# 6.RPC服务开发

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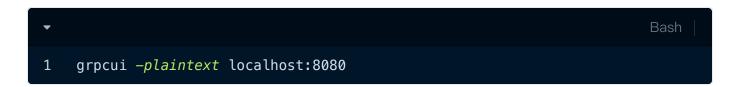
# 1.安装rpc测试工具

官网链接: https://github.com/fullstorydev/grpcui

### 1.1安装



### 1.2 使用



# 2.user模块

### 2.1 user.proto

▼ user.proto Go

```
syntax = "proto3";
 1
 2
 3
    package user;
 4
 5
    option go_package = "./user";
6
 7
    // Login
8 message loginRequest {
        string username = 1;
         string password = 2;
10
11
12 message loginResponse {
        string message = 1;
        int64 \ userID = 2;
14
15
        string username = 3;
    }
16
    // Login
17
18
    // UpdateUserInfo
19
20 message updateUserInfoRequest {
21
        string password = 1;
22
        string realName = 2;
23
        string phoneNumber = 3;
24
        int64 departmentId = 4;
25
        string email = 5;
26
        string jenkinsAccount = 6;
27
        string jenkinsPassword = 7;
28
        string avatar = 8;
29
        int64 id = 9;
30
    }
31 message updateUserInfoResponse {
32
        string message = 1;
33
34
35 message userInfo {
        int64 \ userID = 1;
36
37
        string username = 2;
38
     }
39 message userListRequest {
41 message userListResponse {
42
        repeated userInfo userList = 1;
43
44
45
```

```
// UserDetail
46
     message userDetailRequest {
48
         string username = 1;
49
50
     message userDetailResponse {
51
         int64 \ userID = 1;
52
         string username = 2;
53
         string realName = 3;
54
         string phoneNumber = 4;
55
         string departmentName = 5;
56
         string email = 6;
57
         string jenkinsAccount = 7;
58
         string isAdmin = 8;
59
60
     // UserDetail
61
     // AddUser
62 -
     message addUserRequest {
63
         string username = 1;
64
         string password = 2;
65
         string realName = 4;
66
         string phoneNumber = 5;
67
         int64 departmentId = 6;
68
         string email = 7;
69
         string jenkinsAccount = 8;
70
         string jenkinsPassword = 9;
71
         string avatar = 10;
72
         string isAdmin = 11;
73
74 -
     message addUserResponse {
75
         string message = 1;
76
         int64 \ userID = 2;
77
         string username = 3;
78
     }
79
80
     // AddUser
81
82
     // DelUser
83
     message delUserRequest {
84
         string username = 1;
85
86
     message delUserResponse {
87
         string message = 1;
88
         int64 \ userID = 2;
89
         string username = 3;
90
91
     // DelUser
92
93
     // Services
```

```
service User {
94
95
          rpc login(loginRequest) returns (loginResponse);
96
          rpc addUser(addUserRequest) returns (addUserResponse);
97
          rpc updateUserInfo(updateUserInfoRequest) returns (updateUserInfoResp
      onse);
98
          rpc userList(userListRequest) returns (userListResponse);
99
          rpc userDetail(userDetailRequest) returns (userDetailResponse);
100
          rpc delUser(delUserRequest) returns (delUserResponse);
101
102
      // Services
```

#### 2.2 生成RPC代码

```
Bash | 1 goctl rpc protoc user.proto --go_out=./ --go-grpc_out=./ --zrpc_out=.
```

#### 安装依赖

```
Bash | 1 go mod tidy
```

### 2.3 把默认etcd注册中心更换为consul

需要安装docker和docker-compose,并用docker启动一个consul服务 安装步骤见下面博客链接https://www.liwenzhou.com/posts/Go/consul/

修改user.yaml配置文件

```
YAML
    Name: user.rpc
1
2
    Mode: dev
    ListenOn: 0.0.0.0:8080
4
    # Etcd:
5
       Hosts:
    # - 127.0.0.1:2379
6
    # Key: user.rpc
8
    # 使用consul来作为注册中心
    Consul:
9
      Host: 127.0.0.1:8500
10
11
      Key: consul-user.rpc
```

