

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
图像内容审核（V3）	POST /v3/{project_id}/moderation/image
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}

2 申请服务

使用服务前，需先申请服务。

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。

说明

如果没有申请服务，会出现以下报错：

```
ClientRequestException {  
  httpStatusCode: 400  
  errorCode: ModelArts.4204  
  errorMsg: Request API error. The API 1c641f1e-5418-4997-a82e-f5869d4eae2 is not  
  subscribed.  
  requestId: 7f7640da09335e93290f95d0d0247a27  
}
```

3 获取认证信息

- 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	huaweicloud-sdk-java-v3	Java SDK使用指导	Java SDK视频指导
PYTHON	huaweicloud-sdk-python-v3	Python SDK使用指导	Python SDK视频指导
.NET	huaweicloud-sdk-net-v3	.Net SDK使用指导	-
GO	huaweicloud-sdk-go-v3	Go SDK使用指导	-
PHP	huaweicloud-sdk-php-v3	PHP SDK使用指导	-
Node.js	huaweicloud-sdk-nodejs-v3	Node.js SDK使用指导	-

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());
        }
    }
}
```

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。

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

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://xxxxxxxxx
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: xxxxxxxx
}
```

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());
}
}
```

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。

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

6.3.3.2 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](#)。

```
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());
        }
    }
}
```

2. 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

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](#)。

```
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.getErrMsg());
        }
    }
}
```

- 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

- 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://xxxx");
        body.withCallback("http://xxxxxx");
        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.getErrMsg());
        }
    }
}
```

2. 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

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](#)。

```
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
}
```

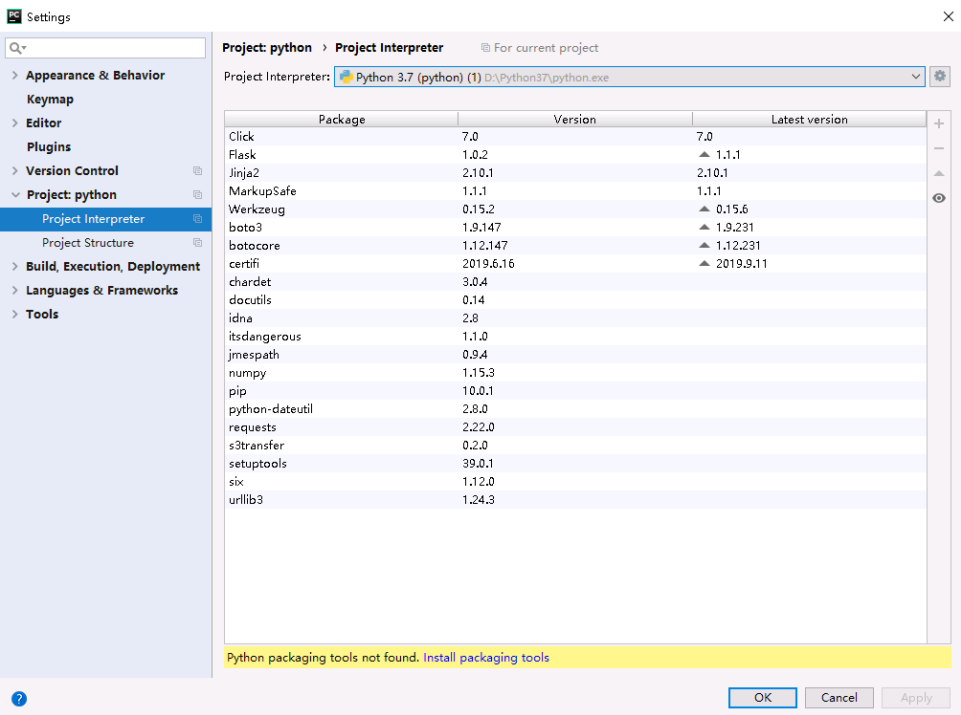
7 使用 SDK (Python)

