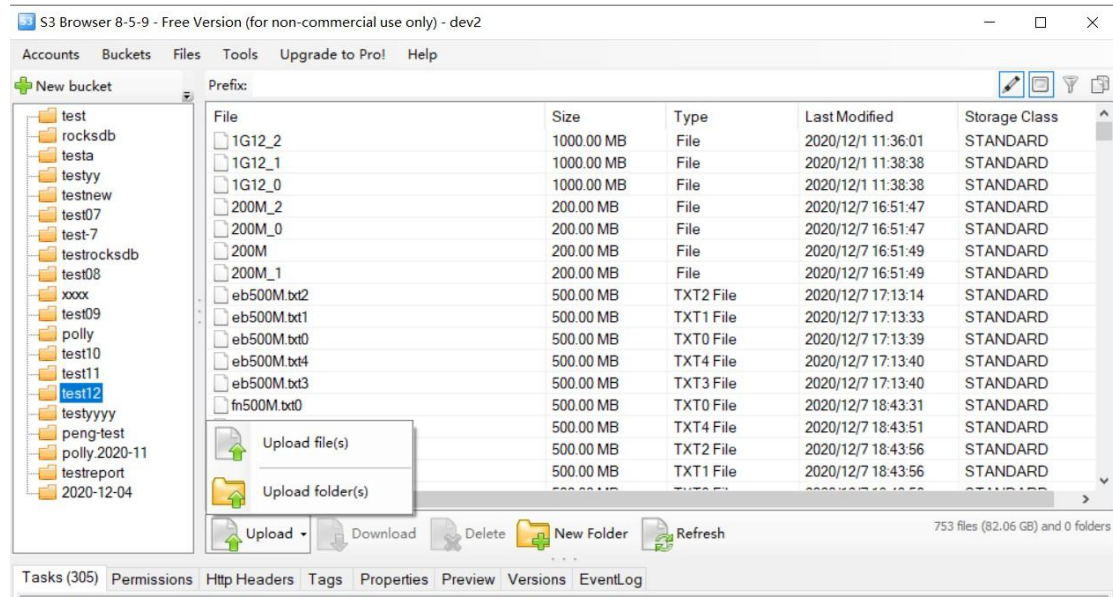


GO Version S3 Windows Environment Manual

1. Upload files

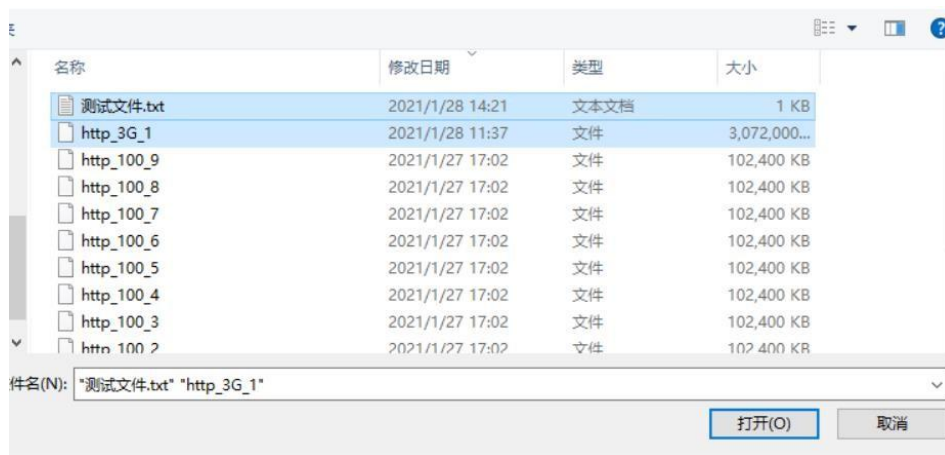
S3 Browser refers to Go version S3 Windows Environment Deployment Manual. After creating the bucket, click "Upload" and select Transfer files/folders.



