



# File Access Manager Rest API

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## Rest API Overview

The REST API service is a service that allows external services to communicate with File Access Manager.

### Supported Protocols

- HTTP
- HTTPS

If the REST API service is installed on a server with a valid TLS certificate (see Installation guide – “Configuring File Access Manager to Use Local Certificates”), then the REST API service will bind to that certificate when starting and will use the HTTPS protocol.

### OAuth 2.0

The Client ID is automatically generated during installation (or upgrade).

You can find the client parameters in the “API Authentication” screen in the File Access Manager website.

# API Authentication Screen

This screen can be found by navigating to **Settings > General > API Authentication**.

On this screen, you can do the following:

- Check your Client ID and Client Secret
- Generate a new Client Secret

## Get Token - Sample Request

```
curl -X POST http://[HOST_FQDN]:8011/token -d "grant_type=client_credentials&scope=api&client_id=[CLIENT_ID_URL_ENCODED]&client_secret=[CLIENT_SECRET_URL_ENCODED]"
```

Note: Make sure to use the correct URL scheme (http/https) and service port. the default port is 8011.

## Get Token - Sample Response

```
{  
  "expires_in":86400.0,  
  "scope":"api", "access_token":"eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImt-  
pZCI6IjZjNTZlMDJlLWJmNTMtNDE1Mi1hZDZmLTI3ZDh-  
hYWVvZGZlNSJ9.eyJh-  
dWQiOiIs-  
ibHI1K3ZPU3N3Qk1xZkxXbzBh-  
bU9nQT09l0slm-  
lzcyl6lm-  
h0dHA6Ly9s-  
b2Nh-  
bGhvc3Q6ODAxMSIsInNjb3BlIjp-  
bImFwaSjdLCJpYXQiOiJlMzQ2NDA3MjUuMCwiZXh-  
wljoxNjc0NzI3MTI1LjB9.Qy3zG8Fj4i6aP4H4r5gLLI9DTPaXzFRrhsv3dWoAZIPvSfDT9oJzCMTPJQnz1OR4-  
CIN2lu8j482fArDwJ9WlkwuGi8aciUzvMrO6-wl90kDvKfiV60GIZFoEVjXebKnkyi1SRF_  
5l8IJ7VsHFGI91wzhPnVxLZfM8zy82tfWFyu_nXaNq1MGQY3e54KUeVo29rXoARvKGBxr-  
bvSoLmiBthUHU0INz-  
sddb7aaGy-
```

```
f9uPHLn-
inhGouhU9XPB7DVg0zMF6VF67xDMdzV9WA8i-
w5Duz7c8oSln8pHaj8mEF4AXLBdQtCwLVeOLvaeuHeoThayhZgaOPEOz5n952G8a9Tfg",
"refresh_token":"40a5d02f-7570-4659-9e59-97dfbb726ece",
"token_type":"Bearer"
}
```

Using the access\_token value can make requests to any REST endpoint using “Authorization: Bearer” in the header.

### **Sample REST endpoint request header parameter**

```
{"Authorization":"Bearer eyJ0eXAiOiJKV1QiLCJh-
bGciOiJSUzI1NiIsImt-
pZCI6IjZjNTZIMDJILWJmNTMtNDE1Mi1hZDZmLTl3ZDh-
hYWVkZGZlNSJ9.eyJh-
dWQiOiIs-
ibHI1K3ZPU3N3Qk1xZkxXbzBh-
bU9nQT09Il0slm-
Izcyl6Im-
h0dHA6Ly9s-
b2Nh-
bGhvc3Q6ODAxMSIsInNjb3BlIjp-
bImFwaSJdLCJpYXQiOiJlbnQ2NDA3MjUuMCwiZXh-
wljoxNjc0NzI3MTI1LjB9.Qy3zG8Fj4i6aP4H4r5gLLI9DTPaXzFRrhsv3dWoAZIPvSfDT9oJzCMTPJQnz1OR4-
CIN2lu8j482fArDwJ9WIkWuGi8aciUzvMrO6-wl90kDvKfiV60GIZFoEVjXebKknyi1SRF_
5I8IJ7VsHFGI91wzhPnVxLZfM8zy82tfWFyu_nXaNq1MGQY3e54KUeVo29rXoARvKGBxr-
bvSoLmiBthUHU0INz-
sddb7aaGy-
f9uPHLn-
inhGouhU9XPB7DVg0zMF6VF67xDMdzV9WA8i-
w5Duz7c8oSln8pHaj8mEF4AXLBdQtCwLVeOLvaeuHeoThayhZgaOPEOz5n952G8a9Tfg"}
```

### **Refresh Token**

The following is a sample to refresh the token:

```
curl -X POST http://[HOST_FQDN]:8011/token -d
```

```
"grant_type=refresh_token&scope=api&client_id=[CLIENT_ID_URL_ENCODED]&client_secret=[CLIENT_
SECRET_URL_ENCODED]&refresh_token=[CLIENT_REFRESH_TOKEN_URL_ENCODED]"
```

The token expiration is 24 hours by default.

The refresh token expiration is 1,440 hours (60 days) by default.

Note: This can be changed in the "SailPoint.Fam.Server.RestApiService.dll.config" file. This change will require all the REST API services to be updated and restarted.

## Endpoints - Activities

### POST /activities

#### *Endpoint Description*

The activities endpoint allows an external service to provide File Access Manager with activities for only the following Application types:

- CIFS
- NFS
- Linux
- AWS S3
- Azure Files

Note: Since these activities follow the same path as any activity in File Access Manager, they can be enriched, with DEC's and data classification information, and produce alerts as well.

#### *Sending activities request data sample:*

```
[
{
  "applicationName": "APPLICATION NAME1",
  "timestamp": "2022-12-18T10:40:58.9839062Z",
  "userName": "administrator",
  "objectName": "file_name.txt",
  "action": "Read",
  "resource": "\\host\share1\temp\folder Name",
  "userDomain": "acme",
```

```
"extraProperties": {
    "ipAddress": "1.2.3.4",
    "objectNewName": "",
    "newResource": "",
    "fileExtension": "txt",
    "objectType": "File",
    "oldName": "",
    "oldResource": ""
}
},
{
    "applicationName": " APPLICATION NAME2",
    "timestamp": "2022-12-18T13:40:58.9839062Z",
    "userName": "john_doe@acme.com",
    "objectName": "personal_details.xlsx",
    "action": "Write",
    "resource": "\\host\le$\data",
    "userDomain": "",
    "extraProperties": {
        "fileExtension": "txt",
        "objectType": "File"
    }
}
]
```

**Mandatory Fields:**

- applicationName
- timestamp (ISO 8601)
- userName
- objectName



- action
- resource

### ***Sending activities response sample***

The following is an activities response sample describing one successful activity and one failure:

```
{
  "successfulActivities": 1,
  "activityResponses": [
    {
      "activity": {
        "applicationName": "APPLICATION NAME2",
        "timestamp": "2022-12-18T13:40:58.9839062Z",
        "userName": "john_doe@acme.com",
        "objectName": "personal_details.xlsx",
        "action": "Write",
        "resource": "\\host\le$\data",
        "userDomain": "",
        "extraProperties": {
          "fileExtension": ".txt",
          "objectType": "File"
        }
      }
    },
    {
      "errorMsg": [
        "Application 'APPLICATION NAME2' not found or isn't supported. Discarding activity."
      ]
    }
  ]
}
```