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：

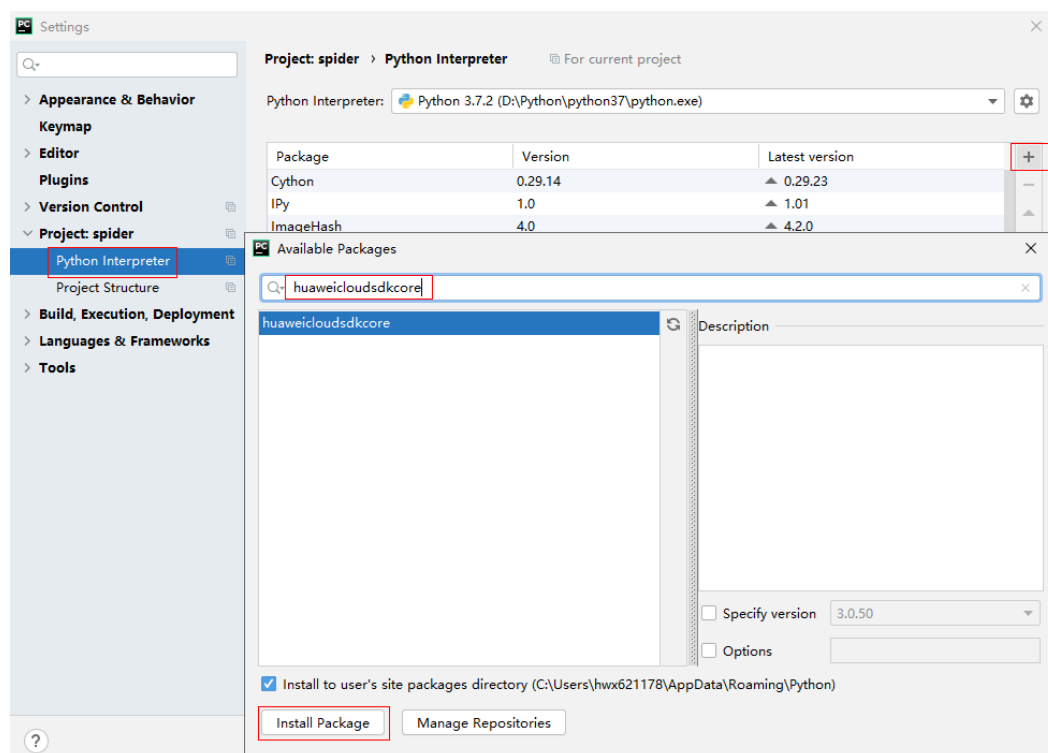
```
pip 安装：
# 安装核心库
pip install huaweicloudsdkcore

# 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")) \
        .build()
    # 把xxx替换成服务所在的区域，例如北京四：cn-north-4。
    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": []}}
```

7.3.2 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 *
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")
    projectId = "project_id"

    credentials = BasicCredentials(ak, sk, projectId) \

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

7.3.3 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")) \
    .build()
# 把xxx替换成服务所在的区域，例如北京四：cn-north-4。
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")) \
        .build()
    # 把xxx替换成服务所在的区域，例如北京四：cn-north-4。
    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":"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"}
```

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")) \
```

```
        .build()
```

```
    # 把xxx替换成服务所在的区域，例如北京四：cn-north-4。
```

```
    try:
```

```
        request = RunCreateVideoModerationJobRequest()
```

```
        listAudioCategoriesbody = [
```

```
            "porn"
```

```
        ]
```

```
        listImageCategoriesbody = [
```

```
            "porn"
```

```
        ]
```

```
        databody = VideoCreateRequestData(
```

```
            url="http://xxx.xx.xxx",
```

```
            frame_interval=5.5
```

```
        )
```

```
        request.body = VideoCreateRequest(
```

```
            callback="http://xxx.xx.xxx",
```

```
            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)
```

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"}
```

7.3.4.2 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](#)。

```
# 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")) \
        .build()
```

```
    # 把xxx替换成服务所在的区域，例如北京四：cn-north-4。
```

```
    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_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"}]}}}
```

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")) \
        .build()
```

```
    # 把xxx替换成服务所在的区域，例如北京四：cn-north-4。
```

```
    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")) \
        .build()
    # 把xxx替换成服务所在的区域，例如北京四：cn-north-4。
    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"
}
```

