Transcoder REST API v1 documentation

Service endpoint

To get service endpoint ssh to the staging server and run **kubectl -n transcode svc**

EXTERNAL-IP of api-server is the service endpoint

Authentication

All https requests must use basic authentication

User: "RestApiUser"

Password: "Tr@nsc0de!"

REST Reference

Get a List of Projects

GET <a href="https://<transcoder-api-endpoint">https://<transcoder-api-endpoint/v1/projects

Request body: must be empty

Response body: if successful it contains data with the following structure

```
"data": [
    {
          "id": 5,
          "input_bucket": "p5_input_images",
          "input bucket PAR": "https://objectstorage.us-ashburn-1.oraclecloud.com/p/...../n/ocisateam/b/pl0 input images/o/",
          "name": "project10",
          "output bucket": "p5 output images",
          "output_bucket_PAR": "https://objectstorage.us-ashburn-1.oraclecloud.com/p/..../n/ocisateam/b/p10 output images/o/",
          "state": "active"
     },
          "id": 6,
          "input bucket": "p6 input images",
          "input bucket_PAR": "https://objectstorage.us-ashburn-1.oraclecloud.com/p/..../n/ocisateam/b/input images/o/",
          "name": "project11",
          "output bucket": "p6 output images",
          "output_bucket_PAR": "https://objectstorage.us-ashburn-1.oraclecloud.com/p/..../n/ocisateam/b/output images/o/",
          "state": "active"
    },
```

Get Project Details

GET <a href="https://<transcoder-api-endpoint">https://<transcoder-api-endpoint/v1/projects/<project id>

Request body must be empty

Response body: if successful it contains JSON data with the following structure GET <a href="https://<transcoder-api-endpoint>/v1/projects/5">https://<transcoder-api-endpoint>/v1/projects/5

```
"data": {
    "id": 5,
    "input_bucket": "p10_input_images",
    "input_bucket_PAR": "https://objectstorage.us-ashburn-1.oraclecloud.com/p/..../n/ocisateam/b/p10 input images/o/",
    "name": "project10",
    "output_bucket": "p10_output_images",
    "output_bucket_PAR": "https://objectstorage.us-ashburn-1.oraclecloud.com/p/..../n/ocisateam/b/p10 output_images/o/",
    "state": "active"
}
```

Get Project Configuration

GET <a href="https://<transcoder-api-endpoint>/v1/projects/<project_id>/configuration">https://<transcoder-api-endpoint>/v1/projects/ct_id>/configuration

Request body must be empty

Response body: if successful it contains JSON data with the following structure GET https://<transcoder-api-endpoint>/v1/projects/5/configuration

```
"data": {
        "TC DB HOST": "10.0.2.241",
        "TC DB NAME": "tc",
        "TC DB USER": "tc",
        "TC DST_BUCKET": "p5_output_images",
        "TC FFMPEG CONFIG": " -map v:0 -s:0 1920x1080 -b:v:0 5M -maxrate 5M -minrate 5M -bufsize 10M -map v:0
-s:1 1280x720 -b:v:1 3M -maxrate 3M -minrate 3M -bufsize 3M -map v:0 -s:2 640x360 -b:v:2 1M -maxrate 1M -
minrate 1M -bufsize 1M -map a:0 -map a:0 -map a:0 -c:a aac -b:a 128k -ac 1 -ar 44100 -g 48 -sc threshold 0 -c:v
libx264 -f hls -hls_time 5 -hls_playlist_type vod -hls_segment_filename stream_%v_%03d.ts -master_pl_name
master.m3u8 ",
        "TC FFMPEG HLS BASE URL": "",
        "TC FFMPEG STREAM MAP": "v:0,a:0 v:1,a:1 v:2,a:2",
        "TC_IMAGE_LABEL": "1.1",
        "TC IMAGE LABTC CPU REQUEST PER JOB": "1.5",
        "TC OCIR REPO": "iad.ocir.io/ocisateam/mikep",
        "TC OKE NODEPOOL": "tc-nodepool",
        "TC OS NAMESPACE": "ocisateam",
        "TC PROJECT NAME": "project5",
        "TC SRC BUCKET": "p10 input images",
        "TC_STREAM_ENDPOINT": "https://cell-1.streaming.us-ashburn-1.oci.oraclecloud.com",
        "TC_STREAM_OCID": "ocid1.stream.oc1.iad.amaaaaaxkh5s6iazz3pmitf3lx2lqumthz2a4xk3xyr7kbcyumeiz53ia3a"
    }
```

Update Project Configuration

PUT <a href="https://<transcoder-api-endpoint>/v1/projects/<project_id>/configuration">https://<transcoder-api-endpoint>/v1/projects/project_id>/configurationSee below examples of request body JSON data.

Example1: update input and output bucket names:

```
{
    "TC_SRC_BUCKET": "new_input_images",'
    "TC_DST_BUCKET": "new_output_images",
}
```

Example2: update FFMPEG transcoding parameters:

```
"TC_FFMPEG_CONFIG":" -map v:0 -s:0 1920x1080 -b:v:0 5M -maxrate 5M -minrate 5M -bufsize 10M -map
v:0 -s:1 1280x720 -b:v:1 3M -maxrate 3M -minrate 3M -bufsize 3M -map v:0 -s:2 640x360 -b:v:2 2M -
maxrate 2M -minrate 2M -bufsize 1M -map a:0 -map a:0 -map a:0 -c:a aac -b:a 128k -ac 1 -ar 44100 -g 48
-sc_threshold 0 -c:v libx264 -f hls -hls_time 5 -hls_playlist_type vod -hls_segment_filename
stream_%v_%03d.ts -master_pl_name master.m3u8 ",
    "TC_FFMPEG_STREAM_MAP":"v:0,a:0 v:1,a:1 v:2,a:2"
}
```

