

数据库

用户名	密码	database	访问	端口	其他
boxagent	Box_0_agent	agent	允许指定IP进行远程访问	3306(默认)	代理
boxapp	Box_0_app	boxapp	允许指定IP进行远程访问	3306(默认)	APP服务

用户创建：

```
1
2  -- 代理用户以及database的创建
3  -- database create
4  CREATE DATABASE IF NOT EXISTS boxagent
5      DEFAULT CHARSET utf8
6      COLLATE utf8_general_ci;
7
8  -- user create
9  CREATE USER `root`@`yourIP` IDENTIFIED BY 'Box_0_agent';
10 -- database user grant
11 GRANT Alter, Alter Routine, Create, Create Routine, Create Temporary
    Tables, Create View, Delete, Drop, Event, Execute, Grant Option, Index,
    Insert, Lock Tables, References, Select, Show View, Trigger, Update ON
    `boxagent`.* TO `boxagent`@`yourIP`;
12
13
14 -- app服务用户以及database的创建
15 -- database add
16 CREATE DATABASE IF NOT EXISTS boxapp
17     DEFAULT CHARSET utf8
18     COLLATE utf8_general_ci;
19 -- user add
20 CREATE USER `boxapp`@`yourIP` IDENTIFIED BY 'Box_0_app';
21 -- database user grant
22 GRANT ALTER, ALTER ROUTINE, CREATE, CREATE ROUTINE, CREATE TEMPORARY
    TABLES, CREATE VIEW, DELETE, DROP, EVENT, EXECUTE, GRANT OPTION, INDEX,
    INSERT, LOCK TABLES, REFERENCES, SELECT, SHOW VIEW, TRIGGER, UPDATE ON
    `boxapp`.* TO `boxapp`@`yourIP`;
23
```

代理数据表的创建

操作步骤：

```
1 #1, 登录mysql
2 $mysql -u root -p
3 #2, 切换db
4 $mysql>USE boxagent;
5 #3, 更新数据库
6 $mysql>source [path]/agent_table_init.sql
7
```

sql文件：agent_table_init.sql -- [https://github.com/boxproject/agent/blob/master/db_table.sql]

```
1  -- table create
2
3  SET NAMES utf8mb4;
4  SET FOREIGN_KEY_CHECKS = 0;
5
6  -----
7  -- Table structure for `T_HASH`
8  -----
9  DROP TABLE IF EXISTS `T_HASH`;
10 CREATE TABLE `T_HASH` (
11   `hash` varchar(100) NOT NULL COMMENT '模版id',
12   `app_id` varchar(20) NOT NULL DEFAULT '' COMMENT '员工id',
13   `captain_id` varchar(60) DEFAULT NULL COMMENT '私钥id',
14   `name` varchar(100) NOT NULL DEFAULT '' COMMENT '模板名称',
15   `flow` text NOT NULL COMMENT '原始数据',
16   `sign` text NOT NULL COMMENT '签名',
17   `status` varchar(2) NOT NULL DEFAULT '' COMMENT '状态',
18   `create_time` datetime NOT NULL COMMENT '创建时间',
19   `update_time` timestamp NULL DEFAULT NULL ON UPDATE CURRENT_TIMESTAMP
20   COMMENT '更新时间',
21   PRIMARY KEY (`hash`)
22 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
23
24 -----
25 -- Table structure for `T_HASH_OPERATE`
26 -----
27 DROP TABLE IF EXISTS `T_HASH_OPERATE`;
28 CREATE TABLE `T_HASH_OPERATE` (
29   `id` int(20) NOT NULL AUTO_INCREMENT COMMENT 'hash序列',
30   `app_id` varchar(20) NOT NULL DEFAULT '' COMMENT '私钥id',
31   `type` varchar(20) NOT NULL DEFAULT '' COMMENT '操作类型',
32   `hash` varchar(100) NOT NULL DEFAULT '',
```

```

32     `option` varchar(255) NOT NULL DEFAULT '' COMMENT '审批状态',
33     `sign` text NOT NULL COMMENT '签名',
34     `create_time` datetime NOT NULL,
35     PRIMARY KEY (`id`)
36 ) ENGINE=InnoDB AUTO_INCREMENT=28 DEFAULT CHARSET=utf8;
37
38 -----
39 -- Table structure for `T_REGIST`
40 -----
41 DROP TABLE IF EXISTS `T_REGIST`;
42 CREATE TABLE `T_REGIST` (
43     `reg_id` varchar(100) NOT NULL COMMENT '注册id',
44     `applyer_id` varchar(100) NOT NULL DEFAULT '' COMMENT '员工id',
45     `captain_id` varchar(100) NOT NULL DEFAULT '' COMMENT '私钥id',
46     `applyer_account` varchar(100) NOT NULL DEFAULT '' COMMENT '申请人账
号',
47     `msg` text NOT NULL COMMENT '信息',
48     `consent` varchar(255) NOT NULL DEFAULT '',
49     `cipher_text` varchar(255) NOT NULL DEFAULT '',
50     `status` varchar(255) NOT NULL DEFAULT '' COMMENT '状态',
51     `pub_key` text NOT NULL COMMENT '公钥',
52     `create_time` datetime NOT NULL COMMENT '创建时间',
53     `update_time` timestamp NULL DEFAULT NULL ON UPDATE CURRENT_TIMESTAMP
COMMENT '更新时间',
54     PRIMARY KEY (`reg_id`)
55 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
56
57 -----
58 -- Table structure for `T_REQ_LOG`
59 -----
60 DROP TABLE IF EXISTS `T_REQ_LOG`;
61 CREATE TABLE `T_REQ_LOG` (
62     `id` bigint(20) NOT NULL AUTO_INCREMENT,
63     `req_type` varchar(255) NOT NULL DEFAULT '',
64     `transfer_type` varchar(255) NOT NULL DEFAULT '',
65     `block_number` bigint(20) NOT NULL DEFAULT '0',
66     `hash` varchar(255) NOT NULL DEFAULT '',
67     `wd_hash` varchar(255) NOT NULL DEFAULT '',
68     `tx_hash` varchar(255) NOT NULL DEFAULT '',
69     `amount` varchar(255) NOT NULL DEFAULT '',
70     `fee` varchar(255) NOT NULL DEFAULT '',
71     `from` varchar(255) NOT NULL DEFAULT '',
72     `to` varchar(255) NOT NULL DEFAULT '',
73     `category` bigint(20) NOT NULL DEFAULT '0',
74     `content` varchar(255) NOT NULL DEFAULT '',
75     `status` varchar(255) NOT NULL DEFAULT '',
76     `apply_time` datetime NOT NULL,
77     `create_time` datetime NOT NULL,
78     PRIMARY KEY (`id`)