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

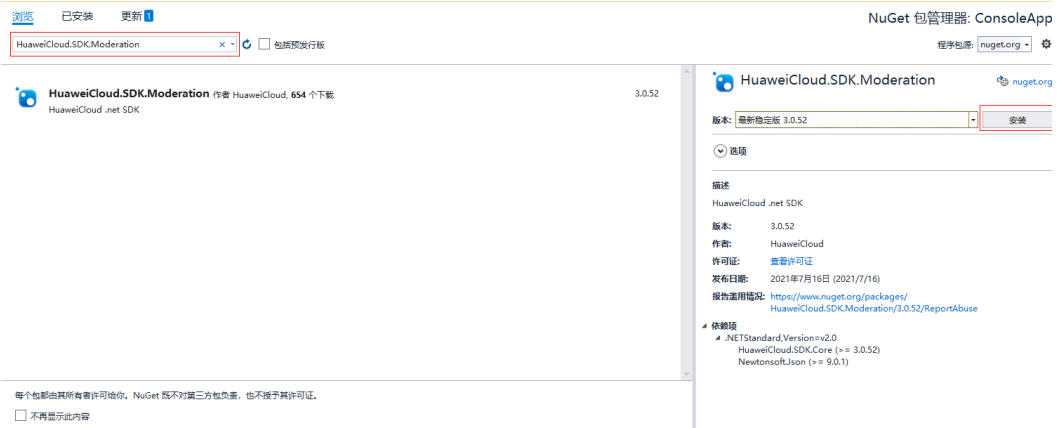
.NET语言SDK的获取和安装可以通过命令方式安装或使用**Visual Studio**开发工具安装第三方应用，参考方法如下：

```
//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应用：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.DefaultConfig();
            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": []
  }
}
```

8.3.2 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.xxx",
                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": "xxxxxxx"}  
}
```

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.DefaultConfig();  
            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.ErrorMessage);
}
catch (ConnectionException connectionException)
{
    Console.WriteLine(connectionException.ErrorMessage);
}
}
```

- 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

- 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":"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"
}
```

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.xxxx",
    FrameInterval = 5.5
};
req.Body = new VideoCreateRequest()
{
    Callback = "http://xxx.xx.xxxx",
    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);
            }
        }
    }
}
```

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。

```
200
{
  "request_id": "xxx",
  "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.DefaultConfig();  
            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 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
四：cn-north-4。
    .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.ErrorMsg);
}
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"
}
```

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/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.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": []}}
```

9.3.2 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.xxxx.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": "xxxxxxxxxx"}}
```

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.xxx",
    FrameInterval: &frameIntervalData,
}
callbackVideoCreateRequest:= "http://xxx.xx.xxx"
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":0.67015138626099,"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":"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"}]}}}
```

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"}
```

10 使用 SDK (PHP)