If successful, the response body is empty

Create Project

POST <a href="https://<transcoder-api-endpoint">https://<transcoder-api-endpoint/v1/projects See below examples of request body JSON data

```
Example1:
```

```
"TC_PROJECT_NAME":"project20",
    "TC_SRC_BUCKET":"p20_input_images",
    "TC_DST_BUCKET":"p20_output_images",
}

Example2:
{
    "TC_PROJECT_NAME":"project20",
    "TC_SRC_BUCKET":"p20_input_images",
    "TC_DST_BUCKET":"p20_input_images",
    "TC_DST_BUCKET":"p20_output_images",
    "TC_FFMPEG_CONFIG":" -map v:0 -s:0 1920x1080 -b:v:0 5M -maxrate 5M -minrate 5M -bufsize 10M -map v:0 -s:1 1280x720 -b:v:1 3M -maxrate 3M -minrate 3M -bufsize 3M -map v:0 -s:2 640x360 -b:v:2 2M -maxrate 2M -minrate 2M -bufsize 1M -map a:0 -map a:0 -c:a aac -b:a 128k -ac 1 -ar 44100 -g 48 -sc_threshold 0 -c:v libx264 -f hls -hls_time 5 -hls_playlist_type vod -hls_segment_filename stream_%v_%03d.ts -master_pl_name master.m3u8 ",
    "TC_FFMPEG_STREAM_MAP":"v:0,a:0 v:1,a:1 v:2,a:2"
```

Variables that are not set in the request body will be set to the default values.

Response body: if successful it contains JSON data of the created project in the following format:

"data": { "id": 18, "input bucket": "p21 input images", "name": "project21", "output bucket": "p21 output images", "state": "active" }

Update Project State

PUT <a href="https://<transcoder-api-endpoint">https://<transcoder-api-endpoint/v1/projects/<project id>

Request body must contain JSON with project state value.

To deactivate a project:

```
{
    "state": "inactive"
To activate a project:
    "state": "active"
```

If successful, the response body is empty

Get Project Jobs

GET https://<transcoder-api-endpoint>/v1/projects/<project id>/jobs

Request body: must be empty.

Response body: if successful it contains data with the following structure https://<transcoder-api-endpoint>/v1/projects/5/jobs

```
"data": [
   {
        "end_time": "Mon, 18 Oct 2021 22:52:31 GMT",
        "id": 3,
        "input_bucket": "p10_input_images",
        "input_file": "video1.mov",
        "output_bucket": "p10_output_images",
        "project id": 5,
        "start time": "Mon, 18 Oct 2021 22:28:53 GMT",
        "status": "COMPLETED",
        "transcoded_path": "video1.mov/master.m3u8"
   }
```

```
]
```

Get Job Details

GET https://<transcoder-api-endpoint>/v1/jobs/<job_id>

Request body: must be empty

Request response: if successful it contains data with the following structure https://<transcoder-api-endpoint>/v1/jobs/3

Get Job Details call accepts <job_id> set to the wild card: https://<transcoder-api-endpoint>/v1/jobs/*

If set it returns all jobs from all projects.

Get Project Transcoded Files

https://<transcoder-api-endpoint>/v1/project/<project_id>/objects

Request body: must be empty

Request response: if successful it contains data with the following structure <a href="https://<transcoder-api-endpoint">https://<transcoder-api-endpoint/v1/project/7/objects

```
"bucket": "output_images",
    "create_time": "Wed, 20 Oct 2021 16:04:40 GMT",
    "id": 9,
    "job_id": 17,
    "name": "video1.mov",
    "object": "video1.mov/master.m3u8",
    "thumbnail": "thumbnails/video1.mov_thumb.png",
    "url": ""
}
```

Get Project Transcoded Files call accepts project_id> set to the wild card: <a href="https://<transcoder-api-endpoint>/v1/jobs/*">https://<transcoder-api-endpoint>/v1/jobs/*

If set it returns all transcoded files from all projects.

Get Bucket Objects

GET <a href="https://<transcoder-api-endpoint">https://<transcoder-api-endpoint/v1/objects

Request body must contain JSON with project bucket name:

```
"bucket": "input images"
Request response: if successful it contains a list of objects in the bucket:
    "data": [
        {
            "bucket": "output_images",
            "create time": "Fri, 12 Nov 2021 16:08:10 GMT",
            "id": 1,
            "job id": 1,
            "name": "video1.mov",
            "object": "video1.mov/master.m3u8",
            "thumbnail": "thumbnails/video1.mov_thumb.png",
            "url": ""
        },
            "bucket": "output images",
            "create time": "Fri, 12 Nov 2021 16:08:10 GMT",
            "id": 2,
            "job id": 2,
            "name": "video2.mov",
            "object": "video2.mov/master.m3u8",
            "thumbnail": "thumbnails/video2.mov_thumb.png",
```

```
"url": ""
}
```

Get Statistics

https://<transcoder-api-endpoint>/v1/statistics

Request body: must be empty

Request response: if successful it contains statistics about COMPLETED/RUNNING/ERROR jobs and total number of transcoded files for all projects

```
"data": {
    "jobs": [
        {
            "count": 2,
            "status": "COMPLETED"
        },
        {
            "count": 1,
            "status": "RUNNING"
        },
            "count": 1,
            "status": "ERROR"
        },
   ],
    "transcoded_files": 2
}
```