audio_text": "xxx",
        "segments": [
          {
            "segment": "xx"
          }
        ]
      }
    ],
    "audio_text": "xxxxxx",
    "request_params": {
      "event_type": "default",
      "data": {
        "url": "https://xxx.wav",
        "callback": "http://xxx",
        "categories": ["porn", "ad"],
        "create_time": "2022-06-20 11:05:29",
        "update_time": "2022-06-20 11:07:08",
        "request_id": "2419446b1fe14203f64e4018d12db3dd"
      }
    }
  }
}
```

## 10.3.4 视频审核

### 10.3.4.1 创建视频内容审核作业

1. 本章节对创建视频审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用RunCreateVideoModerationJobRequest类的withUrls配置待审核的视频url（仅支持url方式），配置完成后运行即可。

项目ID的获取请参考[获取项目ID](#)。

```
<?php
namespace HuaweiCloud\SDK\Moderation\V3\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V3\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
```

```
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$sak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
$credentials = new BasicCredentials($sak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
->withHttpConfig($config)
->withEndpoint($endpoint)
->withCredentials($credentials)
->build();
$request = new RunCreateVideoModerationJobRequest();

$body = new VideoCreateRequest();
$listbodyAudioCategories = array();
array_push($listbodyAudioCategories,"porn");
$listbodyImageCategories = array();
array_push($listbodyImageCategories,"porn");
$databody = new VideoCreateRequestData();
$databody->setUrl("http://xxx.xx.xxxx")
->setFrameInterval(5);
$body->setAudioCategories($listbodyAudioCategories);
$body->setImageCategories($listbodyImageCategories);
$body->setEventType("default");
$body->setData($databody);
$request->setBody($body);
try {
    $response = $client->RunCreateVideoModerationJob($request);
    echo "\n";
    echo $response;
} catch (ConnectionException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
    echo "\n";
    echo $e->getStatusCode(). "\n";
    echo $e->getErrorCode() . "\n";
    echo $e->getErrMsg() . "\n";
}
}
```

2. 控制台输出创建视频内容审核作业的结果，[创建视频内容审核结果输出到控制台](#)。

```
{"request_id": "dbbcb75d1a174bfa899a38be38fdd107", "job_id": "xxx"}
```

### 10.3.4.2 查询视频内容审核作业

1. 本章节对查询视频审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunQueryVideoModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

项目ID的获取请参考[获取项目ID](#)。

```
<?php
namespace HuaweiCloud\SDK\Moderation\V3\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
```



```
use HuaweiCloud\SDK\Moderation\V3\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险, 建议在配置文件或者环境变量中密
文存放, 使用时解密, 确保安全;
// 本示例以ak和sk保存在环境变量中来实现身份验证为例, 运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区
域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
->withHttpConfig($config)
->withEndpoint($endpoint)
->withCredentials($credentials)
->build();
$request = new RunQueryVideoModerationJobRequest();
$request->setJobId("xxxx"); //此处需要输入您的jobID

try {
    $response = $client->RunQueryVideoModerationJob($request);
    echo "\n";
    echo $response;
} catch (ConnectionException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
    echo "\n";
    echo $e->getHttpStatusCode(). "\n";
    echo $e->getErrorCode() . "\n";
    echo $e->getErrMsg() . "\n";
}
}
```

2. 控制台输出查询视频内容审核作业提交的结果, [查询视频内容审核](#)结果输出到控制台。

```
{ "request_id": "xxxx", "job_id": "xxx", "status": "succeeded", "request_params": { "data":
{ "url": "xxxx", "frame_interval": 5, "event_type": "default", "image_categories":
[ "porn", "terrorism", "image_text", "audio_categories":
[ "porn", "ad", "moan", "abuse", "callback": "xxx", "create_time": "2022-07-30T08:57:11.011Z", "update_tim
e": "2022-07-30T08:57:14.014Z", "result": { "suggestion": "block", "image_detail":
[ { "suggestion": "block", "category": "porn", "ocr_text": "123", "time": 0, "detail":
[ { "confidence": 0.676015138626099, "category": "porn", "suggestion": "block", "label": "pornography",
{ "confidence": 0.666015138626099, "category": "porn", "suggestion": "review", "label": "sexy_female",
{ "confidence": 0.666015138626099, "category": "xxx", "suggestion": "block", "label": "leader",
{ "confidence": 0.691423773765564, "category": "xxx", "suggestion": "block", "face_location":
{ "top_left_x": 12, "top_left_y": 13, "bottom_right_x": 200, "bottom_right_y": 240, "label": "leader",
{ "confidence": 0.691423773765564, "category": "porn", "suggestion": "block", "face_location":
{ "top_left_x": 12, "top_left_y": 13, "bottom_right_x": 100, "bottom_right_y": 2000, "label": "leader",
{ "confidence": 0.891423773765564, "category": "image_text", "suggestion": "block", "label": "qr_code",
{ "confidence": 0.891423773765564, "category": "image_text", "suggestion": "block", "label": "qr_code", "qr_c
ontent": "xxxxxxxx", "qr_location":
{ "top_left_x": 12, "top_left_y": 13, "bottom_right_x": 100, "bottom_right_y": 2000 }},
{ "confidence": 0.891423773765564, "category": "image_text", "suggestion": "block", "label": "porn", "segme
nts": { "segment": "xxx", "segment": "xx" } } } } }, "audio_detail":
[ { "suggestion": "block", "label": "porn", "audio_text": "xxxx", "end_time": 10, "start_time": 0, "detail":
[ { "confidence": 0.999117187582349, "label": "porn", "suggestion": "block", "segments":
[ { "segment": "xxx" }, { "confidence": 0.885117187582349, "label": "porn", "suggestion": "block" } ] } ] } }
```

### 10.3.5 音频流审核

### 10.3.5.1 创建音频流内容审核作业

1. 本章节对创建音频流审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用AudioStreamCreateRequestData类的withUrls配置待审核的音频流url（仅支持url方式），配置完成后运行即可。

项目ID的获取请参考[获取项目ID](#)。