```

```

79 ) ENGINE=InnoDB AUTO_INCREMENT=2 DEFAULT CHARSET=utf8;
80
81 -----
82 -- Table structure for `T_WITHDRAW`
83 -----
84 DROP TABLE IF EXISTS `T_WITHDRAW`;
85 CREATE TABLE `T_WITHDRAW` (
86   `wd_hash` varchar(100) NOT NULL COMMENT '提现id',
87   `hash` varchar(100) NOT NULL DEFAULT '' COMMENT '审批id',
88   `to` varchar(60) NOT NULL DEFAULT '' COMMENT '转账地址',
89   `amount` varchar(40) NOT NULL DEFAULT '' COMMENT '转账金额',
90   `fee` varchar(40) NOT NULL DEFAULT '' COMMENT '手续费',
91   `category` int(3) NOT NULL DEFAULT '0' COMMENT '币种编号',
92   `flow` text NOT NULL COMMENT '原始数据',
93   `sign` text NOT NULL COMMENT '签名',
94   `status` varchar(2) NOT NULL DEFAULT '' COMMENT '提现状态',
95   `app_id` varchar(20) NOT NULL DEFAULT '' COMMENT '员工id',
96   `wd_flow` text NOT NULL,
97   `create_time` datetime NOT NULL COMMENT '创建时间',
98   PRIMARY KEY (`wd_hash`)
99 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
100
101 SET FOREIGN_KEY_CHECKS = 1;
102

```

APP服务数据表的创建

操作步骤：

```

1 #1, 登录mysql
2 $mysql -u root -p
3 #2, 切换db
4 $mysql>USE boxapp;
5 #3, 更新数据库
6 $mysql>source [path]/appserver_table_init.sql

```

sql文件: appserver_table_init.sql <https://github.com/boxproject/box-appServer/blob/master/scripts/box.sql>

```

1 -- table create
2 SET NAMES utf8mb4;
3 SET FOREIGN_KEY_CHECKS = 0;
4
5 #注册申请记录

