# GBase8s自动初化脚本使用说明

**脚本名称：**AutoInit\_GBase8s.sh

**功能：**自动解压同一目录下的GBase 8s安装包，并执行数据库软件安装，数据库初始化，同时根据操作系统资源进行一定的数据库参数优化操作。最终生成可用的数据库环境。

**适用性：**适用于x86\_64架构下的REHL6以上(或者类似的CentOS)操作系统环境，在基于Ubuntu的银河麒麟（4.0.2）上通过验证。其它系统环境未经实际验证，但应不影响使用。

**完成后的JDBC连接**

**DriverName：**com.gbasedbt.jdbc.IfxDriver

**URL(直接指定服务器)：**jdbc:gbasedbt-sqli://<IPADDR>:9088/<DBNAME>:GBASEDBTSERVER=gbase01;DB\_LOCALE=zh\_CN.utf8;CLIENT\_LOCALE=zh\_CN.utf8;IFX\_LOCK\_MODE\_WAIT=10;IFX\_ISOLATION\_LEVEL=5;

其中：<IPADDR>为实际IP地址，<DBNAME>为数据库名称

**使用说明：**

1，将脚本AutoInit\_GBase8s.sh与GBase 8s安装包放置同一目录下。

[root@bd ~]# ll

total 309172

-rwxr-xr-x 1 root root 12694 Feb 18 15:35 AutoInit\_GBase8s.sh

-rwxr-xr-x 1 root root 612 Jan 2 10:18 CleanAll.sh

-rw-r--r-- 1 root root 316641280 Nov 22 20:06 GBase8sV8.7\_AEE\_2.0.1A2\_2\_RHEL6\_x86\_64.tar

2，执行安装

[root@bd ~]# **bash AutoInit\_GBase8s.sh**

[2020-02-18 15:36:02] Datadir: **/opt/gbase/data**

[2020-02-18 15:36:02] IPADDR: **192.168.0.4**

[2020-02-18 15:36:02] unzip check passed.

[2020-02-18 15:36:02] tar check passed.

[2020-02-18 15:36:02] timeout check passed.

[2020-02-18 15:36:02] Creating group [gbasedbt] and user [gbasedbt] with HOME [/home/gbase].

[2020-02-18 15:36:02] Unziping [GBase8sV8.7\_AEE\_2.0.1A2\_2\_RHEL6\_x86\_64.tar].

[2020-02-18 15:36:06] Check path INSTALL\_DIR(/opt/gbase) security.

[2020-02-18 15:36:06] Execute software install, this will take a moment.

说明：不带参数将使用默认的DATADIR=/opt/gbase/data，该目录用于存放数据库空间文件。或者实际不使用该目录，应加参数指定，如： AutoInit\_GBase8s.sh /gbasedata/dbs 指定使用的空间为/gbasedata/dbs。

注：指定的目录应有足够的空间，最小安装不小于20GB空间。

安装过程中将打印安装过程，日志如下：

[root@bd ~]# **bash AutoInit\_GBase8s.sh**

[2020-02-18 15:36:02] Datadir: **/opt/gbase/data**

[2020-02-18 15:36:02] IPADDR: **192.168.0.4**

[2020-02-18 15:36:02] unzip check passed.

[2020-02-18 15:36:02] tar check passed.

[2020-02-18 15:36:02] timeout check passed.

[2020-02-18 15:36:02] Creating group [gbasedbt] and user [gbasedbt] with HOME [/home/gbase].

[2020-02-18 15:36:02] Unziping [GBase8sV8.7\_AEE\_2.0.1A2\_2\_RHEL6\_x86\_64.tar].

[2020-02-18 15:36:06] Check path INSTALL\_DIR(/opt/gbase) security.

[2020-02-18 15:36:06] Execute software install, this will take a moment.

[2020-02-18 15:38:13] Building ~gbasedbt/.bash\_profile .

[2020-02-18 15:38:13] Building /opt/gbase/etc/sqlhosts .

