

GravixLayer File Management API Reference

Last Updated: September 11, 2025

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Authentication

All API requests require authentication using a Bearer token in the Authorization header:

Authorization: Bearer YOUR_API_KEY

The File Management API is OpenAI-compatible and uses the same authentication pattern as OpenAI's Files API.

File Management API

The File Management API provides OpenAI-compatible endpoints for uploading, managing, and retrieving files for use with AI models. All file operations are scoped to the authenticated user's account.

Base URL

/v1/files

File Object Structure

```
{
  "id": "file-abc123def456",
  "object": "file",
  "bytes": 120000,
  "created_at": 1694808000,
  "filename": "dataset.jsonl",
  "purpose": "fine-tune",
  "expires_after": 86400
}
```

Fields: - id (string): Unique file identifier (UUID format) - object (string): Always "file" - bytes (integer): File size in bytes - created_at (integer): Unix timestamp of creation - filename (string): Original filename - purpose (string): File purpose/category - expires_after (integer, optional): Expiration time in seconds from creation

Upload File

POST /v1/files

Upload a file for use with AI models. Files are stored securely and associated with your account.

Request Format: multipart/form-data

Form Fields: - file (required): File to upload - **Max Size:** 200MB - **Min Size:** 1 byte -

Supported Types: Any file type - purpose (required): File purpose - **Valid Values:**

assistants, batch, batch_output, fine-tune, vision, user_data, evals - expires_after (optional): Expiration time in seconds - **Type:** Positive integer - **Description:** File will be automatically deleted after this time

Example Request:

```
curl -X POST https://api.gravixlayer.com/v1/files \
  -H "Authorization: Bearer YOUR_API_KEY" \
  -F "file=@dataset.jsonl" \
  -F "purpose=fine-tune" \
  -F "expires_after=86400"
```

Success Response (200):

```
{
  "message": "file uploaded",
  "file_name": "dataset.jsonl",
  "purpose": "fine-tune"
}
```

Error Responses:

400 - Invalid Form Data:

```
{
  "error": "invalid form data"
}
```

400 - Invalid Purpose:

```
{
  "error": "invalid purpose. Supported: assistants, batch, batch_output, fine-tune, vision, user_data, evals"
}
```

400 - Invalid File Size:

```
{
  "error": "file size must be between 1 byte and 200MB"
}
```

400 - Invalid Expiration:

```
{
  "error": "expires_after must be a positive integer (seconds)"
}
```

400 - Missing File:

```
{
  "error": "file is required"
}
```

409 - File Already Exists:

```
{
  "error": "file already exists"
}
```

List Files

GET /v1/files

Retrieve a list of all active files belonging to your account, ordered by creation date (newest first).

Query Parameters: None

Example Request:

```
curl -X GET https://api.gravixlayer.com/v1/files \
  -H "Authorization: Bearer YOUR_API_KEY"
```

Success Response (200):

```
{
  "data": [
    {
      "id": "file-abc123def456",
      "object": "file",
      "bytes": 120000,
      "created_at": 1694808000,
      "filename": "dataset.jsonl",
      "purpose": "fine-tune",
      "expires_after": 86400
    },
    {
      "id": "file-def456ghi789",
      "object": "file",
      "bytes": 250000,
      "created_at": 1694807000,
      "filename": "training_data.txt",

```

```
    "purpose": "assistants"
  }
]
```

Empty Response:

```
{
  "data": []
}
```

Notes: - Expired files are automatically filtered out and marked as deleted - Only files with status “ready” are returned - Files are ordered by creation date (newest first)

Get File Metadata

GET /v1/files/:id

Retrieve metadata for a specific file by its ID.

Path Parameters: - id (required): File ID (UUID format)

Example Request:

```
curl -X GET https://api.gravixlayer.com/v1/files/file-abc123def456 \
-H "Authorization: Bearer YOUR_API_KEY"
```

Success Response (200):

```
{
  "id": "file-abc123def456",
  "object": "file",
  "bytes": 120000,
  "created_at": 1694808000,
  "filename": "dataset.jsonl",
  "purpose": "fine-tune",
  "expires_after": 86400
}
```

Error Responses:

400 - Missing File ID:

```
{
  "error": {
    "message": "file ID required"
  }
}
```

404 - File Not Found:

```
{
  "error": {
    "message": "file not found"
  }
}
```

404 - File Expired:

```
{
  "error": {
    "message": "file not found (expired)"
  }
}
```

Notes: - Files are automatically marked as deleted if they have expired - Only files belonging to your account are accessible

Get File Content

GET /v1/files/:id/content

Download the actual file content. This endpoint streams the file content directly.

