

云盘对接

一、获取token

对接信息：

```
1  开放平台接口地址:https://npan.novastar.tech:6001/openapi
2  开放平台鉴权地址: https://npan.novastar.tech:6001/openoauth
3
4  client_id: c4f14972-951f-4a9f-9060-5a30131dbeac
5  client_secret: 185823b1-8d0e-4335-827e-958a4d3eba68
6  enterprise_id: 115
7  platform_id: 2
```

获取token示例代码

```
1  import com.alibaba.fastjson.JSON;
2  import com.alibaba.fastjson.JSONObject;
3  import org.apache.http.HttpEntity;
4  import org.apache.http.HttpResponse;
5  import org.apache.http.client.methods.HttpPost;
6  import org.apache.http.impl.client.DefaultHttpClient;
7  import org.apache.http.util.EntityUtils;
8  import java.util.*;
9
10 public class DemoSimple {
11
12     static String clientId = "c4f14972-951f-4a9f-9060-5a30131dbeac";
13     static String clientSecret = "185823b1-8d0e-4335-827e-958a4d3eba68";
14
15     // jwt密钥文件中的enterprise_id, 生成企业token使用
16     static long enterpriseId = 115L;
17     // jwt密钥文件中的platform_id
18     static long platformId = 2L;
19     // 用户id, 通过接口获取, 生成个人token使用, 530是超级管理员的用户id, 每个人的token的权限是不一样的
20     static long userId = 530L;
21     // 开放平台获取token地址(专有云需要修改)
22     static String oauthHost = "https://npan.novastar.tech:6001/openoauth";
23
24     public static void main(String[] args) throws Exception {
25
26         // 生成企业token
27         JSONObject accessTokenAdmin= getAccessToken(oauthHost, clientId,
28             clientSecret, enterpriseId, false);
29         System.out.println("accessTokenAdmin" +
30             JSON.toJSONString(accessTokenAdmin));
31         // 生成个人token
```

```

30         JSONObject accessTokenUser = getAccessToken(oauthHost, clientId,
31     clientSecret, userId, true);
32     System.out.println("accessTokenUser" + JSON.toJSONString(accessTokenUser));
33 }
34
35     public static JSONObject getAccessToken (String oauthUrl, String appKey, String
36     appSecret, Long id, Boolean isUser) {
37         try{
38             Map<String, String> dataMap = new HashMap<>();
39             String yifangyun_sub_type = "";
40             if (isUser) {
41                 yifangyun_sub_type = "user";
42             } else {
43                 yifangyun_sub_type = "enterprise";
44             }
45
46             dataMap.put("yifangyun_sub_type", yifangyun_sub_type); //授权对象类型
47             enterprise为企业 user为用户
48             dataMap.put("sub", String.valueOf(id)); //如果授权对象类型为企业 这里输入企
49             业id, 如果授权对象类型为user这边输入userid
50             dataMap.put("exp",
51             String.valueOf(getExpirationTimeSecondsInTheFuture(60).getTime()/1000)); //过期时间戳,
52             不能超过iat(若iat不存在则记请求到达服务器时间)60s
53             dataMap.put("iat", String.valueOf(new Date().getTime()/1000)); //当前 时
54            间
55             dataMap.put("jti", System.currentTimeMillis() +
56             UUID.randomUUID().toString()); //随机字符串
57
58
59         /**
60         * 获取token
61         * @param compactJwt jwt字符串
62         * @param oauthUrl 接口地址
63         * @param appKey client_id
64         * @param appSecret client_secret
65         * @return 返回接口token
66         */
67
68         private static JSONObject getToken(String compactJwt, String oauthUrl, String
69     appKey, String appSecret){
70             String res = "";
71             DefaultHttpClient httpclient;
72             try {

```

```

72         httpclient = new DefaultHttpClient(); //https请求 存在证书问题，通过此方
73         式信任所有证书
74
75         String url = oauthUrl + "/oauth/token?
76         grant_type=jwt_simple&assertion=" + compactJwt;
77         System.out.println(url);
78         HttpPost httppost = new HttpPost(url);
79
80         String client = appKey + ":" + appSecret; //组装client_id和
81         client_secret
82         byte[] bytes = client.getBytes();
83         String base64Client =
84         Base64.getEncoder().encodeToString(bytes); //base64加密
85         System.out.println(base64Client);
86         httppost.addHeader("Authorization", "Basic " + base64Client);
87         HttpResponse response = httpclient.execute(httppost);
88
89         HttpEntity entity = response.getEntity();
90         res = EntityUtils.toString(entity);
91         return JSONObject.parseObject(res);
92
93     }
94
95     private static Date getExpirationTimeSecondsInTheFuture(int seconds) {
96         Calendar calendar = Calendar.getInstance();
97         calendar.setTime(new Date());
98         calendar.add(Calendar.SECOND, seconds);
99         return calendar.getTime();
100    }
101 }