[2020-02-18 15:38:13] Building /opt/gbase/etc/onconfig.gbase01 .

[2020-02-18 15:38:13] Creating DATADIR: /opt/gbase/data .

[2020-02-18 15:38:13] Start run database init: oninit -ivy

Reading configuration file '/opt/gbase/etc/onconfig.gbase01'...succeeded

Creating /GBASEDBTTMP/.infxdirs...succeeded

Allocating and attaching to shared memory...succeeded

Creating resident pool 4310 kbytes...succeeded

Creating infos file "/opt/gbase/etc/.infos.gbase01"...succeeded

Linking conf file "/opt/gbase/etc/.conf.gbase01"...succeeded

Initializing rhead structure...rhlock\_t 16384 (512K)... rlock\_t (2656K)... Writing to infos file...succeeded

Initialization of Encryption...succeeded

Initializing ASF...succeeded

Initializing Dictionary Cache and SPL Routine Cache...succeeded

Bringing up ADM VP...succeeded

Creating VP classes...succeeded

Forking main\_loop thread...succeeded

Initializing DR structures...succeeded

Forking 1 'soctcp' listener threads...succeeded

Starting tracing...succeeded

Initializing 8 flushers...succeeded

Initializing log/checkpoint information...succeeded

Initializing dbspaces...succeeded

Opening primary chunks...succeeded

Validating chunks...succeeded

Creating database partition...succeeded

Initialize Async Log Flusher...succeeded

Starting B-tree Scanner...succeeded

Init ReadAhead Daemon...succeeded

Init DB Util Daemon...succeeded

Initializing DBSPACETEMP list...succeeded

Init Auto Tuning Daemon...succeeded

Checking database partition index...succeeded

Initializing dataskip structure...succeeded

Checking for temporary tables to drop...succeeded

Updating Global Row Counter...succeeded

Forking onmode\_mon thread...succeeded

Creating periodic thread...succeeded

Creating periodic thread...succeeded

Starting scheduling system...succeeded

Verbose output complete: mode = 5

OK

[2020-02-18 15:38:30] Creating system database.......

[2020-02-18 15:38:49] Creating dbspace plogdbs.

[2020-02-18 15:38:57] Creating dbspace llogdbs.

[2020-02-18 15:39:05] Creating dbspace tempdbs1

[2020-02-18 15:39:13] Creating smart blob space sbspace1

[2020-02-18 15:39:21] Creating dbspace datadbs1

[2020-02-18 15:39:29] Changing auto extend able on for chunk datadbs1

[2020-02-18 15:39:30] Creating default user for mapping user

[2020-02-18 15:39:30] Moving physical log to plogdbs.

[2020-02-18 15:39:42] Adding 10 logical log file in llogdbs.

[2020-02-18 15:39:54] Moving CURRENT logical log to new logical file.

[2020-02-18 15:40:06] Droping logical log file which in rootdbs.

[2020-02-18 15:40:08] Creating file $INSTALL\_DIR/etc/sysadmin/stop .

[2020-02-18 15:40:08] Optimizing database config.

[2020-02-18 15:40:08] Restart GBase 8s Database Server.

Reading configuration file '/opt/gbase/etc/onconfig.gbase01'...succeeded

Creating /GBASEDBTTMP/.infxdirs...succeeded

Allocating and attaching to shared memory...succeeded

Creating resident pool 13478 kbytes...succeeded

Creating infos file "/opt/gbase/etc/.infos.gbase01"...succeeded

Linking conf file "/opt/gbase/etc/.conf.gbase01"...succeeded

Initializing rhead structure...rhlock\_t 32768 (1024K)... rlock\_t (6640K)... Writing to infos file...succeeded