Path Parameters: - id (required): File ID (UUID format)

Example Request:

```
curl -X GET https://api.gravixlayer.com/v1/files/file-abc123def456/content \
-H "Authorization: Bearer YOUR_API_KEY" \
-o downloaded_file.jsonl
```

Success Response (200): - **Content-Type:** application/octet-stream - **Content-Disposition:** attachment; filename=original_filename.ext - **Body:** Raw file content (binary stream)

Error Responses:

400 - Missing File ID:

```
{
  "error": {
    "message": "file ID required"
  }
}
```

404 - File Not Found:

```
{
  "error": {
    "message": "file not found"
  }
}
```

```
}  
}
```

500 - Storage Error:

```
{  
  "error": {  
    "message": "storage error"  
  }  
}
```

Notes: - Large files may take time to download (10-minute timeout) - File is streamed directly from storage - Original filename is preserved in Content-Disposition header

Delete File

DELETE /v1/files/:id

Delete a file permanently. This action cannot be undone.

Path Parameters: - id (required): File ID (UUID format)

Example Request:

```
curl -X DELETE https://api.gravixlayer.com/v1/files/file-abc123def456 \\\n  -H "Authorization: Bearer YOUR_API_KEY"
```

Success Response (200):

```
{  
  "message": "file deleted",  
  "file_id": "file-abc123def456",  
  "file_name": "dataset.jsonl"  
}
```

Error Responses:

400 - Missing File ID:

```
{  
  "error": "File ID is required"  
}
```

404 - File Not Found:

```
{  
  "error": "file not found"  
}
```

500 - Delete Failed:

```
{  
  "error": "delete failed"  
}
```

Notes: - File is removed from both database and storage - Only the file owner can delete files - Operation may take time for large files (10-minute timeout)

Error Handling

Error Response Format

File API errors follow a consistent format. Most errors use the nested format for OpenAI compatibility:

```
{  
  "error": {  
    "message": "Error description"  
  }  
}
```

Some endpoints use the simplified format:

```
{  
  "error": "Error description"  
}
```

Common HTTP Status Codes

- **200** - Success
- **400** - Bad Request (validation errors, missing parameters)
- **401** - Unauthorized (invalid or missing authentication)
- **404** - Not Found (file doesn't exist or expired)
- **409** - Conflict (file already exists)
- **500** - Internal Server Error (storage or database errors)

File-Specific Error Scenarios

File Size Validation

- Files must be between 1 byte and 200MB
- Empty files are rejected
- Files over 200MB are rejected

Purpose Validation

Valid purposes: assistants, batch, batch_output, fine-tune, vision, user_data, evals

Expiration Handling

- Files with expires_after set are automatically deleted when expired

- Expired files return 404 errors
- Cleanup happens during list/get operations

File Ownership

- Users can only access their own files
- Files are isolated by user account and email
- Cross-account access is not permitted

Response Formats

File Object Fields

Field	Type	Description	Required
id	string	Unique file identifier (UUID)	Yes
object	string	Always "file"	Yes
bytes	integer	File size in bytes	Yes
created_at	integer	Unix timestamp of creation	Yes
filename	string	Original filename	Yes
purpose	string	File purpose/category	Yes
expires_after	integer	Expiration time in seconds	No

Success Response Types

Upload Response

```
{
  "message": "file uploaded",
  "file_name": "filename.ext",
  "purpose": "purpose_value"
}
```

List Response

```
{
  "data": [file_object, ...]
}
```

Metadata Response

file_object

Delete Response

```
{
  "message": "file deleted",
  "file_id": "file-id",
  "file_name": "filename.ext"
}
```

File Storage Details

Storage Architecture

- Files are stored in MinIO object storage
- Each user gets a dedicated bucket based on their email
- Bucket naming: datasets-bucket-{email_prefix}
- Email prefixes are sanitized (dots and underscores become dashes)

