GO Version S3 Linux Environment Deployment Manual

1. Description

The instructions shown below are applicable for Centos7+, if the deployment is being done through other Linux systems, please use the corresponding commands

2、s3 download and install

2.1 Downloading and Unzipping

First copy the s3 installation folder to the designated test machine (the installation folder can be downloaded from the official website,<u>https://www.yottachain.io/</u> -> go to the top menu, in Download(or Get Started) -> download Go S3 Client-linux), then unzip it to the specified directory, as shown below:



After successful unzipping, copy the "GO_YTS3_Linux" directory to the

corresponding location, here we copied it to the "/mnt" directory, then install

and start the service. The directory structure is shown in the following figure:

2.2 2.2 Installation and operation

Enter the bin directory of s3 and execute "./YTS3 install" to install the service



Check the installation statues, execute "systemctl status yts3.service"

<pre>[root@nm-yaceji03 G0_YTS3_Linux]# systemctl status yts3.service</pre>	
 yts3.service - go yts3 daemons service 	
Loaded: loaded (/etc/systemd/system/yts3.service; enabled; vendor preset: disabled)	
Active: inactive (dead)	
[root@nm-yaceji03 G0_YTS3_Linux]# 🗧	

Check the installation statues, execute "systemctl start yts3.service"

<pre>[root@nm-yaceji03 G0 YTS3 Linux]# system</pre>	ctl status yts	3.service	
 vts3.service - go vts3 daemons servic 	e		
Loaded: loaded (/etc/systemd/system/y	ts3.service: e	nabled: vendor preset: disabled)	
Active: active (running) since Mon 20	20-12-14 10:53	154 CST: As ano	
Main DID: 20750 (VTS2)	20 12 14 10:55	1.54 C51, 43 ugo	
CGroup: /system.slice/yts3.service			
└─29750 /mnt/GO_YTS3_Linux/YT	S3		
den store de Maandel Verschaft - en de staatste besker et er van weder se breide versche en daarde Maardel Vers			
<pre>Dec 14 10:53:54 nm-yaceji03 YTS3[29750]:</pre>	[GIN-debug] G	ET /api/v1/createBucket	> github.com/yottachain/YTS3/controllndlers
Dec 14 10:53:54 nm-yaceji03 YTS3[29750]:	[GIN-debug] P	OST /api/v1/upload	> github.com/yottachain/YTS3/controllndlers
Dec 14 10:53:54 nm-vaceji03 YTS3[29750]:	[GIN-debug] G	ET /api/v1/getObject	> github.com/vottachain/YTS3/controllndlers
Dec 14 10:53:54 nm-vaceji03 YTS3[29750]:	[GIN-debug] G	ET /api/v1/getObjectProgress	> github.com/vottachain/YTS3/controllndlers
Dec 14 10:53:54 nm-vaceii03 YTS3[29750]:	[GIN-debug] G	FT /api/v1/listBucket	> github.com/vottachain/YTS3/controllndlers
Dec 14 10:53:54 nm-vaceji03 YTS3[20750].	[GTN-debug] G	ET /ani/v1/listAllBucket	and a straight and a
Dec 14 10.53.54 nm vaccij05 1155[25750].	[CTN debug] C	ET /api/v1/t1stAttbacket	github.com/yottachain/YTS3/controll ndlers
Dec 14 10:55:54 nm-yacej105 1155[29/50]:	[GIN-debug] G	T /api/vi/getriogress	> github.com/yottachain/1155/controlthdters
Dec 14 10:53:54 nm-yacej103 YTS3[29/50]:	[GIN-debug] G	EI /ap1/v1/getits3version	> github.com/yottachain/fis3/controllhdlers
Dec 14 10:53:54 nm-yaceji03 YTS3[29750]:	[10:53:54.587][Infos]HTTPServer start Success	s 8080
<pre>Dec 14 10:53:54 nm-yaceji03 YTS3[29750]:</pre>	[GIN-debug] L	istening and serving HTTP on lis	tener what's bind with address@0.0.0.0:8080
Hint: Some lines were ellipsized, use -l	to show in fu	u.	
[root@nm_vaceii03_G0_VTS3_Linux]#			