```

二、创建文件夹

创建文件夹

- **URL**

```
1 | https://npan.novastar.tech:6001/openapi/api/v2/folder/create
```

- **HTTP请求方法**

POST

需要使用根据用户id生成的用户级别token

- **请求参数**

参数字段	字段类型	是否必须	字段说明
name	string	是	文件夹名, 文件夹名称必须是1到222个字符, 并且不能含有/?:* "><\
parent_id	long	是	父文件夹id
department_id	long	否	部门id, parent_id传0时有效, 不填则在个人空间根目录创建, 填写则在部门空间根目录创建

- 返回字段说明

返回字段	字段类型	字段说明
type	string	固定为"folder"
id	long	文件夹id
name	string	文件夹名称
size	long	文件夹大小
created_at	timestamp	文件夹创建时间, 单位为秒
modified_at	timestamp	文件夹更新时间, 单位为秒
modified_by	mini_user	文件夹修改者
description	string	文件夹描述
path	path_folder列表	所有祖先文件夹的简略信息
owned_by	user	文件夹所有者
parent	path_folder	父文件夹简略信息
sequence_id	long	文件夹次序号
item_count	int	包含item的数量
folder_type	string	文件夹类型

返回示例

```

1  {
2      "space": {
3          "type": "personal"
4      },
5      "item_count": 0,
6      "type": "folder",
7      "id": 203000426996,
8      "name": "new folders",

```

```
9  "size":0,
10 "created_at":1625039303,
11 "modified_at":1625039303,
12 "description":"",
13 "path":[
14     {
15         "type":"folder",
16         "id":0,
17         "name":"全部文件"
18     }
19 ],
20 "owned_by":{
21     "id":13214349,
22     "name":"yfytest01",
23     "login":"venus@venus.fangcloud.com",
24     "enterprise_id":431512
25 },
26 "parent":{
27     "type":"folder",
28     "id":0
29 },
30 "sequence_id":0,
31 "in_trash":false,
32 "is_deleted":false,
33 "is_frequently_used":false
34 }
```

- 错误码列表

- permission_denied
- folder_name_conflict
- folder_not_found
- item_name_invalid

- 完整示例

```
1 curl --location --request POST
'https://npan.novastar.tech:6001/openapi/api/v2/folder/create' \--header
'Authorization: Bearer 54bb7062-8135-4a22-8ad5-1f95d6e5d23b' \--header 'Content-
Type: application/json' \--data-binary '{    "name": "new folders",    "parent_id":0,
    "target_space": {        "type": "personal",        "id": 179000000086
}}'
```

三、上传文件

- **URL**

```
1 | https://npan.novastar.tech:6001/openapi/api/v2/file/upload_v2
```

- **HTTP请求参数**

POST

需要使用根据用户id生成的用户级别token

- **请求参数说明**

参数字段	字段类型	是否必须	字段说明
parent_id	Long	是	父文件夹id
name	String	是	文件名
upload_type	String	是	上传类型, 目前固定为api

请求示例

```
1 | {
2 |     "parent_id": "0",
3 |     "name": "测试文档xxxxqqq.docx",
4 |     "upload_type": "api"
5 | }
```

- **返回字段说明**

返回字段	字段类型	字段说明
presign_url	string	上传链接, 接下来往该链接上传即可上传文件, 只能被使用一次

返回示例

```
1 | {
2 |     "presign_url":
3 |     "https://upload01.fangcloud.net/upload/ad973f8df9fd48818453a6a0c74ef2bf/cfd856987a
4 |     685972f6c21f4ddc3f8617dc08775aa602012f50649289c0f6f6ef"
5 | }
```

- **完整示例**

```

1 curl --location --request POST
'https://npan.novastar.tech:6001/openapi/api/v2/file/upload' \
2 --header 'Authorization: Bearer 266bb39e-533e-4948-b0f0-beeb13eaa236' \
3 --header 'Content-Type: application/json' \
4 --data-raw '{
5   "parent_id": "0",
6   "name": "测试文档xxxqqq.docx",
7   "upload_type": "api"
8 }'

