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 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/p10_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 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 https://<transcoder-api-endpoint>/v1/projects/5

```json
{
    "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 https://<transcoder-api-endpoint>/v1/projects/<project_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

```json
{
    "data": {
        "TC_CDN_BASE_URL": "",
        "TC_CPU_REQUEST_PER_JOB": "1.5",
        "TC_DB_HOST": "10.0.2.26",
        "TC_DB_NAME": "tc",
        "TC_DB_USER": "tc",
        "TC_DST_BUCKET": "p10_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 -keyint_min 48 -g 48 -c:v libx264 -sc_threshold 0 -f hls -hls_time 5 -
hls_playlist_type vod -hls_segment_filename stream_%v_%03d.ts -master_pl_name master.m3u8 ",
        "TC_IMAGE_LABEL": "1.7",
        "TC_OCIR_REPO": "iad.ocir.io/ocisateam/mikep",
        "TC_OKE_NODEPOOL": "tc-nodepool",
        "TC_OS_NAMESPACE": "ocisateam",
        "TC_PROJECT_NAME": "transcode",
        "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.amaaaaaaxkh5s6iacedluloklk3bqzrod4aznuxdn2igz5lroetg2wxgy2pa"
    }
}
```

Update Project Configuration
PUT https://<transcoder-api-endpoint>/v1/projects/<project_id>/configuration
See 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
-c:v libx264 -sc_threshold 0 -f hls -hls_time 5 -hls_playlist_type vod -hls_segment_filename
stream_%v_%03d.ts -master_pl_name master.m3u8 ",
}
```

If successful, the response body is empty

Create Project
POST 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_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 -map a:0 -c:a aac -b:a 128k -ac 1 -ar 44100 -g 48
-c:v libx264 -sc_threshold 0 -f hls -hls_time 5 -hls_playlist_type vod -hls_segment_filename
stream_%v_%03d.ts -master_pl_name master.m3u8 ",
}
```

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:

```json
{

    "data": {
        "id": 18,
        "input_bucket": "p21_input_images",
        "name": "project21",
        "output_bucket": "p21_output_images",
        "state": "active"
    }
}
```

Update Project State
PUT https://<transcoder-api-endpoint>/v1/projects/<project_id>

Request body must contain JSON with project state value.

To deactivate a project:
```json
{
    "state":"inactive"
}
```
To activate a project:
```json
{
    "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

```json
{
    "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

```
{
    "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 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
https://<transcoder-api-endpoint>/v1/project/7/objects

```
{
    "data": [
        {
            "bucket": "output_images",
            "create_time": "Tue, 19 Oct 2021 15:03:46 GMT",
            "id": 7,
            "job_id": 16,
            "name": "video2.mov",
            "object": "video2.mov/master.m3u8",
            "thumbnail": "thumbnails/video2.mov_thumb.png",
            "url": ""
        },
```

```
        {
            "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:
https://<transcoder-api-endpoint>/v1/jobs/*

If set it returns all transcoded files from all projects.

Get Bucket Objects
GET 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

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
    }
}
```