10.1 PHP 开发环境配置

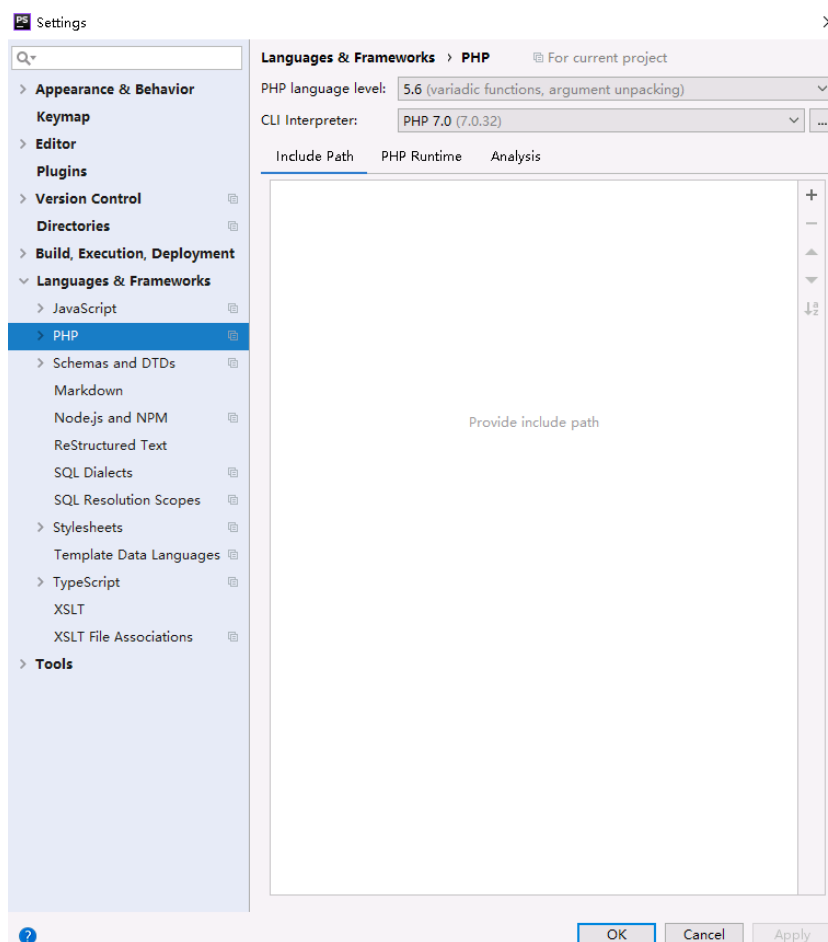
使用内容审核PHP版本SDK包，需要您配置PHP开发环境。

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，你需要引入 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->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。

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

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.xxx.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->getStatusCode(). "\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": "xxxxxxxxxx"}}
```

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->getHttpStatusCode(). "\n";  
}
```

```
echo $e->getErrorCode() . "\n";  
echo $e->getErrMsg() . "\n";  
}
```

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。

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

10.3.3.2 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。

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->getErrMsg() . "\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": "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"}
```

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。
$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 RunCreateVideoModerationJobRequest();

$body = new VideoCreateRequest();
$listbodyAudioCategories = array();
array_push($listbodyAudioCategories,"porn");
$listbodyImageCategories = array();
array_push($listbodyImageCategories,"porn");
$databody = new VideoCreateRequestData();
$databody->setUrl("http://xxx.xx.xxx")
    ->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->getHttpStatusCode(). "\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("xxx"); //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_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":
"xxxxxxxxx","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"}]}}}
```

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。
$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 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。
$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 RunCloseAudioStreamModerationJobRequest();
$request->setJobId("xxxxx");

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"}
```

11 使用 SDK (Node.js)

11.1 Node.js 开发环境配置

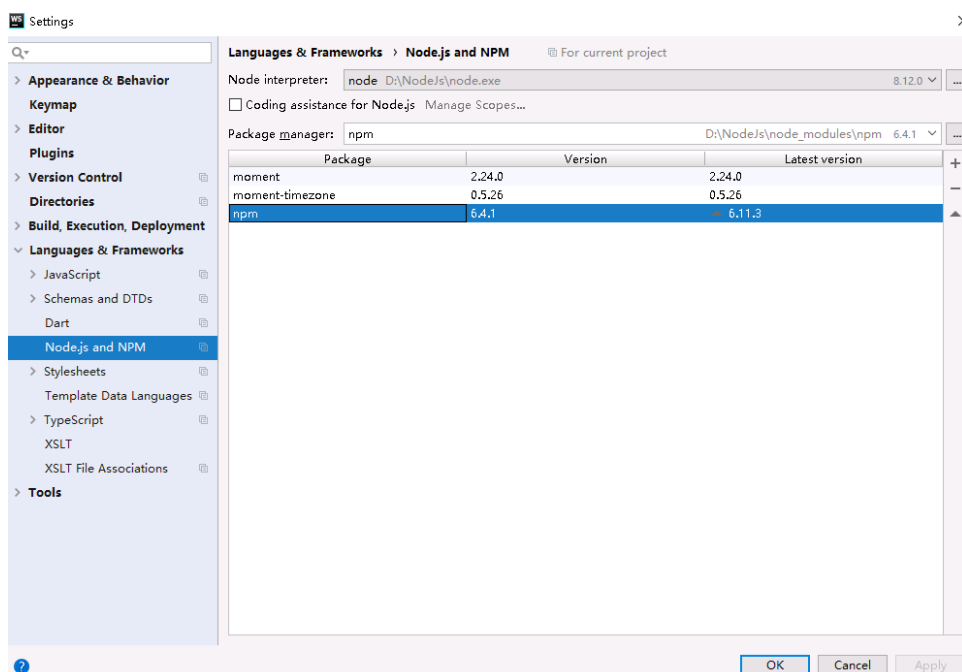
内容审核javascript版本SDK包依赖Node.js环境。

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": []}}
```

11.3.2 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://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"}}

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));
});
```

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。

```
JSON.stringify(result)::{"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"}}
```

11.3.4 视频审核

11.3.4.1 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。

```
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 = "xxxxx"; //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_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"}]},{"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"}]}}
```

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"}
```