File Lifecycle

1. **Upload:** File is stored in MinIO and metadata in database
2. **Access:** Files are served directly from MinIO storage
3. **Expiration:** Automatic cleanup based on expires_after setting
4. **Deletion:** File removed from both storage and database

Security Features

- Files are isolated by user account
 - Authentication required for all operations
 - File ownership validation on all requests
 - Automatic expiration and cleanup
-

Usage Examples

Complete File Upload Workflow

1. Upload a file

```
curl -X POST https://api.gravixlayer.com/v1/files \
  -H "Authorization: Bearer YOUR_API_KEY" \
  -F "file=@training_data.jsonl" \
  -F "purpose=fine-tune" \
  -F "expires_after=604800"
```

2. List all files

```
curl -X GET https://api.gravixlayer.com/v1/files \
  -H "Authorization: Bearer YOUR_API_KEY"
```

3. Get file metadata

```
curl -X GET https://api.gravixlayer.com/v1/files/file-abc123 \
  -H "Authorization: Bearer YOUR_API_KEY"
```

4. Download file content

```
curl -X GET https://api.gravixlayer.com/v1/files/file-abc123/content \
  -H "Authorization: Bearer YOUR_API_KEY" \
  -o downloaded_file.jsonl
```

5. Delete file

```
curl -X DELETE https://api.gravixlayer.com/v1/files/file-abc123 \
  -H "Authorization: Bearer YOUR_API_KEY"
```

JavaScript Example

```
// Upload file
const formData = new FormData();
formData.append('file', fileInput.files[0]);
formData.append('purpose', 'assistants');
formData.append('expires_after', '86400');

const response = await fetch('/v1/files', {
  method: 'POST',
  headers: {
    'Authorization': 'Bearer YOUR_API_KEY'
  },
  body: formData
});

const result = await response.json();
console.log('File uploaded:', result);
```

Python Example

```
import requests

# Upload file
files = {'file': open('dataset.jsonl', 'rb')}
data = {
    'purpose': 'fine-tune',
    'expires_after': '86400'
}
headers = {'Authorization': 'Bearer YOUR_API_KEY'}

response = requests.post(
    'https://api.gravixlayer.com/v1/files',
    files=files,
    data=data,
    headers=headers
)

print('Upload result:', response.json())
```

Notes and Limitations

1. **File Size Limits:** Maximum 200MB per file
2. **Storage Duration:** Files can be set to expire automatically
3. **Concurrency:** Multiple file operations can be performed simultaneously
4. **Timeout:** Upload/download operations have 10-minute timeouts
5. **File Types:** Any file type is supported
6. **Naming:** Original filenames are preserved
7. **Cleanup:** Expired files are automatically removed during operations

8. **Isolation:** Files are completely isolated between user accounts

This File Management API provides a robust, secure, and OpenAI-compatible interface for managing files in your AI applications.

Upload File

POST /v1/files

Upload a file for use with AI models (OpenAI-compatible).

Request Body: multipart/form-data - file (required): File to upload (max 200MB) - purpose (required): File purpose (assistants, batch, batch_output, fine-tune, vision, user_data, evals) - expires_after (optional): Expiration time in seconds

Response:

```
{
  "message": "file uploaded",
  "file_name": "dataset.jsonl",
  "purpose": "fine-tune"
}
```

List Files

GET /v1/files

Response:

```
{
  "data": [
    {
      "id": "file-abc123",
      "object": "file",
      "bytes": 120000,
      "created_at": 1694808000,
      "filename": "dataset.jsonl",
      "purpose": "fine-tune",
      "expires_after": 86400
    }
  ]
}
```

Get File Metadata

GET /v1/files/:id

Path Parameters: - id (required): File ID

Response:

```
{
  "id": "file-abc123",
```

```
"object": "file",
"bytes": 120000,
"created_at": 1694808000,
"filename": "dataset.jsonl",
"purpose": "fine-tune",
"expires_after": 86400
}
```

Get File Content

GET /v1/files/:id/content

Path Parameters: - id (required): File ID

Response: File content stream

Delete File

DELETE /v1/files/:id

Path Parameters: - id (required): File ID

Response:

```
{
  "message": "file deleted",
  "file_id": "file-abc123",
  "file_name": "dataset.jsonl"
}
```