```

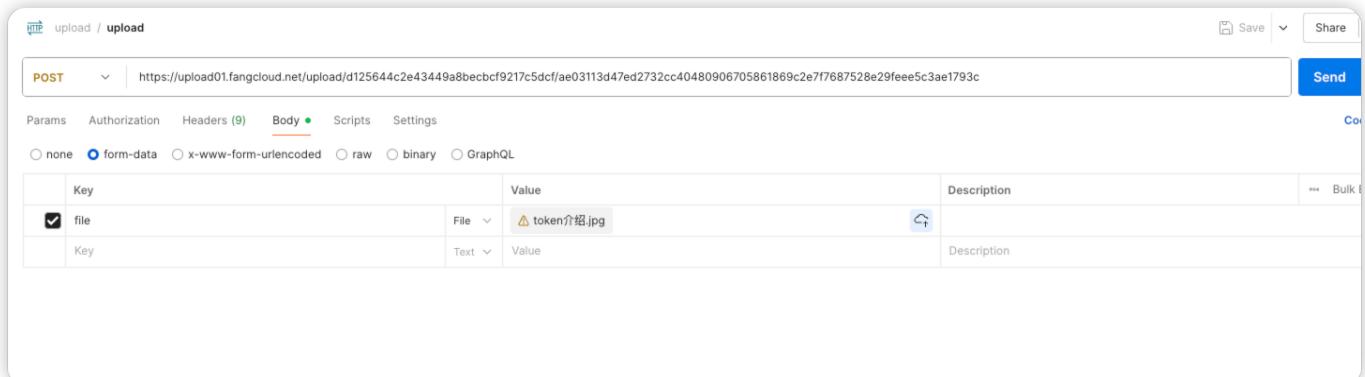
- 真正上传文件请求示例，上传地址为上面接口返回的文件真正上传地址，上传文件后会返回文件详情：

```

1 curl --location
'https://upload01.fangcloud.net/upload/d125644c2e43449a8becbcf9217c5dcf/ae03113d47
ed2732cc40480906705861869c2e7f7687528e29feee5c3ae1793c' \
2 --form 'file=@"/Users/liangxiaosheng/FangcloudV2/personal_space.localized/个人工作
文件/个人/开放平台/开放平台使用文档/token介绍.jpg"'

```

上传文件postman示例



四、删除文件至回收站

- URL

```
1 https://npan.novastar.tech:6001/openapi/api/v2/file/{id}/delete
```

- HTTP请求参数

POST

需要使用根据用户id生成的用户级别token

- 路径参数

参数字段	字段类型	字段说明
id	long	文件id

- **返回字段说明**

返回字段	字段类型	字段说明
success	boolean	表示是否删除成功

返回示例

```
1 | {    "success" : "true"}
```

- **错误码列表**

- file_not_found
- permission_denied
- file_deleted

- **完整示例**

```
1 | curl --location --request POST
  'https://npan.novastar.tech:6001/openapi/api/v2/file/179000100375/delete' \--
  header 'Authorization: Bearer 0e7051d6-bc29-4486-b540-e8b28aa07089'
```

四、搜索文件

搜索文件

- **URL**

```
1 | https://npan.novastar.tech:6001/openapi/api/v2/item/search
```

- **HTTP请求方式**

GET

- **请求参数说明**

参数字段	字段类型	是否必须	字段说明
query_words	string	是	搜索关键词, 不能为空
type	string	否	搜索类型, 分为file, folder, all三种, 默认为all
page_id	int	否	第几页, 每页默认20, 默认为第0页
search_in_folder	long	否	指定父文件夹, 匹配的结果都是该文件夹的子文件或子文件夹
query_filter	string	否	搜索过滤类型, 分为file_name, content, creator, all四种, 默认为all
updated_time_range	string	否	指定更新时间范围搜索

注意: updated_time_range参数格式为开始和结束时间戳, 并以逗号分隔

(如:'1509954358,1509954360'), 两个时间戳均可以不传, 为空就表示不对开始或结束时间进行限制, 但是逗号必须传 (如: ',1509954360' 或 '1509954358,' 或 ',')