```
<?php
namespace HuaweiCloud\SDK\Moderation\V3\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V3\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$sak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区
域。
$credentials = new BasicCredentials($sak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
->withHttpConfig($config)
->withEndpoint($endpoint)
->withCredentials($credentials)
->build();
$request = new RunCreateAudioStreamModerationJobRequest();

$body = new AudioStreamCreateRequest();
$listbodyCategories = array();
array_push($listbodyCategories,"ad");
$databody = new AudioStreamCreateRequestData();
$databody->setUrl("http://xxx");
$body->setCallback("http://xxxxxx");
$body->setCategories($listbodyCategories);
$body->setEventType("default");
$body->setData($databody);
$request->setBody($body);
try {
    $response = $client->RunCreateAudioStreamModerationJob($request);
    echo "\n";
    echo $response;
} catch (ConnectionException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
    echo "\n";
    echo $e->getHttpStatusCode(). "\n";
    echo $e->getRequestId(). "\n";
    echo $e->getErrorCode(). "\n";
    echo $e->getErrMsg(). "\n";
}
}
```

2. 控制台输出创建音频流内容审核作业的结果。

```
{"request_id": "303fbd70c9813a2476bad125fa436f00", "job_id":
"11690387200_ffa1f5bb9a58451b86816gdfc654610e"}
```

### 10.3.5.2 关闭音频流内容审核作业

1. 本章节对关闭音频流审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunCloseAudioStreamModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

项目ID的获取请参考[获取项目ID](#)。

```
<?php
namespace HuaweiCloud\SDK\Moderation\V3\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V3\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$sak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区
域。
$credentials = new BasicCredentials($sak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
->withHttpConfig($config)
->withEndpoint($endpoint)
->withCredentials($credentials)
->build();
$request = new RunCloseAudioStreamModerationJobRequest();
$request->setJobId("xxxx");

try {
    $response = $client->RunCloseAudioStreamModerationJob($request);
    echo "\n";
    echo $response;
} catch (ConnectionException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg . "\n";
} catch (RequestTimeoutException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg . "\n";
} catch (ServiceResponseException $e) {
    echo "\n";
    echo $e->getHttpStatusCode(). "\n";
    echo $e->getRequestId(). "\n";
    echo $e->getErrorCode(). "\n";
    echo $e->getErrMsg(). "\n";
}
```

2. 控制台输出关闭音频流内容审核作业提交的结果。

```
{"result": "success"}
```

## 10.3.6 视频流审核

### 10.3.6.1 创建视频流内容审核作业

1. 本章节对创建视频流审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用VideoStreamCreateRequestData类的withUrls配置待审核的视频流url（仅支持url方式），配置完成后运行即可。

项目ID的获取请参考[获取项目ID](#)。

```
<?php
namespace HuaweiCloud\SDK\Moderation\V3\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V3\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');

$endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
->withHttpConfig($config)
->withEndpoint($endpoint)
->withCredentials($credentials)
->build();
$request = new RunCreateVideoStreamModerationJobRequest();

$body = new VideoStreamCreateRequest();
$listbodyImageCategories = array();
array_push($listbodyImageCategories,"politics");
$databody = new VideoStreamCreateRequestData();
$databody->setUrl("http://xxx");
$body->setCallback("http://xxxxxx");
$body->setImageCategories($listbodyImageCategories);
$body->setEventType("default");
$body->setData($databody);
$request->setBody($body);
try {
    $response = $client->RunCreateVideoStreamModerationJob($request);
    echo "\n";
    echo $response;
} catch (ConnectionException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
    echo "\n";
    echo $e->getHttpStatusCode(). "\n";
    echo $e->getRequestId(). "\n";
    echo $e->getErrorCode(). "\n";
    echo $e->getErrorMsg(). "\n";
}
}
```

## 2. 控制台输出创建视频流内容审核作业的结果。

```
{ "request_id": "fa520ddd6b54af51c8d1e6d19898656", "job_id": "01690387200_09ad14f155bb47e9bf2718ace57c73ed" }
```

### 10.3.6.2 关闭视频流内容审核作业

1. 本章节对关闭视频流审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunCloseVideoStreamModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

项目ID的获取请参考[获取项目ID](#)。

```
<?php
namespace HuaweiCloud\SDK\Moderation\V3\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V3\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
    ->withHttpConfig($config)
    ->withEndpoint($endpoint)
    ->withCredentials($credentials)
    ->build();
$request = new RunCloseVideoStreamModerationJobRequest();
$request->setJobId("xxxx");

try {
    $response = $client->RunCloseVideoStreamModerationJob($request);
    echo "\n";
    echo $response;
} catch (ConnectionException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
    echo "\n";
    echo $e->getHttpStatusCode(). "\n";
    echo $e->getRequestId(). "\n";
    echo $e->getErrorCode(). "\n";
    echo $e->getErrMsg(). "\n";
}
}
```

2. 控制台输出关闭视频流内容审核作业提交的结果。