Choose file to submit, Choose a 3G randomly generated file and a 1k file here:



The file starts uploading at 11:49:29



```
[11:49:28.321][Debug]maddr support HTTP
[11:49:28.448][Infos][PreAllocNode]Return 670 nodes,Excludes 0 nodes.
[11:49:29.120][Infos]complete multipart upload test1 http_36_1 1
[11:49:29.172][Infos]0[11:49:42.170][Infos][UploadMultiPartFile]test1/http_36_1,Insert cache ok
[11:49:42.170][Infos]upload hash etag:"6c676953ae99803423a47ab53f40c8e5"
[11:49:42.170][Infos]File upload success,file md5 value : 6c676953ae99803423a47ab53f40c8e5
[11:49:42.176][Infos]LIST BUCKET
[11:49:42.176][Infos]bucketname:test1
```

The file can be viewed in the bucket, indicating that the upload is successful.

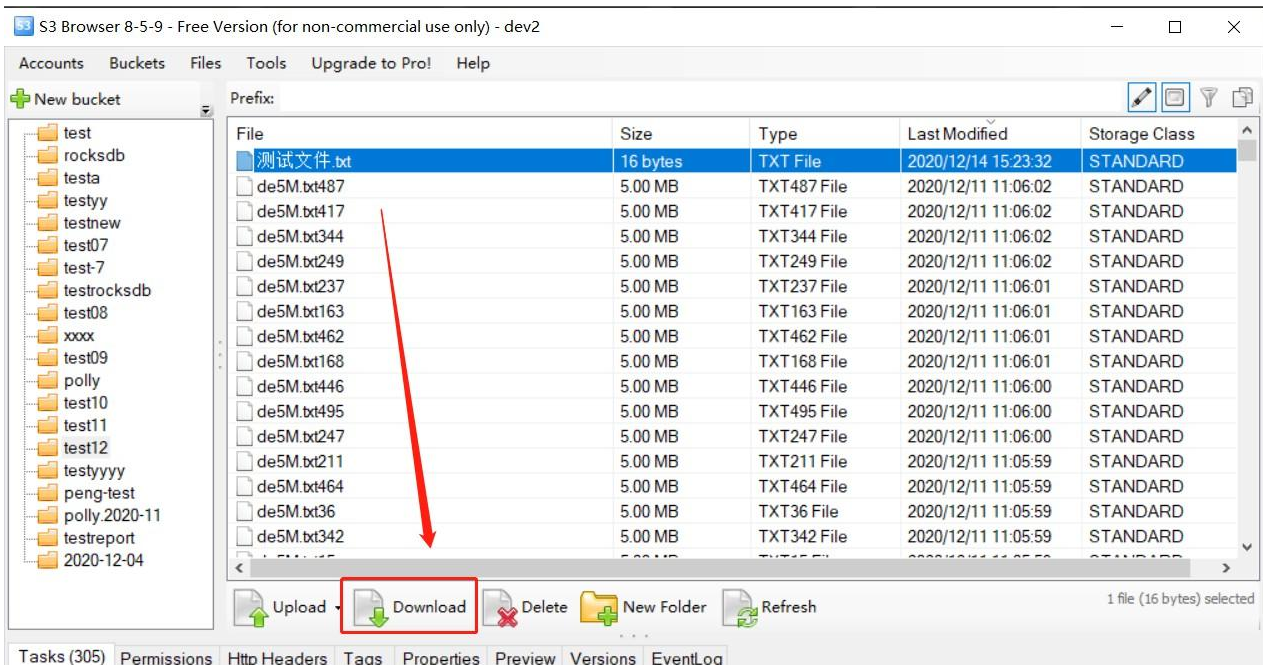
Check the log, the upload time is 12:18:09

```
[12:18:09.210][Infos][UploadShard][60123462329f84d77df11b6e][1464][145]SendShard:RETURN OK 0,4tuVPQnBSJq8
[12:18:09.210][Infos][UploadBlock][60123462329f84d77df11b6e][1464]Upload block OK,shardcount 164/164,take
[12:18:09.210][Debug]maddr support HTTP
[12:18:09.275][Infos][UploadBlock][60123462329f84d77df11b6e][1464]Write shardmetas OK,take times 65 ms.
[12:18:09.276][Debug]maddr support HTTP
[12:18:09.327][Infos][UploadObject][60123462329f84d77df11b6e]Upload object OK.
[12:18:09.336][Debug]maddr support HTTP
[12:18:09.364][Infos][CreateObject][39]test1/http_36_1 OK.
[12:18:09.364][Infos][AyncUpload]WriteMeta OK,test1/http_36_1
[12:19:13.334][Debug]maddr support HTTP
[12:19:13.479][Infos][PreAllocNode]Return 678 nodes,Excludes 0 nodes.
[12:20:58.335][Debug]maddr support HTTP
[12:20:58.452][Infos][PreAllocNode]Return 669 nodes,Excludes 0 nodes
```

