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Writing Sample

This writing sample is a how-to document I wrote for Wowza Video. This represents original writing. I was the only editor for this article. I gathered the information for this article by discussing the process with a developer working on the functionality. I wrote the cURL code samples.

This article is part of a series of articles for the release of the Asset Manager coming out in April 2022. I wrote this article last week. I am the only writer documenting this new feature. I have been following the development of this feature for several months.

Upload an Asset with the Video REST API

Upload .mp4 files using the Wowza Video REST API.

Before you start

You should be familiar with the following concepts:

- **API authentication methods.** Use [HMAC authentication](#) for production environments. For testing or proof of concept purposes only, use [API key and access key authentication](#).
- **Environment variables.** We use environment variables for the API version and your API and access keys in the cURL API request examples in this topic to make it easier for you to copy, paste, and run commands in your Terminal or Command Prompt window. If you don't set environment variables for these values, you'll need to manually enter the correct values in the code samples throughout this tutorial. See [Tools for testing the API](#) for instructions.

1. Create an asset

Add assets to the Wowza Streaming Cloud Asset Manager by sending a POST request to the /assets endpoint.

Note: You can update the asset to have a description and tags once the asset has finished transcoding.

You can use the following sample request, making sure to:

- Set *name* to a descriptive name for the asset.

Sample request

```
curl -X POST \  
-H "Content-Type: application/json" \  
-H "wsc-api-key: ${WSC_API_KEY}" \  
-H "wsc-access-key: ${WSC_ACCESS_KEY}" \  
-d '{
```

```
"transcoder": {
  "name": "MyAsset"
}
}' "${WSC_HOST}/api/${WSC_VERSION}/assets"
```

Sample response

The response includes:

- An *id* for the asset that you'll use to complete other actions on the asset.
- An *upload_url* for the asset that you'll use in step 2 to upload the asset to the Wowza Video Asset Manager.

```
{
  "live_stream": {
    "created_at": "2020-01-29T17:16:21.956Z"
    "id": "abcntjvl",
    "name": "MyAsset",
    "upload_url": "https://storage.googleapis.com/qa-wse-recordings/uploads/recording_h4qntp5j/MyFile.mp4?X-Goog-Algorithm=GOOG4-RSA-SHA256&X-Goog-Credential=wcl-transcoder%40useful-figure-89722.iam.gserviceaccount.com%2F20220214%2Fauto%2Fstorage%2Fgoog4_request&X-Goog-Date=20220214T213737Z&X-Goog-Expires=300&X-Goog-SignedHeaders=content-type%3Bhost&X-Goog-Signature=994fe495425f26ba24e05233c066fdbcd0ab4c5779e1743f118141f61d353edb0eeafb463f766ca69deefb5910a7b29a8436c515f83871b0a4c5786236560bd28407ea9489458c4dc8d685d1601ac96cb71859ff8b5cff0e80a8ce43c5cf838e11b716ec9688138d96a879319b66cf73279cdba2d9a940bde73aa22d2fbb83bedaf8f477c44d65ebe4500fcdc07d4f19b3e40418fc689f48f84f5e96cf04e8f549108cb5ba7f134f8943101f0afe23dd7d38b982510696042f9dabb16cda21c02ed67dea5b752a787cb9dae1012ef772f4c2b3a959afb1fb1cf99f38fd557bedeb41b3399f2ba028b05c009424acf6055420d80f65b30235fec9e57e0bde7ef"
  }
}
```

2. Upload the asset

Upload .mp4 assets to the Wowza Video Asset Manager by sending a POST request to the /assets endpoint.

You can use the following sample request, making sure to:

- Set *upload_url* to the *upload_url* returned when you created the asset.

- Set *file_path* to the location on your computer for the file you would like to upload.

For example, **~/Downloads/MyFile.mp4**

Sample request

```
export URL="[upload_url]"
curl -X PUT -H "Content-Type: video/mp4" --upload-file [file_path] $URL
```

3. View the asset to visually confirm the asset is uploaded

Once the asset is uploaded, shorten the *upload_url* to remove the header information parameters, and open the URL to confirm the asset is loaded.

1. Shorten the *upload_url* to remove the header information parameters. You'll remove everything after **.gserviceaccount.com**.

For example:

https://storage.googleapis.com/qa-wse-recordings/uploads/recording_h4qntp5j/MyFile.mp4?X-Goog-Algorithm=GOOG4-RSA-SHA256&X-Goog-Credential=wcl-transcoder%40useful-figure-89722.iam.gserviceaccount.com

2. Paste the shortened URL into a web browser.

You should now be able to view the asset.

4. Notify the Wowza Video Asset Manager that the upload has completed

Once the upload has completed, you'll need to notify the Wowza Video Asset Manager by sending a POST request to the `/assets/{id}/upload_completed` endpoint.

You can use the following sample request, making sure to:

- Set *id* to the id of the asset returned in Step 1.

Sample request

```
curl -X POST \  
-H "Content-Type: application/json" \  
-H "wsc-api-key: ${WSC_API_KEY}" \  
-H "wsc-access-key: ${WSC_ACCESS_KEY}" \  
-d '{  
  "asset": {  
    "id": "abcntjv1"  
  }  
}' "${WSC_HOST}/api/${WSC_VERSION}/assets/{id}/upload_completed"
```

5. Check the status of your asset

Once you notify the Wowza Video Asset Manager that your upload has completed, your asset will begin transcoding. This may take several minutes. You'll need to check that the state of your asset is "complete" before you can add tags and a description to your asset. Send a PATCH request to the `/assets/{id}` endpoint to check the state of the asset.

You can use the following sample request, making sure to:

- Set *id* to the id of the asset returned in Step 1.

Sample request

```
curl -X POST \  
-H "Content-Type: application/json" \  
-H "wsc-api-key: ${WSC_API_KEY}" \  
-H "wsc-access-key: ${WSC_ACCESS_KEY}" \  
-d '{  
  "asset": {  
    "id": "abcntjv1"  
  }  
}' "${WSC_HOST}/api/${WSC_VERSION}/assets/{id}"
```

Sample response

The response includes:

- The *state* of the asset of the asset. The state can be returned as "uploading," "converting," "removing," "completed," or "failed." The state must be returned as **completed** before you can add a description and tags to your asset.

```
{
  "live_stream": {
    "average_view_time": "",
    "available_renditions": "",
    "created_at": "2020-01-29T17:16:21.956Z",
    "download_url": "",
    "description": "",
    "duration": "",
    "file_size": "",
    "id": "abcntjvl",
    "name": "MyAsset",
    "playback_enabled": "",
    "state": "completed",
    "stream_url": "",
    "tags": "",
    "thumbnail": "https://cloud.wowza.com/proxy/stats/?target=10.11.12.13&app=app-B8P6K226&stream=99b62146@130135.stream&media=json",
    "total_storage_size": "",
    "total_view_time": "",
    "transcode_progress": "",
    "unique_viewers": "",
    "updated_at": "2020-01-31T06:12:39.956Z"
  }
}
```