修改 config.go文件

```
1
    package config
2
    import ("github.com/zeromicro/go-zero/zrpc"
3
4
             "github.com/zeromicro/zero-contrib/zrpc/registry/consul"
5
6
7 type Config struct {
8
         zrpc.RpcServerConf
9
10
11
         Consul consul Conf
12
     }
13
```

user.go文件中匿名导入consul,并进行服务注册

```
1
    package main
 2
3
    import (
4
         "flag"
         "fmt"
5
6
7
         "chatops-server/internal/user/rpc/internal/config"
8
         "chatops-server/internal/user/rpc/internal/server"
         "chatops-server/internal/user/rpc/internal/svc"
9
         "chatops-server/internal/user/rpc/user"
10
11
12
         "github.com/zeromicro/go-zero/core/conf"
13
         "github.com/zeromicro/go-zero/core/service"
14
         "github.com/zeromicro/go-zero/zrpc"
15
         "github.com/zeromicro/zero-contrib/zrpc/registry/consul"
         "github.com/zeromicro/zero-contrib/zrpc/registry/consul"
16
         "google.golang.org/grpc"
17
18
         "google.golang.org/grpc/reflection"
19
20
21
     var configFile = flag.String("f", "etc/user.yaml", "the config file")
22
23 func main() {
         flag.Parse()
24
25
26
         var c config.Config
27
         conf.MustLoad(*configFile, &c)
         ctx := svc.NewServiceContext(c)
28
29
         s := zrpc.MustNewServer(c.RpcServerConf, func(grpcServer *grpc.Server
30
     ) {
31
             user_RegisterUserServer(grpcServer, server_NewUserServer(ctx))
32
33 -
             if c.Mode == service.DevMode || c.Mode == service.TestMode {
34
                 reflection Register(grpcServer)
35
             }
         })
36
37
38
         // 将服务注册到consul
         consul.RegisterService(c.ListenOn, c.Consul)
39
         defer s.Stop()
40
41
         fmt.Printf("Starting rpc server at %s...\n", c.ListenOn)
42
43
         s.Start()
44
     }
```

#### 2.4 model代码生成

生成model层代码(不带缓存)

```
goctl model mysql datasource -url="chatops:Chatops_123@tcp(116.204.88.174:3
306)/chatops_server" -table="user" -dir=.
goctl model mysql datasource -url="chatops:Chatops_123@tcp(116.204.88.174:3
306)/chatops_server" -table="department" -dir=.
```

#### 2.5 数据库配置

user.yaml添加mysql配置()

```
YAML
 1
    Name: user.rpc
2
    Mode: dev
    ListenOn: 0.0.0.0:8080
    # Etcd:
5
        Hosts:
    # - 127.0.0.1:2379
7
        Key: user.rpc
8
    # 使用consul来作为注册中心
9
    Consul:
10
      Host: 127.0.0.1:8500
11
      Key: consul-user.rpc
12
    Mysql:
13
       DataSource: chatops:Chatops_123@tcp(116.204.88.174:3306)/chatops_server?
     charset=utf8mb4&parseTime=true&loc=Asia%2FShanghai
```

config.go 添加配置

```
package config
 1
2
3
    import (
        "github.com/zeromicro/go-zero/zrpc"
4
        "github.com/zeromicro/zero-contrib/zrpc/registry/consul"
5
6
8 type Config struct {
        zrpc.RpcServerConf
10
11
        Consul consul.Conf
12
13
14
        // mysql配置
        Mysql struct {
15
16
            DataSource string
        }
17
    }
18
19
```

servicecontext.go 添加配置

```
1
    package svc
2
3
    import (
4
         "chatops-server/internal/user/model"
5
         "chatops-server/internal/user/rpc/internal/config"
6
         "github.com/zeromicro/go-zero/core/stores/sqlx"
8
9
10 type ServiceContext struct {
11
         Config
                  config.Config
         UserModel model UserModel
12
13
                    sqlx.SqlConn
         Conn
    }
14
15
16 func NewServiceContext(c config.Config) *ServiceContext {
17
         conn := sqlx.NewMysql(c.Mysql.DataSource)
18
         return &ServiceContext{
19
             Config:
                       С,
             UserModel: model.NewUserModel(conn),
20
21
             Conn:
                         conn,
22
         }
23
    }
24
```