- 返回字段说明

返回字段	字段类型	字段说明
folders	list	搜索到的folder的list
files	list	搜索到的file的list
total_count	long	所有匹配结果的数量
page_id	int	页号, 从0开始
page_capacity	int	页容量
page_count	int	总页数

返回示例

```

1  {
2      "files": [
3          {
4              "sha1": "1f5243f2ba7872206aef7197ea92762eddf47555",
5              "comments_count": 0,
6              "extension_category": "document",
7              "type": "file",
8              "id": 3990311,
9              "name": "新建 Microsoft Word 文档.doc",
10             "size": 26112,
11             "created_at": 1461919825,
12             "modified_at": 1461919826,
13             "modified_by": {

```

```
14         "id":468,
15         "name": "tt2",
16         "login": "tt@t.com",
17         "enterprise_id":1
18     },
19     "description": "",
20     "path": [
21         {
22             "type": "folder",
23             "id":0,
24             "name": "全部文件"
25         },
26         {
27             "type": "folder",
28             "id":720342,
29             "name": "download error"
30         }
31     ],
32     "owned_by": {
33         "id":468,
34         "name": "tt2",
35         "login": "tt@t.com",
36         "enterprise_id":1
37     },
38     "parent": {
39         "type": "folder",
40         "id":720342,
41         "name": "download error"
42     },
43     "sequence_id":1
44 },
45 {
46     "sha1": "1f5243f2ba7872206aef7197ea92762eddf47555",
47     "comments_count":0,
48     "extension_category": "document",
49     "type": "file",
50     "id":3990312,
51     "name": "新建 Microsoft Word 文档.doc",
52     "size":26112,
53     "created_at":1461919867,
54     "modified_at":1461919868,
55     "modified_by": {
56         "id":468,
57         "name": "tt2",
58         "login": "tt@t.com",
59         "enterprise_id":1
60     },
61     "description": "",
62     "path": [
63         {
64             "type": "folder",
65             "id":0,
```

```
66             "name": "全部文件"
67         }
68     ],
69     "owned_by": {
70         "id": 468,
71         "name": "tt2",
72         "login": "tt@t.com",
73         "enterprise_id": 1
74     },
75     "sequence_id": 0
76 },
77 {
78     "sha1": "21033782df2fa91ba5fe8c86b0d61d5c88b85903",
79     "comments_count": 0,
80     "extension_category": "document",
81     "type": "file",
82     "id": 3990313,
83     "name": "qwewql2.ppt",
84     "size": 102400,
85     "created_at": 1461919871,
86     "modified_at": 1462957860,
87     "modified_by": {
88         "id": 468,
89         "name": "tt2",
90         "login": "tt@t.com",
91         "enterprise_id": 1
92     },
93     "description": "",
94     "path": [
95         {
96             "type": "folder",
97             "id": 0,
98             "name": "全部文件"
99         }
100     ],
101     "owned_by": {
102         "id": 468,
103         "name": "tt2",
104         "login": "tt@t.com",
105         "enterprise_id": 1
106     },
107     "sequence_id": 2
108 },
109 {
110     "sha1": "8cfed9a789a37cc8f195510ca34bd1c2800ea2a6",
111     "comments_count": 0,
112     "extension_category": "document",
113     "type": "file",
114     "id": 3990314,
115     "name": "12.xls",
116     "size": 23040,
117     "created_at": 1461919873,
```

```
118     "modified_at":1462783210,
119     "modified_by": {
120         "id":468,
121         "name": "tt2",
122         "login": "tt@t.com",
123         "enterprise_id":1
124     },
125     "description":"",
126     "path": [
127         {
128             "type": "folder",
129             "id":0,
130             "name": "全部文件"
131         }
132     ],
133     "owned_by": {
134         "id":468,
135         "name": "tt2",
136         "login": "tt@t.com",
137         "enterprise_id":1
138     },
139     "sequence_id":3
140 },
141 ],
142 "folders": [
143 ],
144 ],
145 "total_count":4,
146 "page_id":0,
147 "page_capacity":20,
148 "page_count":1
149 }
```

- 完整示例

```
1 curl --location --request GET
'https://npan.novastar.tech:6001/openapi/api/v2/item/search?
query_words=test1&type=all&page_id=0&query_filter=all' \--header 'Authorization:
Bearer 5c665f6c-30c2-4f1d-93c0-6ab623001dd6' \--header 'Content-Type:
application/json'
```