Initialization of Encryption...succeeded

Initializing ASF...succeeded

Initializing Dictionary Cache and SPL Routine Cache...succeeded

Bringing up ADM VP...succeeded

Creating VP classes...succeeded

Forking main\_loop thread...succeeded

Initializing DR structures...succeeded

Forking 1 'soctcp' listener threads...succeeded

Starting tracing...succeeded

Initializing 32 flushers...succeeded

Initializing SDS Server network connections...succeeded

Initializing log/checkpoint information...succeeded

Initializing dbspaces...succeeded

Opening primary chunks...succeeded

Validating chunks...succeeded

Initialize Async Log Flusher...succeeded

Starting B-tree Scanner...succeeded

Init ReadAhead Daemon...succeeded

Init DB Util Daemon...succeeded

Initializing DBSPACETEMP list...succeeded

Init Auto Tuning Daemon...succeeded

Checking database partition index...succeeded

Initializing dataskip structure...succeeded

Checking for temporary tables to drop...succeeded

Updating Global Row Counter...succeeded

Forking onmode\_mon thread...succeeded

Creating periodic thread...succeeded

Creating periodic thread...succeeded

Starting scheduling system...succeeded

Verbose output complete: mode = 5

[2020-02-18 15:40:27] Finish.

创建的数据库状态如下：

[root@bd temp]# su - gbasedbt

[gbasedbt@bd ~]$ onstat -d

GBase 8s Database Server Version 12.10.FC4G1AEE -- On-Line -- Up 00:03:52 -- 508696 Kbytes

Dbspaces

address number flags fchunk nchunks pgsize flags owner name

49954028 1 0x70001 1 1 2048 N BA gbasedbt rootdbs

5adb79a8 2 0x70001 2 1 2048 N BA gbasedbt plogdbs

5adb7bd8 3 0x60001 3 1 2048 N BA gbasedbt llogdbs

5aeec028 4 0x42001 4 1 2048 N TBA gbasedbt tempdbs1

5aeec258 5 0x68001 5 1 2048 N SBA gbasedbt sbspace1

5aeec488 6 0x60001 6 1 2048 N BA gbasedbt datadbs1

 6 active, 2047 maximum

Chunks

address chunk/dbs offset size free bpages flags pathname

49954258 1 1 0 512000 501675 PO-B-D /opt/gbase/data/rootdbs

5aeed028 2 2 0 512000 11947 PO-B-D /opt/gbase/data/plogdbs

5aeee028 3 3 0 512000 11947 PO-B-D /opt/gbase/data/llogdbs

5aeef028 4 4 0 512000 511947 PO-B-- /opt/gbase/data/tempdbs1

5aef0028 5 5 0 512000 477465 477465 POSB-D /opt/gbase/data/sbspace1

 Metadata 34482 25659 34482

5aef1028 6 6 0 512000 511947 PO-BED /opt/gbase/data/datadbs1

 6 active, 32766 maximum

NOTE: The values in the "size" and "free" columns for DBspace chunks are

 displayed in terms of "pgsize" of the DBspace to which they belong.

Expanded chunk capacity mode: always

[gbasedbt@bd ~]$ onstat -g seg

GBase 8s Database Server Version 12.10.FC4G1AEE -- On-Line -- Up 00:04:19 -- 508696 Kbytes

Segment Summary:

id key addr size ovhd class blkused blkfree

1409038 52564801 44000000 77389824 1340216 R 18894 0

1441807 52564802 489ce000 524288000 6145704 V 75621 52379

1474576 52564803 67dce000 1125236736 1 B 274716 0

Total: - - 1726914560 - - 369231 52379

 (\* segment locked in memory)

No reserve memory is allocated

[gbasedbt@bd ~]$ onstat -g ntt

GBase 8s Database Server Version 12.10.FC4G1AEE -- On-Line -- Up 00:04:21 -- 508696 Kbytes

global network information:

 #netscb connects read write q-free q-limits q-exceed alloc/max

 3/ 3 0 0 0 0/ 0 380/ 100 0/ 0 0/ -1

Individual thread network information (times):

 netscb thread name sid open read write address

 4f5c7978 soctcplst 4 06:47:03 **192.168.0.4|9088|soctcp**

 4fdca620 soctcppoll 3 06:47:03

 4f5c7620 soctcppoll 2 06:47:03