According to the upload time, we calculated the upload speed to be 1.74M/s

2. Download files

Select the file in the bucket to download



Download is successful Because windows random files cannot be compared, check the 1k small file,

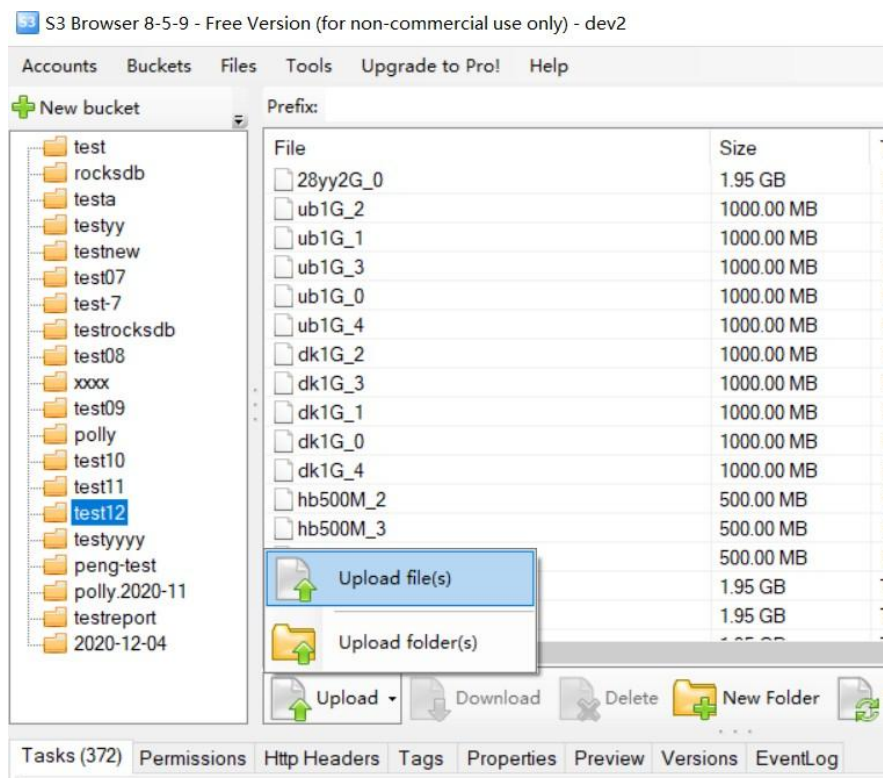
which is consistent with the original file content