Check the log to see that the service is already running

[root@nm-yaceji03 G0_YTS3_Linux]# pwd
/mnt/G0_YTS3_Linux
[root@nm-yaceji03 GO_YTS3_Linux]# ls
bin cache conf log p2phostinfo.log YTS3
[root@nm-yaceji03 G0_YTS3_Linux]# tailf log/log
[10:53:54.265][Infos][Booter]Node Addrs 0:/ip4/192.168.1.195/tcp/38866
[10:53:54.265][Infos][Booter]Node Addrs 1:/ip4/117.161.72.86/tcp/38866
[10:53:54.265][Infos][Booter]Node Addrs 2:/ip6/fe80::ff0a:74e9:dec9:b046/tcp/38866
[10:53:54.265][Infos][Booter]Node Addrs 3:/ip6/fe80::ebe7:1391:db33:c8c9/tcp/38866
[10:53:54.265][Infos][Booter]Node Addrs 4:/ip6/fe80::838e:e545:ffba:baef/tcp/38866
[10:53:54.385][Infos][NodeMgr]Snlist init ok,Size:21
<pre>[10:53:54.586][Infos][Cache]LocalDB initPath:/mnt/G0_YTS3_Linux/cache/dbcache/cache.db</pre>
[10:53:54.587][Infos][Cache]Sum cache size 0
[10:53:54.587][Infos][Cache]Clearing expired files
[10:53:54.587][Infos]HTTPServer start Success 8080

3. Pre-Test Preparation

Before the final test, you should configure the relevant test machine according to the actual statues of your test machine, and install the corresponding test tool

3.1 Configuration modification

Check the "ytfs.properties" file in the "conf" directory as follows, then modify the configuration according to the situation



If the memory and bandwidth of the machine are sufficient, parameters such as load memory and block concurrency can be adjusted accordingly. After parameter modification, the service should be restarted.

3.2 User Registration (Login)

Each time after restarting the service, you need to register the user before uploading and downloading the files. Execute commands like the following:

"curl -X POST -k https://localhost:8080/api/v1/insertuser -d

'userName=***&privateKey=***' -k"

Fill in your user name and private key. The user name is 12-bit character length. The private key is the user's storage private key and it is registered successfully when "status" :200, as shown in the figure

below:



After successful registration, you can upload and download files.

3.3 Install s3cmd tool

Execute "yum install s3cmd -y"

Install 1 Package		
Total download size: 194 k		
Installed size: 754 k		
Is this ok [v/d/N]: v		
Downloading packages:		
s3cmd-2.1.0-1.el7.noarch.rpm	194 kB	00:00:05
Running transaction check		- 2011 CUBITIC VARIACIE CONTECC
Running transaction test		
Transaction test succeeded		
Running transaction		
Installing : s3cmd-2.1.0-1.el7.noarch		1/1
Verifying : s3cmd-2.1.0-1.el7.noarch		1/1
Installed:		
s3cmd.noarch 0:2.1.0-1.el7		
Complete!		

Configure s3cmd after installation, and execute "s3cmd --if configure" for the first time. Fill in the address, public and private keys and other information

according to the corresponding highlighted parameters



The final configuration file is as follows:



To support the https protocol, you need to modify part of the

configuration and edit the default configuration file

vi /root/.s3cfg

Modify "use_https = True"



```
Modify "check_ssl_certificate = False"
```



After configuration, you can execute "s3cmd ls" list operation to check whether the configuration is available

-	
[root@nm-yaceji03	~]# s3cmd ls
2020-12-14 11:18	s3://2020-12-04
2020-12-14 11:18	s3://2020-12-07
2020-12-14 11:18	s3://2020-12-08
2020-12-14 11:18	s3://2020-12-09
2020-12-14 11:18	s3://2020-12-10
2020-12-14 11:18	s3://2020-12-11
2020-12-14 11:18	s3://2020-12-14
2020-12-14 11:18	s3://bucket0
2020-12-14 11:18	s3://bucket1
2020-12-14 11:18	s3://forup
2020-12-14 11:18	s3://newbucket
2020-12-14 11:18	s3://polly
2020-12-14 11:18	s3://polly.2020-11
2020-12-14 11:18	s3://polly.2020-12
2020-12-14 11:18	s3://test
2020-12-14 11:18	s3://tmpupload-yunpan-1
2020-12-14 11:18	s3://ybscan
2020-12-14 11:18	s3://yunpan-1
2020-12-14 11:18	s3://zhangzhengyan
[root@nm-yaceji03	

At this point, the test environment is successfully installed, and functions and performance related tests can be performed later.

4. Multi-user registration

Multiple users can register, upload and download files through the same S3 Server. We can register according to the user guidelines mentioned above using different user names and private keys for registration, and then use different clients to configure S3CMD to connect to the current S3 Server to achieve multi-user upload and download.