```
{
  "result": "success"
}
```

## 10.3.7 文档审核

### 10.3.7.1 创建文档内容审核作业

1. 本章节对创建文档内容审核作业AK/SK方式使用SDK进行示例说明。

示例代码中可以使用DocumentCreateRequestData类的withUrl配置待审核的文档url，配置完成后运行即可。

项目ID的获取请参考[获取项目ID](#)。

```
<?php
namespace HuaweiCloud\SDK\Moderation\V3\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V3\ModerationClient;

// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区
域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
->withHttpConfig($config)
->withEndpoint($endpoint)
->withCredentials($credentials)
->build();
$request = new RunCreateDocumentModerationJobRequest();

$body = new DocumentCreateRequest();
$databody = new DocumentCreateRequestData();
$databody->setUrl("http://xxx")
->setFormat("pdf");
$body->setEventType("default");
$body->setData($databody);
$request->setBody($body);
try {
    $response = $client->RunCreateDocumentModerationJob($request);
    echo "\n";
    echo $response;
} catch (ConnectionException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
    echo "\n";
    echo $e->getHttpStatusCode(). "\n";
    echo $e->getRequestId(). "\n";
    echo $e->getErrorCode(). "\n";
    echo $e->getErrMsg(). "\n";
}
}
```

2. 控制台输出创建文档内容审核作业的结果。

```
{"request_id": "c083957284ce1f2c0b910115d8232ec6", "job_id":
"01690387200_e3dfb78d9f20463f98aee25e6895203a"}
```

### 10.3.7.2 查询文档审核作业结果

1. 本章节对查询文档审核作业结果AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunQueryDocumentModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

项目ID的获取请参考[获取项目ID](#)。

```
<?php
namespace HuaweiCloud\SDK\Moderation\V3\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V3\ModerationClient;

// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
->withHttpConfig($config)
->withEndpoint($endpoint)
->withCredentials($credentials)
->build();
$request = new RunQueryDocumentModerationJobRequest();
$request->setJobId("xxx");

try {
    $response = $client->RunQueryDocumentModerationJob($request);
    echo "\n";
    echo $response;
} catch (ConnectionException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
    $msg = $e->getMessage();
    echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
    echo "\n";
    echo $e->getStatusCode(). "\n";
    echo $e->getRequestId(). "\n";
    echo $e->getErrorCode() . "\n";
    echo $e->getErrMsg() . "\n";
}
}
```

2. 控制台输出查询文档审核作业结果。

```
{"job_id": "01693238400_cd7c8fd0a30b4c13b1fc9246c542c6", "status": "succeeded", "result": {"suggestion": "pass", "details": []}, "request_params": {"url": "http://xxxx", "format": "pdf"}, "event_type": "default", "create_time": "2023-08-29T16:33:50.050Z", "update_time": "2023-08-29T16:33:50.050Z", "request_id": "e4eeb972aeb92f4269e8dfbb59ba7e3b"}
```

# 11 使用 SDK ( Node.js )

## 11.1 Node.js 开发环境配置

内容审核javascript版本SDK包依赖Node.js环境。

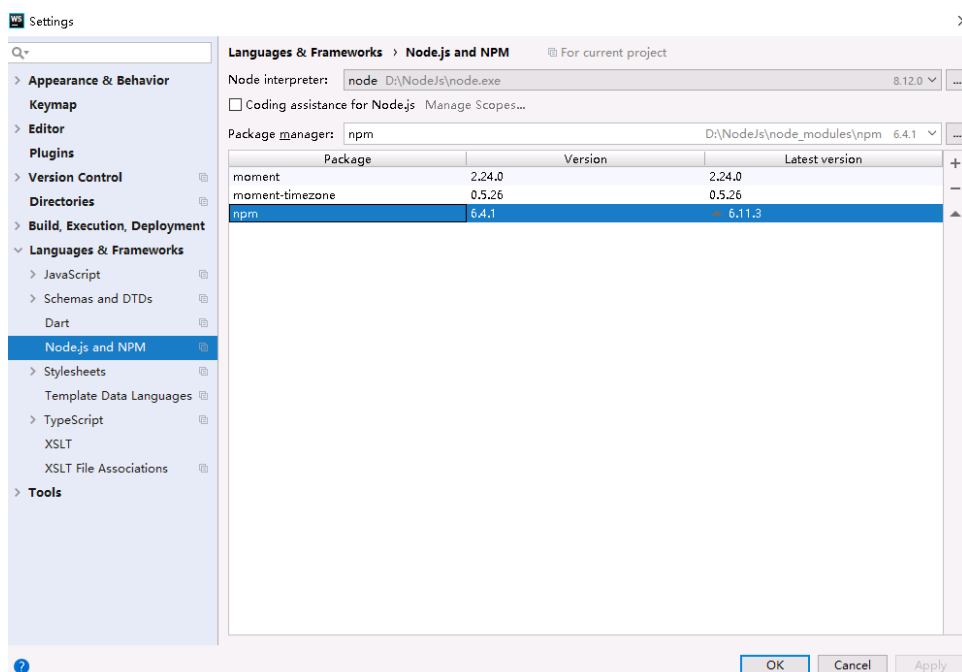
1. 从[Node.js官网](#)下载并安装推荐使用的版本。推荐使用Node.js 8.x及以上版本，如下以Node.js 8.12.0 版本为例进行说明。
2. 从[WebStorm官网](#)下载并安装WebStorm 最新版本。
3. 在WebStorm界面配置Node.js环境，在菜单依次选择“File > Settings > Languages & Frameworks > Node.js and NPM”。
4. 在页面上方选择您的“Node.js and NPM”安装路径，如[图11-1](#)所示。选择好目标“Node.js and NPM”之后单击页面下方“Apply”完成配置。

### 说明

内容审核javascript版本SDK需要依赖moment-timezone以及moment等模块，可使用npm install命令安装或单击[图11-1](#)中的“+”号通过工具类安装。



图 11-1 配置 Node.js 环境



## 11.2 Node.js 环境 SDK 导入

使用SDK前，您需要安装“@huaweicloud/huaweicloud-sdk-core”和“@huaweicloud/huaweicloud-sdk-moderation”。

推荐您使用npm安装SDK，在命令行输入以下命令：

