# **Aves2Client**

Aves2Client是Aves2平台的命令行工具,支持用户进行提交、查看、删除任务等基本等任务管理功能。

### 软件包依赖

- simplejson
- requests>=2.1.8
- configobj>=5.0
- pyyaml>=3.12
- prettytable

## 安装

```
pip install aves2_client
```

## 配置

#### 获取API Token

访问Aves2, 获取API Token。http://<AVES2 HOST>/aves2/center/token/

#### 配置aves2 client

#### 获取Job定义模版

训练任务可以使用本地共享文件系统、对象存储、PVC等类型的数据。通过aves2 example命令可以获取任务模版:

```
# aves2 example hostpath
```

```
job_name: 'hostpath demo'
debug: true
distribute_type: Null # Null, HOROVOD, TF_PS
image: <镜像地址>
resource_spec:
 worker:
   count: 1
   cpu: 4
   mem: 2 # 2G
   apu: 1
running_spec:
                                     # 源代码相关配置
 source_code:
   storage_mode: HostPath
   storage_conf:
     path: <代码所在本地路径>
                                     # 用户可以设置环境变量
 envs: []
 cmd: "python3 main.py"
                                     # 启动命令
 normal_args: □
                                     # 超参数
   # - name: batch-size
       value: 64
   # - name: epochs
   # value: 10
   # - name: lr
   # value: 0.01
 input_aras:
                                     # 输入类参数
   - name: data-dir
     data_conf:
       storage_mode: HostPath
       storage_conf:
         path: <输入数据集的本地路径>
                                    # 输出类参数
 output_args:
   - name: output-dir
     data conf:
       storage_mode: HostPath
       storage_conf:
         path: <输出本地路径>
```

```
# aves2 example pvc

job_name: 'k8spvc demo' # 仅在kubernets集群中支持
debug: true
namespace: default
distribute_type: Null # Null, HOROVOD, TF_PS
image: <镜像地址>
resource_spec:
worker:
count: 1
cpu: 4
mem: 2 # 2G
gpu: 1
running_spec:
```

```
# 源代码相关配置
source_code:
 storage_mode: K8SPVC
 storage_conf:
   pvc: <PVC NAME>
   path: <代码所在的子路径>
envs: []
                                  # 用户可以设置环境变量
cmd: "python3 main.py"
                                  # 启动命令
                                  # 超参数
normal_args: []
 # - name: batch-size
 # value: 64
 # - name: epochs
 # value: 10
 # - name: lr
     value: 0.01
                                   # 输入类参数
input_args:
 - name: data-dir
   data_conf:
     storage_mode: K8SPVC
     storage_conf:
       pvc: <PVC NAME>
       path: <输入数据所在的子路径>
output_args:
                                  # 输出类参数
 - name: output-dir
   data_conf:
     storage_mode: OSSFile
     storage_conf:
       path: s3://<输出路径/
                                 # 输出将被保存到对象存储
```

```
# aves2 example ossfile
job_name: 'ossfile demo'
debug: true
distribute_type: Null # Null, HOROVOD, TF_PS
image: <镜像地址>
resource_spec:
 worker:
   count: 1
   cpu: 4
   mem: 2 # 2G
   gpu: 0
running_spec:
 source_code:
                                     # 源代码相关配置
   storage_mode: OSSFile
   storage_conf:
     path: s3://<代码路径>/demo.zip
                                     # 用户可以设置环境变量
 envs: □
 cmd: "python3 main.py"
                                     # 启动命令
 normal_args: □
   # - name: batch-size
   # value: 64
   # - name: epochs
```

```
value: 10
 # - name: lr
 # value: 0.01
                                    # 输入类参数
input_args:
 - name: data-dir
   data_conf:
     storage_mode: OSSFile
     storage_conf:
       path: s3://<输入数据集路径>/
                                   # 输出类参数
output_args:
  - name: output-dir
   data_conf:
     storage_mode: OSSFile
     storage_conf:
       path: s3://<输出路径/
```

### 提交任务

```
aves2 create -f xxx.jaml
```

#### 查看任务

```
aves2 list
-----
│ jobId │ Namespace │ job名称
                            1 创建时间
l 状态
+-----+-----
-----+
| 128 | aiplatform | pytorch mnist-HostPath | 2020-03-
20T18:09:48.770668Z | 运行成功 |
| 124 | aiplatform | pytorch mnist-HostPath | 2020-03-
20T17:31:17.836239Z | 运行失败 |
| 123 | aiplatform | pytorch mnist-HostPath | 2020-03-
20T17:25:09.654684Z | 已取消
-----+
```

#### 更多命令

createCreate aves2 jobrerunRerun aves2 joblistList aves2 jobsshowShow aves2 job infodeletedelete aves2 jobcancelcancel aves2 jobloglog aves2 job

example show aves2 job example