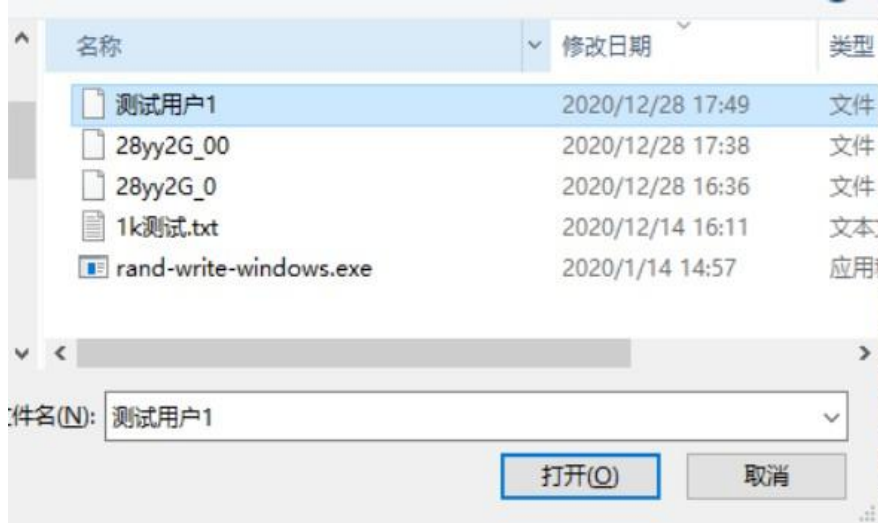


3. Multi-user upload files

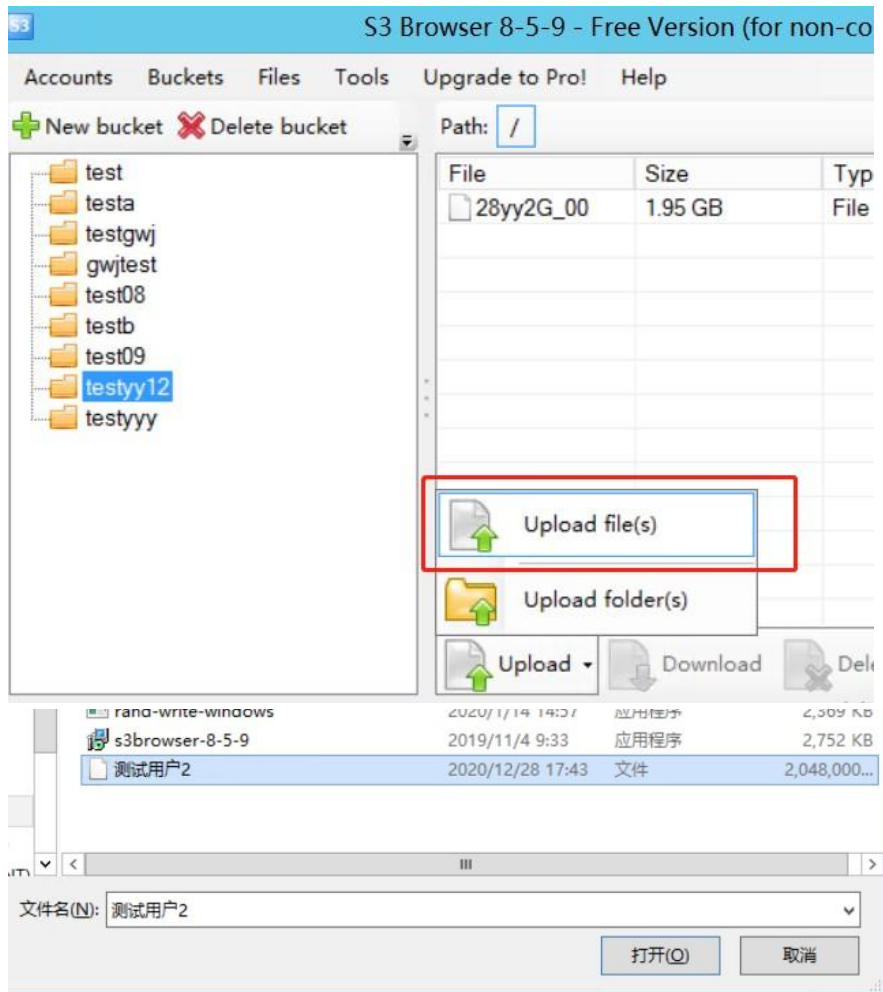
The multi-user connection refers to the multi-user configuration in the "GO Version S3 Windows Environment Deployment Manual". After two clients' windows are configured separately, select the files to upload at the same time.