```
npm install @huaweicloud/huaweicloud-sdk-core  
npm i @huaweicloud/huaweicloud-sdk-moderation
```

## 11.3 SDK 调用示例

### 11.3.1 文本审核

#### 11.3.1.1 文本内容审核（V3）

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以将TextDetectionDataReq的text配置待检测的文本信息，配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');  
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");  
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密  
文存放，使用时解密，确保安全；  
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量  
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。  
const ak = process.env.HUAWEICLOUD_SDK_AK;  
const sk = process.env.HUAWEICLOUD_SDK_SK;  
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;  
  
const endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在
```

```
的区域。  
const credentials = new core.BasicCredentials()  
    .withAk(ak)  
    .withSk(sk)  
    .withProjectId(project_id)  
  
const client = moderation.v3.ModerationClient.newBuilder()  
    .withCredential(credentials)  
    .withEndpoint(endpoint)  
    .build();  
const request = new moderation.v3.RunTextModerationRequest();  
const body = new moderation.v3.TextDetectionReq();  
const databody = new moderation.v3.TextDetectionDataReq();  
databody.withText("test");  
body.withData(databody);  
body.withEventType("comment");  
request.withBody(body);  
const result = client.runTextModeration(request);  
result.then(result => {  
    console.log("JSON.stringify(result)::" + JSON.stringify(result));  
}).catch(ex => {  
    console.log("exception:" + JSON.stringify(ex));  
});
```

2. 审核结果输出到控制台表示执行成功，[文本内容审核结果](#)输出到控制台。  
JSON.stringify(result)::{"request\_id": "d81702cfd3599e103030c3d52d6f955f", "result": {"suggestion": "pass", "label": "normal", "details": []}}

### 11.3.1.2 文本内容审核 ( V2 )

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以将TextDetectionItemsReq的text配置待检测的文本信息，配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');  
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");  
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密  
文存放，使用时解密，确保安全；  
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量  
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。  
const ak = process.env.HUAWEICLOUD_SDK_AK;  
const sk = process.env.HUAWEICLOUD_SDK_SK;  
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;  
  
const endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在  
的区域。  
const credentials = new core.BasicCredentials()  
    .withAk(ak)  
    .withSk(sk)  
const client = moderation.ModerationClient.newBuilder()  
    .withCredential(credentials)  
    .withEndpoint(endpoint)  
    .build();  
const request = new moderation.RunTextModerationRequest();  
const body = new moderation.TextDetectionReq();  
const listbodyItems = new Array();  
listbodyItems.push(  
    new moderation.TextDetectionItemsReq()  
        .withText("text") //此处输入待检测文本  
        .withType("content")  
);  
const listbodyCategories = new Array();  
listbodyCategories.push("ad");  
listbodyCategories.push("abuse");  
listbodyCategories.push("porn");  
listbodyCategories.push("contraband");  
listbodyCategories.push("flood");  
body.withItems(listbodyItems);
```

```
body.withCategories(listbodyCategories);
request.withBody(body);
const result = client.runTextModeration(request);
result.then(result => {
  console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
  console.log("exception:" + JSON.stringify(ex));
});
```

2. 审核结果输出到控制台表示执行成功，**文本内容审核结果**输出到控制台。  
JSON.stringify(result)::{"result": {"suggestion": "block", "detail": {"contraband": ["亚砷酸钾"], "porn": ["luo聊"]}}}

## 11.3.2 图像审核

### 11.3.2.1 图像内容审核 ( V3 )

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用Url或Image配置图像信息(代表使用url或者图像的base64)，示例中以url为例配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
const credentials = new core.BasicCredentials()
  .withAk(ak)
  .withSk(sk)
  .withProjectId(project_id)
const client = moderation.v3.ModerationClient.newBuilder()
  .withCredential(credentials)
  .withEndpoint(endpoint)
  .build();

const request = new moderation.v3.CheckImageModerationRequest();
const body = new moderation.v3.ImageDetectionReq();
const listbodyCategories = new Array();
listbodyCategories.push("porn");
body.withUrl("http://www.xxxx.xxx");
body.withCategories(listbodyCategories);
body.withEventType("head_image");
request.withBody(body);
const result = client.checkImageModeration(request);
result.then(result => {
  console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
  console.log("exception:" + JSON.stringify(ex));
});
```

2. 审核结果输出到控制台表示执行成功，**图像内容审核结果**输出到控制台。  
JSON.stringify(result)::{"request\_id": "69b424920668cb15e6d25eef879a023b", "result": {"suggestion": "block", "category": "image\_text", "details": [{"suggestion": "block", "category": "image\_text", "confidence": 1.0, "qr\_location": {"top\_left\_x": 74, "top\_left\_y": 66, "bottom\_right\_x": 151, "bottom\_right\_y": 142}, "qr\_content": "http://xxxxx/xxxxx", "label": "qr\_code"}, {"suggestion": "block", "category": "image\_text", "confidence": 0.98779297, "label": "ad"}, {"suggestion": "block", "category": "image\_text", "confidence": 1.0, "label": "qr\_code"}], "ocr\_text": "xxxxxxxxx"}}