Use the following command to register:

[root@VM_48_45_centos ~]# curl -X POST https://localhost:8080/api/v1/insertuser -d 'userName=insmconcyyld&privateKey=53eLBW1bTC @zbwg2v7langxfMWHzA07qe0jsbegggw3TTTNBWL' -k {"Msg":"Register success ianmooneyyll","status":200}[root@VM_48_45_centos ~]# []

If you register localhost on a remote side, change to

S3 Server's IP address as follows:

/001(01111-Yace 103 //33)# Lait/ L00/L00
[10:57:47.848][Infos][Booter]Node Addrs 0:/ip4/192.168.1.195/tcp/35660
[10:57:47.848][Infos][Booter]Node Addrs 1:/ip4/117.161.72.86/tcp/35660
[10:57:47.848][Infos][Booter]Node Addrs 2:/ip6/fe80::ff0a:74e9:dec9:b046/tcp/35660
[10:57:47.848][Infos][Booter]Node Addrs 3:/ip6/fe80::ebe7:1391:db33:c8c9/tcp/35660
[10:57:47.848][Infos][Booter]Node Addrs 4:/ip6/fe80::838e:e545:ffba:baef/tcp/35660
[10:57:47.959][Infos][NodeMgr]Snlist init ok,Size:21
[10:57:48.015][Infos][Cache]LocalDB initPath:/mnt/YTS3/cache/dbcache/cache.db
[10:57:48.015][Infos][Cache]Sum cache size 0
[10:57:48.015][Infos][Cache]Clearing expired files
[10:57:48.017][Infos]HTTPServer start Success 8080
[10:57:59.746][Infos][Regist]User 'ianmooneyy11' registration successful,ID-KeyNumber:39/0,at sn 18
[10:58:00.042][Infos][PreAllocNode]Return <u>351 nodes,Excludes_0_nodes</u> .
[10:58:00.768][Infos]User Register Success,UserName: ianmooneyy11 🦳
[10:58:31.045][Infos][Regist]User 'pollyzhang11' registration successful,ID-KeyNumber:151/0,at sn 4
<pre>[10:58:31.125][Infos][PreAllocNode]Return 351 nodes,Excludes 0 nodes.</pre>
[10:58:31.158][Infos]User Register Success,UserName: pollyzhang11

After a successful registration, you can configure S3CMD in your own client and fill in your own user information, as shown in the above configuration process of installing S3CMD. After the configuration is complete, opening the respective buckets will display your own bucket list

User 1:

[root@nm-ya	ceji03	~]# s3cmd ls
2020-12-29	11:40	s3://2020-12-04
2020-12-29	11:40	s3://2020-12-07
2020-12-29	11:40	s3://2020-12-08
2020-12-29	11:40	s3://2020-12-09
2020-12-29	11:40	s3://2020-12-10
2020-12-29	11:40	s3://2020-12-11
2020-12-29	11:40	s3://2020-12-14
2020-12-29	11:40	s3://2020-12-15
2020-12-29	11:40	s3://2020-12-16
2020-12-29	11:40	s3://2020-12-17
2020-12-29	11:40	s3://2020-12-21
2020-12-29	11:40	s3://2020-12-22
2020-12-29	11:40	s3://2020-12-24
2020-12-29	11:40	s3://2020-12-28
2020-12-29	11:40	s3://20201228
2020-12-29	11:40	s3://bucket0
2020-12-29	11:40	s3://bucket1
2020-12-29	11:40	s3://forup
2020-12-29	11:40	s3://new-bucket-d35e042f
2020-12-29	11:40	s3://newbucket
2020-12-29	11:40	s3://nnnn
2020-12-29	11:40	s3://polly
2020-12-29	11:40	s3://polly.2020-11
2020-12-29	11:40	s3://polly.2020-12
2020-12-29	11:40	s3://ssss
2020-12-29	11:40	s3://test
2020-12-29	11:40	s3://tmpupload-yunpan-1
2020-12-29	11:40	s3://ybscan
2020-12-29	11:40	s3://yunpan-1
2020-12-29	11:40	s3://zhangzhengyan

User 2:

[root@nm-zl	nengyan	-ceshiji ~]# s3cmd ls
2020-12-29	11:45	s3://2zzzznbd1
2020-12-29	11:45	s3://33wws
2020-12-29	11:45	s3://bucket0
2020-12-29	11:45	s3://bucket1
2020-12-29	11:45	s3://bucket2
2020-12-29	11:45	s3://bucket3
2020-12-29	11:45	s3://bucket4
2020-12-29	11:45	s3://bucket5
2020-12-29	11:45	s3://bucket6
2020-12-29	11:45	s3://bucket7
2020-12-29	11:45	s3://bucket8
2020-12-29	11:45	s3://bucket9
2020-12-29	11:45	s3://gotest
2020-12-29	11:45	s3://new-bucket-0099adc0
2020-12-29	11:45	s3://new-bucket-29380614
2020-12-29	11:45	s3://new-bucket-7a6ccda6
2020-12-29	11:45	s3://owner
2020-12-29	11:45	s3://phs-test
2020-12-29	11:45	s3://polly
2020-12-29	11:45	s3://test
2020-12-29	11:45	s3://test03
2020-12-29	11:45	s3://test04
2020-12-29	11:45	s3://test05
2020-12-29	11:45	s3://test07
2020-12-29	11:45	s3://test08
2020-12-29	11:45	s3://test09
2020-12-29	11:45	s3://test1
2020-12-29	11:45	s3://test10

At this point, multiple users can upload and download files at the same time