1. User 1: select upload file <test user 1>





2. User 2: select upload file <test user 2>



3. After the two files are selected for upload. The log shows that the file is being written into the cache:

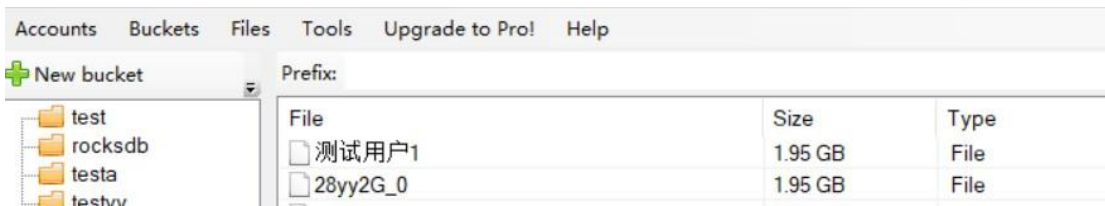
```
[17:48:37.556][Infos][PreAllocNode]Return 60 nodes,Excludes 0 nodes.
[17:50:22.591][Infos][PreAllocNode]Return 60 nodes,Excludes 0 nodes.
[17:52:01.913][Infos]initiate multipart upload
[17:52:07.587][Infos][PreAllocNode]Return 60 nodes,Excludes 0 nodes.
[17:52:29.136][Infos]initiate multipart upload
[17:53:52.588][Infos][PreAllocNode]Return 60 nodes,Excludes 0 nodes.
[17:55:37.613][Infos][PreAllocNode]Return 60 nodes,Excludes 0 nodes.
```

4. When the upload is complete, the log is displayed as:

```
[18:18:32.746][Infos][UploadBlock][5fe9af4dbe8e61239f896e24][999]Upload block OK,shardcount 164/164,take times 56 ms.
[18:18:32.797][Infos][UploadBlock][5fe9af4dbe8e61239f896e24][998]Write shardmetas OK,take times 56 ms.
[18:18:32.822][Infos][UploadBlock][5fe9af4dbe8e61239f896e24][999]Write shardmetas OK,take times 74 ms.
[18:18:33.044][Infos][UploadObject][5fe9af4dbe8e61239f896e24]Upload object OK.
[18:18:33.085][Infos][CreateObject][8]test12/测试用户1 OK.
[18:18:33.085][Infos][AyncUpload]WriteMeta OK,test12/测试用户1
[18:19:51.536][Infos]complete multipart upload testyy12 测试用户2 1
[18:19:51.543][Infos][PreAllocNode]Return 60 nodes,Excludes 0 nodes.
[18:20:21.326][Infos][UploadMultiPartFile]testyy12/测试用户2,Insert cache ok
[18:20:21.327][Infos]upload_hash_etag:"f2afd6d18fd495c8cba07fc41d31c106"
```

```
[18:25:43.880][Infos][UploadShard][5fe9b10ebe8e61239f896e25][997][153]SendShard:RET
[18:25:43.880][Infos][UploadBlock][5fe9b10ebe8e61239f896e25][997]Upload block OK,sh
[18:25:43.888][Infos][UploadBlock][5fe9b10ebe8e61239f896e25][999]Write shardmetas O
[18:25:43.934][Infos][UploadBlock][5fe9b10ebe8e61239f896e25][997]Write shardmetas O
[18:25:44.189][Infos][UploadObject][5fe9b10ebe8e61239f896e25]Upload object OK.
[18:25:44.227][Infos][CreateObject][5]testyy12/测试用户2 OK.
[18:25:44.228][Infos][AyncUpload]WriteMeta OK,testyy12/测试用户2
[18:27:07.647][Infos][PreAllocNode]Return 60 nodes,Excludes 0 nodes.
[18:28:52.646][Infos][PreAllocNode]Return 60 nodes,Excludes 0 nodes.
```

5. Check S3browser to view the successfully uploaded files



According to the upload time of the two, we calculated the upload speed to be 1.25M/s and 1M/s respectively

4. Offline coding

1. Modify the s3 configuration file GO_YTS3_Windows\conf\ytf.properties, and add configuration:

The #cache parameter specifies the local nas directory, just specify a common directory in the test environment, such as: /mnt/nas cache=/mnt/nas

#Back-end driver is designated as nas driver=nas

```
#cache参数指定为本地nas目录,在测试环境中指定一个普通目录即可,如:/mnt/nas
cache=D:\yts3\GO_YTS3_Windows\nas
#后端驱动指定为nas
driver=nas
```