### 11.3.2.2 图像内容审核 (V2)

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用Url或Image配置图像信息(代表使用url或者图像的base64)，示例中以url为例配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
const credentials = new core.BasicCredentials()
    .withAk(ak)
    .withSk(sk)
const client = moderation.ModerationClient.newBuilder()
    .withCredential(credentials)
    .withEndpoint(endpoint)
    .build();
const request = new moderation.RunImageModerationRequest();
const body = new moderation.ImageDetectionReq();
const listbodyCategories = new Array();
listbodyCategories.push("terrorism");
listbodyCategories.push("porn");
body.withCategories(listbodyCategories);
body.withModerationRule("default");
body.withUrl("https://XXX.jpg"); //此处替换为公网可以访问的图片地址
request.withBody(body);
const result = client.runImageModeration(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 审核结果输出到控制台表示执行成功，**图像内容审核结果**输出到控制台。

```
JSON.stringify(result)::{"result": {"detail": { "porn": [{"confidence": 0.9883, "label": "normal"}, {"confidence": 0.0039, "label": "porn"}, {"confidence": 0.0078, "label": "sexy"}], "terrorism": [{"confidence": 0.0002, "label": "terrorist"}, {"confidence": 0.0002, "label": "fascist"}, {"confidence": 0.0001, "label": "cult"}, {"confidence": 0.0002}, {"confidence": 0.0001, "label": "kidnap"}, {"confidence": 0.0006, "label": "riot"}, {"confidence": 0.0001, "label": "parade"}, {"confidence": 0.0002, "label": "corpse"}, {"confidence": 0.0001, "label": "bloody"}, {"confidence": 0.0001, "label": "knife"}, {"confidence": 0.0001, "label": "gun"}, {"confidence": 0.0002, "label": "military_weapon"}, {"confidence": 0.0, "label": "special_characters"}, {"confidence": 0.9994, "label": "normal"}], "ad": [{"confidence": 0.0, "label": "ad"}, {"confidence": 1.0, "label": "normal"}]}, "suggestion": "pass", "category_suggestions": { "ad": "pass", "terrorism": "pass", "porn": "pass"}}
```

### 11.3.2.3 图像内容审核 (批量) (V2)

1. 本章节对图像内容审核 (批量) AK/SK方式使用SDK进行示例说明。

示例代码中修改ImageBatchModerationReq的Urls配置待审核的图像url (仅支持url方式)，配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;
```

```
const endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在
的区域。
const credentials = new core.BasicCredentials()
    .withAk(ak)
    .withSk(sk)
const client = moderation.ModerationClient.newBuilder()
    .withCredential(credentials)
    .withEndpoint(endpoint)
    .build();
const request = new moderation.RunImageBatchModerationRequest();
const body = new moderation.ImageBatchModerationReq();
const listbodyCategories = new Array();
listbodyCategories.push("terrorism");
listbodyCategories.push("porn");
listbodyCategories.push("ad");
const listbodyUrls = new Array();
listbodyUrls.push("https://XXX.jpg"); //此处替换为公网可以访问的图片地址
body.withThreshold(0);
body.withCategories(listbodyCategories);
body.withUrls(listbodyUrls);
request.withBody(body);
const result = client.runImageBatchModeration(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 审核结果输出到控制台表示执行成功，[图像内容审核批量任务](#)提交的结果输出到控制台。

```
JSON.stringify(result)::{"statusCode":200,"result":{"categorySuggestions":
{"terrorism":"pass","porn":"pass"},"detail":{"porn":{"confidence":0.9883,"label":"normal"},
{"confidence":0.0039,"label":"porn"},"confidence":0.0078,"label":"sexy"},"terrorism":
[{"confidence":2.0E-4,"label":"terrorist"},{"confidence":2.0E-4,"label":"fascist"},
{"confidence":1.0E-4,"label":"cult"},{"confidence":2.0E-4,"confidence":1.0E-4,"label":"kidnap"},
{"confidence":6.0E-4,"label":"riot"},{"confidence":1.0E-4,"label":"parade"},
{"confidence":2.0E-4,"label":"corpse"},{"confidence":1.0E-4,"label":"bloody"},
{"confidence":1.0E-4,"label":"knife"},{"confidence":1.0E-4,"label":"gun"},
{"confidence":2.0E-4,"label":"military_weapon"},{"confidence":0.0,"label":"special_characters"},
{"confidence":0.9994,"label":"normal"}],"suggestion":"pass","url":"https://sdk-obs-source-save.obs.cn-
north-4.myhuaweicloud.com/terrorism.jpg"}}
```

## 11.3.2.4 内容审核-图像（异步批量）（V2）

### 11.3.2.4.1 提交任务

1. 本章节对图像内容审核（异步批量）-提交任务AK/SK方式使用SDK进行示例说明。

示例代码中可以修改TaskSubmitReq的Urls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在
的区域。
const credentials = new core.BasicCredentials()
    .withAk(ak)
    .withSk(sk)
```