```

```

6 drop table if exists `tb_registration_history`;
7 CREATE TABLE `tb_registration_history` (
8     id int(10) PRIMARY KEY AUTO_INCREMENT
          comment '自增ID, 主键'
9     , regID varchar(40) NOT NULL
          comment 'UUID'
10    , applyer varchar(20) NOT NULL
          comment '申请者'
11    , captain varchar(20) NOT NULL
          comment '直属上级'
12    , applyerAcc varchar(20) NOT NULL
          comment '申请者账号'
13    , msg varchar(1000) NOT NULL
          comment '注册信息'
14    , isDeleted tinyint(1) NOT NULL DEFAULT 0
          comment '该条记录是否被删除'
15    , consent varchar(10) NOT NULL DEFAULT 0
          comment '上级审批结果 1拒绝 2同意'
16    , createdAt timestamp NOT NULL DEFAULT
CURRENT_TIMESTAMP comment '申请创建时间'
17 )ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;
18
19 #用户帐号
20 drop table if exists `tb_accounts_info`;
21 CREATE TABLE `tb_accounts_info` (
22     id int(10) PRIMARY KEY AUTO_INCREMENT
          comment '账号ID'
23    , regID varchar(40) NOT NULL
          comment '对应的注册申请表ID'
24    , appAccountID varchar(20) NOT NULL
          comment 'app端记录的账号ID'
25    , account varchar(20) NOT NULL
          comment '帐号'
26    , pubKey varchar(1000) NOT NULL DEFAULT ''
          comment '公钥'
27    , enPubKey varchar(1000) NULL DEFAULT NULL
          comment '上级对下级公钥的加密信息'
28    , cipherText varchar(100) NULL DEFAULT NULL
          comment '上级对该账号公钥生成的信息摘要'
29    , isDepartured tinyint(1) NOT NULL DEFAULT 0
          comment '是否离职'
30    , lft int(10) NOT NULL
          comment '左值'
31    , rgt int(10) NOT NULL
          comment '右值'
32    , isUploaded tinyint(1) NOT NULL DEFAULT 0
          comment '该账户公钥是否已发送至根节点账户'
33    , depth int(10) NOT NULL
          comment '该账号所处的节点深度'

```

```

34 , createdAt          timestamp NOT NULL DEFAULT
CURRENT_TIMESTAMP      comment '帐号创建时间'
35 , updatedAt          timestamp NULL DEFAULT NULL
          comment '更新时间'
36 )ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;
37 #更新tb_accounts_info的 updatedAt
38 drop trigger if exists trg_accounts_info_update;
39 CREATE TRIGGER `trg_accounts_info_update` BEFORE UPDATE ON
`tb_accounts_info` FOR EACH ROW set new.updatedAt=CURRENT_TIMESTAMP;
40
41 #转账申请记录
42 drop table if exists `tb_transfer`;
43 CREATE TABLE `tb_transfer` (
44   id                  bigint(20) PRIMARY KEY AUTO_INCREMENT
          comment '自增ID'
45 , orderNum           varchar(40) NOT NULL
          comment '转账记录ID'
46 , txInfo             varchar(100) NULL DEFAULT NULL
          comment '订单信息'
47 , transBoxHash       varchar(100) NULL
          comment 'transBox上链的哈希值'
48 , applyerID          varchar(20) NOT NULL
          comment '申请员工帐号ID'
49 , currencyID         int(10) NOT NULL
          comment '交易币种ID'
50 , amount             varchar(10) NOT NULL
          comment '转账金额'
51 , flowID             bigint(10) NOT NULL DEFAULT 1
          comment '对应于哪个业务结构'
52 , progress           tinyint(1) NOT NULL DEFAULT 0
          comment '最终审批意见, 0待审批 1审批中 2驳回 3审批同意'
53 , txID              varchar(100) NULL DEFAULT NULL
          comment '对应公链的txid'
54 , applyContent       varchar(1000) NOT NULL
          comment '申请者提交的转账信息'
55 , applyerSign        varchar(1000) NOT NULL
          comment '申请者对该笔转账申请的签名'
56 , arrived           tinyint(1) NOT NULL DEFAULT 0
          comment '是否到账 1-打包中 2-到账'
57 , createdAt          timestamp NOT NULL DEFAULT
CURRENT_TIMESTAMP      comment '申请创建时间'
58 , updatedAt          timestamp NULL DEFAULT NULL
          comment '更新时间'
59 )ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;
60 #更新tb_transfer的 updatedAt
61 drop trigger if exists trg_transfer_update;
62 CREATE TRIGGER `trg_transfer_update` BEFORE UPDATE ON `tb_transfer` FOR
EACH ROW set new.updatedAt=CURRENT_TIMESTAMP;
63