After starting the s3 service, select the file to upload. After the upload is complete, the file cannot be viewed in the bucket. The log shows that the upload is completed and divided into blocks:

```
[10:49:56.505][Infos]LIST_BUCKET
[10:49:56.505][Infos]bucketname:test12
[10:49:56.505][Infos]prefix      :prefix:""
[10:49:56.505][Infos]page       :{Marker: HasMarker:false MaxKeys:1000}
[10:49:56.683][Infos][UploadObjectToDisk][test12/50k_yy]Write Block 1:no-repeat
[10:49:56.683][Infos][UploadObjectToDisk][test12/50k_yy2]Write Block 1:no-repeat
[10:49:56.683][Infos][ListObject][8]test12//00000000000000000000000000000000 OK,count:857
[10:49:56.683][Infos]items len 857
[10:49:56.691][Infos][UploadObjectToDisk][test12/50k_yy]Upload object OK.
[10:49:56.696][Infos][UploadObjectToDisk][test12/50k_yy2]Upload object OK.
[10:49:56.804][Infos][UploadObjectToDisk][test12/50k_yy1]Write Block 1:no-repeat
[10:49:56.814][Infos][UploadObjectToDisk][test12/50k_yy1]Upload object OK.
[10:50:29.713][Infos][PreAllocNode]Return 58 nodes,Excludes 0 nodes.
```

2. Modify the s3 configuration file GO_YTS3_Windows\conf\ytf.properties, and add configuration: #Synchronize the pre-encoded files of the local nas to yotta. By checking the properties in the file, under the property "s3cache=...", it is possible to find the "syncmode=..." property. If the "syncmode=0" means not to start, if it's "syncmode=1" it means that the corresponding NAS file should be deleted after uploading.

After restarting the service, there is no need to log in as a user. After s3 detects that the startSync parameter>0, it will start file synchronization, and the upload is completed as viewed in the log.

```
[11:00:35.899][Infos][UploadShard][5fd826d2083817f2f6f51a91][0][12]SendShard:RETURN OK 0,VtMgnBwDAvsV2ejtLK3Xn to 56,Gettoken retry 1 to
[11:00:35.899][Infos][UploadBlock][5fd826d2083817f2f6f51a91][0]Upload block OK,shardcount 20/20,take times 834 ms.
[11:00:35.991][Infos][UploadBlock][5fd826d2083817f2f6f51a90][0]write shardmetas OK,take times 93 ms.
[11:00:35.991][Infos][UploadBlock][5fd826d2083817f2f6f51a91][0]write shardmetas OK,take times 91 ms.
[11:00:36.138][Infos][UploadBlock][5fd826d3083817f2f6f51a92][0]write shardmetas OK,take times 238 ms.
[11:00:36.190][Infos][SyncUpload][5fd826d2083817f2f6f51a91]Upload object OK.
[11:00:36.258][Infos][CreateObject][8]test12/50k_yy OK.
[11:00:36.268][Infos][SyncUpload][ObjectID("5fd826d2083817f2f6f51a91")]WriteMeta OK,test12/50k_yy
[11:00:36.433][Infos][SyncUpload][5fd826d2083817f2f6f51a90]Upload object OK.
[11:00:36.486][Infos][CreateObject][8]test12/50k_yy2 OK.
[11:00:36.486][Infos][SyncUpload][ObjectID("5fd826d2083817f2f6f51a90")]WriteMeta OK,test12/50k_yy2
[11:00:36.579][Infos][SyncUpload][5fd826d3083817f2f6f51a92]Upload object OK.
[11:00:36.641][Infos][CreateObject][8]test12/50k_yy1 OK.
[11:00:36.641][Infos][SyncUpload][ObjectID("5fd826d3083817f2f6f51a92")]WriteMeta OK,test12/50k_yy1
```

3. Modify the s3 configuration file GO_YTS3_Windows\conf\ytf.properties, modify the configuration: syncmode=0

After restarting the s3 service, log in to the user and check the bucket list to see the offline encoded files

File	Size	Type	Last Modified	Storage Class
50k_yy	50.00 KB	File	2020/12/15 11:00:36	STANDARD
50k_yy1	50.00 KB	File	2020/12/15 11:00:36	STANDARD
50k_yy2	50.00 KB	File	2020/12/15 11:00:36	STANDARD
vh20k.txt14	20.00 KB	TXT14 File	2020/12/14 18:55:23	STANDARD

4. Download the file, and compare the content of the file to be consistent