```
const client = moderation.ModerationClient.newBuilder()
    .withCredential(credentials)
    .withEndpoint(endpoint)
    .build();
const request = new moderation.RunTaskSubmitRequest();
const body = new moderation.TaskSubmitReq();
const listbodyCategories = new Array();
listbodyCategories.push("porn");
listbodyCategories.push("terrorism");
const listbodyUrls = new Array();
listbodyUrls.push("https://XXX.jpg"); //此处替换为公网可以访问的图片地址
body.withCategories(listbodyCategories);
body.withUrls(listbodyUrls);
request.withBody(body);
const result = client.runTaskSubmit(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 提交任务结果输出到控制台表示执行成功，异步批量[任务提交](#)的结果输出到控制台。

```
JSON.stringify(result)::{"statusCode":200,"result":
{"jobId":"7f6a5881-7774-40cf-903b-4548914b55a3"}}
```

### 11.3.2.4.2 查询任务

1. 本章节对图像内容审核异步批量-查询任务AK/SK方式使用SDK进行示例说明。  
示例代码中需要配置使用RunCheckResultRequest的JobId配置审核任务的id，配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
const credentials = new core.BasicCredentials()
    .withAk(ak)
    .withSk(sk)
const client = moderation.ModerationClient.newBuilder()
    .withCredential(credentials)
    .withEndpoint(endpoint)
    .build();
const request = new moderation.RunCheckResultRequest();
request.jobId = "321cb5b6-3ad3-461a-b258-7ba7f530b91a";
const result = client.runCheckResult(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 审核结果输出到控制台表示执行成功，异步批量[查询任务](#)的结果输出到控制台。  
JSON.stringify(result)::{"statusCode":200,"result":{"createTime":"2021-08-13T03:46:30Z","items": [{"categorySuggestions": {"terrorism":"pass","porn":"pass"},"detail":{"porn":{"confidence":0.9883,"label":"normal"}, {"confidence":0.0039,"label":"porn"}, {"confidence":0.0078,"label":"sexy"}}, {"terrorism": {"confidence":2.0E-4,"label":"terrorist"}, {"confidence":2.0E-4,"label":"fascist"}, {"confidence":1.0E-4,"label":"cult"}, {"confidence":2.0E-4}, {"confidence":1.0E-4}, {"confidence":1.0E-4,"label":"kidnap"}, {"confidence":6.0E-4,"label":"riot"}, {"confidence":1.0E-4,"label":"parade"}, {"confidence":2.0E-4,"label":"corpse"}]}

```
{"confidence":1.0E-4,"label":"bloody"},{"confidence":1.0E-4,"label":"knife"},
{"confidence":1.0E-4,"label":"gun"},{"confidence":2.0E-4,"label":"military_weapon"},
{"confidence":0.0,"label":"special_characters"},
{"confidence":0.9994,"label":"normal"}], "suggestion":"pass", "url":"https://sdk-obs-source-save.obs.cn-north-4.myhuaweicloud.com/terrorism.jpg"}, {"jobId":"7f6a5881-7774-40cf-903b-4548914b55a3", "status":"finish", "updateTime":"2021-08-13T03:46:30Z"}}
```

## 11.3.3 音频审核

### 11.3.3.1 创建音频内容审核作业

1. 本章节对创建音频审核AK/SK方式使用SDK进行示例说明。

创建音频审核示例代码只需将AK/SK信息替换为实际AK/SK，代码中可以使用RunCreateAudioModerationJobRequest类的withUrls配置待审核的音频url（仅支持url方式），配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.cn-north-4.myhuaweicloud.com";
const credentials = new core.BasicCredentials()
    .withAk(ak)
    .withSk(sk)
    .withProjectId(project_id)

const client = moderation.v3.ModerationClient.newBuilder()
    .withCredential(credentials)
    .withEndpoint(endpoint)
    .build();

const request = new moderation.v3.RunCreateAudioModerationJobRequest();
const body = new moderation.v3.AudioCreateRequest();
const listbodyCategories = new Array();
listbodyCategories.push("porn");
const databody = new moderation.v3.AudioInputBody();
databody.withUrl("https://*.wav");
body.withCategories(listbodyCategories);
body.withEventType("default");
body.withData(databody);
request.withBody(body);
const result = client.runCreateAudioModerationJob(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 控制台输出创建音频内容审核提交的结果，[创建音频内容审核结果输出到控制台](#)。

```
JSON.stringify(result)::{"request_id": "0b111ce94ec3d563a40d4e51a096d996", "job_id": "xxx"}
```

### 11.3.3.2 查询音频内容审核作业

1. 本章节对查询音频审核AK/SK方式使用SDK进行示例说明。

查询音频审核示例代码只需将AK/SK信息替换为实际AK/SK，代码中需要配置使用RunQueryAudioModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.cn-north-4.myhuaweicloud.com";
const credentials = new core.BasicCredentials()
    .withAk(ak)
    .withSk(sk)
    .withProjectId(project_id)
const client = moderation.v3.ModerationClient.newBuilder()
    .withCredential(credentials)
    .withEndpoint(endpoint)
    .build();
const request = new moderation.v3.RunQueryAudioModerationJobRequest();
request.jobId = "xxxxxx"; //此处需要输入您的jobID
const result = client.runQueryAudioModerationJob(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

- 控制台输出查询音频内容审核的结果，[查询音频内容审核](#)结果输出到控制台。

```
JSON.stringify(result)::{"job_id":"xxx","status":"succeeded","result":{"suggestion":"block","details":
[{"start_time":0,"suggestion":"block","end_time":10,"label":"porn","audio_text":"xxxx","segments":
[{"segment":"xxx"}, {"segment":"xxx"}, {"segment":"xxx"}]},
{"start_time":30,"suggestion":"block","end_time":40,"label":"porn","audio_text":"xxxx","segments":
[{"segment":"xx"}]}, "audio_text":"xxxxxx"}, "request_params":{"event_type":"default","data":
{"url":"https://xxx.wav"},"callback":"http://xxx","categories":["porn","ad"],"create_time":"2022-06-20
11:05:29","update_time":"2022-06-20 11:07:08","request_id":"2419446b1fe14203f64e4018d12db3dd"}
```