```

```

64 #审批转账记录
65 drop table if exists `tb_review_transfer`;
66 CREATE TABLE `tb_review_transfer` (
67     transID                bigint(20) NOT NULL
68                             comment '转账申请表的ID'
69 , managerAccID            int(10) NOT NULL
70                             comment '账号ID'
71 , comments                 tinyint(1) NOT NULL DEFAULT 0
72                             comment '审批意见, 1驳回 2审批同意'
73 , sign                    varchar(1000) NULL DEFAULT NULL
74                             comment '审批者签名'
75 , createdAt               timestamp NOT NULL DEFAULT
76     CURRENT_TIMESTAMP      comment '审批创建时间'
77 )ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;
78
79 #币种配置列表
80 drop table if exists `tb_currency`;
81 CREATE TABLE `tb_currency` (
82     id                     int(10) PRIMARY KEY
83                             comment '自增ID'
84 , currency                 varchar(10) NOT NULL
85                             comment '充值地址'
86 , factor                  varchar(100) NULL DEFAULT NULL
87                             comment '货币转换因子'
88 , balance                 varchar(20) NOT NULL DEFAULT 0
89                             comment '余额'
90 , isToken                 tinyint(1) NOT NULL DEFAULT 0
91                             comment '是否是代币'
92 , address                 varchar(66) NULL
93                             comment '充值地址'
94 , available               tinyint(1) NOT NULL DEFAULT 1
95                             comment '该币种是否可用'
96 , updatedAt               timestamp NULL DEFAULT CURRENT_TIMESTAMP
97                             comment '充值时间'
98 )ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;
99 BEGIN;
100 INSERT INTO `tb_currency` VALUES (1, 'ETH', 18, '0', 0, null, 1,
101     CURRENT_TIMESTAMP);
102 COMMIT;
103
104 #审批业务结构
105 drop table if exists `tb_business_flow`;
106 CREATE TABLE `tb_business_flow` (
107     id                     bigint(20) PRIMARY KEY AUTO_INCREMENT
108                             comment '自增ID'
109 , flowID                  varchar(40) NOT NULL
110                             comment '业务流ID'
111 , flowHash                varchar(100) NULL DEFAULT NULL
112                             comment '上链哈希值'

```

```

96 , flowName                varchar(100) NOT NULL
                                comment '业务结构名称'
97 , founderID              int(10) NOT NULL
                                comment '创建者账号ID'
98 , founderSign            varchar(1000) NOT NULL
                                comment '创建者对模板内容的签名'
99 , content                text
                                comment '业务结构内容'
100 , singleLimit            varchar(10) NOT NULL
                                comment '单笔转账限额'
101 , progress               tinyint(1) NOT NULL DEFAULT 0
                                comment '审批流模板审批进度 0待审批 2审批拒绝 3审批通过'
102 , createdAt              timestamp NOT NULL DEFAULT
CURRENT_TIMESTAMP            comment '业务结构创建时间'
103 , updatedAt              timestamp NULL DEFAULT NULL
                                comment '审批更新时间'
104 -- , updatedAt            timestamp NULL DEFAULT NULL ON UPDATE
CURRENT_TIMESTAMP            comment '审批更新时间'
105 )ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;
106 #更新tb_business_flow的 updatedAt
107 drop trigger if exists trg_business_flow_update;
108 CREATE TRIGGER `trg_business_flow_update` BEFORE UPDATE ON
`tb_business_flow` FOR EACH ROW set new.updatedAt=CURRENT_TIMESTAMP;
109
110 #充值记录表
111 drop table if exists `tb_deposit_history`;
112 CREATE TABLE `tb_deposit_history` (
113   id                        bigint(20) PRIMARY KEY AUTO_INCREMENT
                                comment '充值记录ID, 主键'
114 , orderNum                 varchar(50) NOT NULL
                                comment '订单号'
115 , fromAddr                 varchar(66) NOT NULL
                                comment '付款方地址'
116 , toAddr                   varchar(66) NOT NULL
                                comment '收款方地址'
117 , currencyID              int(10) NOT NULL
                                comment '币种ID'
118 , amount                   varchar(100) NULL DEFAULT NULL
                                comment '充值金额'
119 , txID                     varchar(100) NULL DEFAULT NULL
                                comment '对应公链的txid'
120 , updatedAt                timestamp NULL DEFAULT CURRENT_TIMESTAMP
                                comment '充值时间'
121 )ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;

```