## 11.3.4 视频审核

### 11.3.4.1 创建视频内容审核作业

- 本章节对创建视频审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用RunCreateVideoModerationJobRequest类的withUrls配置待审核的视频url（仅支持url方式），配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在
的区域。
const credentials = new core.BasicCredentials()
    .withAk(ak)
    .withSk(sk)
    .withProjectId(project_id)
const client = moderation.v3.ModerationClient.newBuilder()
    .withCredential(credentials)
    .withEndpoint(endpoint)
    .build();
const request = new moderation.v3.RunCreateVideoModerationJobRequest();
const body = new moderation.v3.VideoCreateRequest();
```



```
const listbodyAudioCategories = new Array();
listbodyAudioCategories.push("porn");
const listbodyImageCategories = new Array();
listbodyImageCategories.push("porn");
const databody = new moderation.v3.VideoCreateRequestData();
databody.withUrl("http://xxx.xx.xxxx")
    .withFrameInterval(5);
body.withAudioCategories(listbodyAudioCategories);
body.withImageCategories(listbodyImageCategories);
body.withEventType("default");
body.withData(databody);
request.withBody(body);
const result = client.runCreateVideoModerationJob(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 控制台输出创建视频内容审核作业的结果，[创建视频内容审核](#)结果输出到控制台。

```
JSON.stringify(result)::{"request_id": "dbbcb75d1a174bfa899a38be38fdd107", "job_id": "xxx"}
```

### 11.3.4.2 查询视频内容审核作业

1. 本章节对查询视频审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunQueryVideoModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
const credentials = new core.BasicCredentials()
    .withAk(ak)
    .withSk(sk);
const client = moderation.v3.ModerationClient.newBuilder()
    .withCredential(credentials)
    .withEndpoint(endpoint)
    .build();

const request = new moderation.v3.RunQueryVideoModerationJobRequest();
request.jobId = "xxxx"; //此处需要输入您的jobID
const result = client.runQueryVideoModerationJob(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 控制台输出查询视频内容审核作业提交的结果，[查询视频内容审核](#)结果输出到控制台。

```
JSON.stringify(result)::{"request_id":"xxxx","job_id":"xxx","status":"succeeded","request_params":
{"data":{"url":"xxxx","frame_interval":5},"event_type":"default","image_categories":
["porn","terrorism","image_text"],"audio_categories":
["porn","ad","moan","abuse"],"callback":"xxx"},"create_time":"2022-07-30T08:57:11.011Z","update_time":
"2022-07-30T08:57:14.014Z","result":{"suggestion":"block","image_detail":
[{"suggestion":"block","category":"porn","ocr_text":"123","time":0,"detail":
[{"confidence":0.676015138626099,"category":"porn","suggestion":"block","label":"pornography"},
{"confidence":0.666015138626099,"category":"porn","suggestion":"review","label":"sexy_female"},
{"confidence":0.666015138626099,"category":"xxx","suggestion":"block","label":"leader"}]}
```

```
  {"confidence":0.691423773765564,"category":"xxx","suggestion":"block","face_location":
  {"top_left_x":12,"top_left_y":13,"bottom_right_x":200,"bottom_right_y":240},"label":"leader"},
  {"confidence":0.691423773765564,"category":"porn","suggestion":"block","face_location":
  {"top_left_x":12,"top_left_y":13,"bottom_right_x":100,"bottom_right_y":2000},"label":"leader"},
  {"confidence":0.891423773765564,"category":"image_text","suggestion":"block","label":"qr_code"},
  {"confidence":0.891423773765564,"category":"image_text","suggestion":"block","label":"qr_code","qr_c
  ontent":"xxxxxxx","qr_location":
  {"top_left_x":12,"top_left_y":13,"bottom_right_x":100,"bottom_right_y":2000}},
  {"confidence":0.891423773765564,"category":"image_text","suggestion":"block","label":"porn","segme
  nts":[{"segment":"xxx"},{"segment":"xx"}]}], "audio_detail":
  [{"suggestion":"block","label":"porn","audio_text":"xxxxx","end_time":10,"start_time":0,"detail":
  [{"confidence":0.999117187582349,"label":"porn","suggestion":"block","segments":
  [{"segment":"xxx"}]},{"confidence":0.885117187582349,"label":"porn","suggestion":"block"}]}]}
```

## 11.3.5 音频流审核

### 11.3.5.1 创建音频流内容审核作业

1. 本章节对创建音频流审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用AudioStreamCreateRequestData类的withUrls配置待审核的音频流url（仅支持url方式），配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation/v3/public-api");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在
的区域。
const credentials = new core.BasicCredentials()
  .withAk(ak)
  .withSk(sk)
  .withProjectId(project_id)
const client = moderation.ModerationClient.newBuilder()
  .withCredential(credentials)
  .withEndpoint(endpoint)
  .build();

const request = new moderation.RunCreateAudioStreamModerationJobRequest();
const body = new moderation.v3.AudioStreamCreateRequest();
const listbodyCategories = new Array();
listbodyCategories.push("ad");
const databody = new moderation.v3.AudioStreamCreateRequestData();
databody.withUrl("http://xxx");
body.withCallback("http://xxxxxx");
body.withCategories(listbodyCategories);
body.withEventType("default");
body.withData(databody);
request.withBody(body);
const result = client.runCreateAudioStreamModerationJob(request);
result.then(result => {
  console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
  console.log("exception:" + JSON.stringify(ex));
});
```

2. 控制台输出创建音频流内容审核作业的结果。

```
JSON.stringify(result):: {"request_id": "303fbd70c9813a2476bad125fa436f00", "job_id":
"11690387200_ffa1f5bb9a58451b86816gdfc654610e"}
```

### 11.3.5.2 关闭音频流内容审核作业

1. 本章节对关闭音频流审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunCloseAudioStreamModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation/v3/public-api");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
const credentials = new core.BasicCredentials()
    .withAk(ak)
    .withSk(sk)
    .withProjectId(project_id)
const client = moderation.ModerationClient.newBuilder()
    .withCredential(credentials)
    .withEndpoint(endpoint)
    .build();
const request = new moderation.RunCloseAudioStreamModerationJobRequest();
request.jobId = "xxxxx";
const result = client.runCloseAudioStreamModerationJob(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 控制台输出关闭音频流内容审核作业提交的结果。  
JSON.stringify(result)::{"result": "success"}

## 11.3.6 视频流审核

### 11.3.6.1 创建视频流内容审核作业

1. 本章节对创建视频流审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用VideoStreamCreateRequestData类的withUrls配置待审核的视频流url（仅支持url方式），配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation/v3/public-api");

// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
const credentials = new core.BasicCredentials()
    .withAk(ak)
    .withSk(sk)
    .withProjectId(project_id)
const client = moderation.ModerationClient.newBuilder()
    .withCredential(credentials)
    .withEndpoint(endpoint)
```

```
        .build();
const request = new moderation.RunCreateVideoStreamModerationJobRequest();
const body = new moderation.VideoStreamCreateRequest();
const listbodyImageCategories = new Array();
listbodyImageCategories.push("politics");
const databody = new moderation.VideoStreamCreateRequestData();
databody.withUrl("http://xxx");
body.withCallback("http://xxxxxx");
body.withImageCategories(listbodyImageCategories);
body.withEventType("default");
body.withData(databody);
request.withBody(body);
const result = client.runCreateVideoStreamModerationJob(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 控制台输出创建视频流内容审核作业的结果。

```
JSON.stringify(result)::{"request_id": "fa520ddd6b54af51c8d1e6d19898656", "job_id": "01690387200_09ad14f155bb47e9bf2718ace57c73ed"}
```

### 11.3.6.2 关闭视频流内容审核作业

1. 本章节对关闭视频流审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunCloseVideoStreamModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation/v3/public-api");

// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
const credentials = new core.BasicCredentials()
    .withAk(ak)
    .withSk(sk)
    .withProjectId(project_id)
const client = moderation.ModerationClient.newBuilder()
    .withCredential(credentials)
    .withEndpoint(endpoint)
    .build();
const request = new moderation.RunCloseVideoStreamModerationJobRequest();
request.jobId = "xxxxx";
const result = client.runCloseVideoStreamModerationJob(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 控制台输出关闭视频流内容审核作业提交的结果。

```
JSON.stringify(result)::{"result": "success"}
```

## 11.3.7 文档审核

### 11.3.7.1 创建文档内容审核作业

1. 本章节对创建文档内容审核作业AK/SK方式使用SDK进行示例说明。

示例代码中可以使用DocumentCreateRequestData类的withUrl配置待审核的文档url，配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation/v3/public-api");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
const credentials = new core.BasicCredentials()
    .withAk(ak)
    .withSk(sk)
    .withProjectId(project_id)
const client = moderation.ModerationClient.newBuilder()
    .withCredential(credentials)
    .withEndpoint(endpoint)
    .build();
const request = new moderation.RunCreateDocumentModerationJobRequest();
const body = new moderation.DocumentCreateRequest();
const databody = new moderation.DocumentCreateRequestData();
databody.withUrl("http://xxx")
    .withFormat("pdf");
body.withEventType("default");
body.withData(databody);
request.withBody(body);
const result = client.runCreateDocumentModerationJob(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 控制台输出创建文本内容审核作业的结果。

```
JSON.stringify(result)::{"request_id": "c083957284ce1f2c0b910115d8232ec6", "job_id": "01690387200_e3dfb78d9f20463f98aee25e6895203a"}
```

### 11.3.7.2 查询文档审核作业结果

1. 本章节对查询文档审核作业结果AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunQueryDocumentModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation/v3/public-api");

// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.cn-north-4.myhuaweicloud.com"; //把cn-north-4替换成服务所在的区域。
const credentials = new core.BasicCredentials()
    .withAk(ak)
    .withSk(sk)
    .withProjectId(project_id)
```

```
const client = moderation.ModerationClient.newBuilder()
    .withCredential(credentials)
    .withEndpoint(endpoint)
    .build();
const request = new moderation.RunQueryDocumentModerationJobRequest();
request.jobId = "xxxx";
const result = client.runQueryDocumentModerationJob(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 控制台输出查询文档审核作业结果。

```
JSON.stringify(result)::{"job_id": "01693238400_cd7c8fd0a30b4c13b1fc9246c542c6", "status":
"succeeded", "result": {"suggestion": "pass", "details": []}, "request_params": {"data": {"url": "http://
xxxx", "format": "pdf", "event_type": "default"}, "create_time": "2023-08-29T16:33:50.050Z",
"update_time": "2023-08-29T16:33:50.050Z", "request_id": "e4eeb972aeb92f4269e8dfbb59ba7e3b"}
```