#### 2.6 日志配置

user.yaml 增加配置

```
YAML
    Name: user.rpc
    Mode: dev
    ListenOn: 0.0.0.0:10001
4
    # Etcd:
    # Hosts:
5
   # - 127.0.0.1:2379
    # Key: user.rpc
8
    # 使用consul来作为注册中心
    Consul:
9
      Host: 127.0.0.1:8500
10
11
      Key: consul-user.rpc
12
    Mysql:
13
      DataSource: chatops:Chatops_123@tcp(116.204.88.174:3306)/chatops_server?
    charset=utf8mb4&parseTime=true&loc=Asia%2FShanghai
14
    # 日志配置
15
    Log:
      ServiceName: "user-rpc"
16
17
      Mode: file
      Encoding: plain
18
      Path: /var/log/chatops-server
19
20
      Level: debug
21
      Stat: true
```

### 2.7 新增用户接口

adduserlogic.go 1 package logic 2 3 import ( 4 "context" 5 6 "chatops-server/internal/user/model" 7 "chatops-server/internal/user/rpc/internal/svc" 8 "chatops-server/internal/user/rpc/user" md5secret "chatops-server/pkg/md5Secret" 9 10 11 "github.com/zeromicro/go-zero/core/logx" 12 13 14 type AddUserLogic struct { 15 ctx context Context svcCtx \*svc.ServiceContext 16 17 logx.Logger 18 } 19 20 func NewAddUserLogic(ctx context.Context, svcCtx \*svc.ServiceContext) \*Add UserLogic { 21 return &AddUserLogic{ 22 ctx: ctx, 23 svcCtx: svcCtx, 24 Logger: logx.WithContext(ctx), 25 } } 26 27 28 func (l \*AddUserLogic) AddUser(in \*user.AddUserRequest) (\*user.AddUserResp onse, error) { 29 // 参数校验在apis层实现 30 // 加密密码 31 secret := l.svcCtx.Config.Secret 32 password := md5secret.MD5Secret(in.Password, secret) 33 // 将新增用户插入user表 userInfo := &model.User{ 34 35 Username: in Username, 36 Password: password, 37 RealName: in RealName, 38 PhoneNumber: in PhoneNumber, 39 in DepartmentId, DepartmentId: 40 Email: in Email, 41 JenkinsAccount: in JenkinsAccount, 42 JenkinsPassword: in.JenkinsPassword, // md5加密不可逆,该密码还要用于 登录Jenkins,所以不能加密

```
43
            Avatar:
                              in Avatar,
             IsAdmin:
                              in IsAdmin,
45
         }
46
         result, err := l.svcCtx.UserModel.Insert(l.ctx, userInfo)
47
         if err != nil {
48
             logx.Errorw("user.rpc.UserModel.Insert failed", logx.LogField{Key
     : "err", Value: err})
49
            return nil, err
50
51
         logx.Infow("user.rpc.UserModel.Insert success", logx.LogField{Key: "us
    ername", Value: in.Username})
52
53
         userID, _ := result.LastInsertId()
54
         return &user.AddUserResponse{
55
            Message: "ok",
56
            UserID:
                      userID,
57
            Username: in Username,
58
         }, nil
59
    }
60
```

### 2.8 删除用户接口

deluserlogic.go 1 package logic 2 3 import ( 4 "context" "errors" 5 6 "chatops-server/internal/user/rpc/internal/svc" 8 "chatops-server/internal/user/rpc/user" 9 "github.com/zeromicro/go-zero/core/logx" 10 11 "github.com/zeromicro/go-zero/core/stores/sqlx" 12 13 14 type DelUserLogic struct { 15 ctx context Context svcCtx \*svc.ServiceContext 16 17 logx.Logger 18 } 19 20 func NewDelUserLogic(ctx context.Context, svcCtx \*svc.ServiceContext) \*Del UserLogic { 21 return &DelUserLogic{ 22 ctx: ctx, 23 svcCtx: svcCtx, 24 Logger: logx.WithContext(ctx), 25 } } 26 27 28 func (l \*DelUserLogic) DelUser(in \*user.DelUserRequest) (\*user.DelUserResp onse, error) { // 先根据username来获取userID 29 userInfo, err := l.svcCtx.UserModel.FindOneByUsername(l.ctx, in.Userna 30 me) if errors.Is(err, sqlx.ErrNotFound) { 31 return nil, errors.New("用户不存在") 32 } 33 if err != nil { 34 35 logx.Errorw("user.rpc.UserModel.FindOneByUsername failed", logx.Lo gField{Key: "err", Value: err}) 36 return nil, err 37 } // 再根据用户userID删除用户 38

err = l.svcCtx.UserModel.Delete(l.ctx, userInfo.Id)

39

40 -

41

if err != nil {

```
logx.Errorw("user.rpc.UserModel.Delete failed", logx.LogField{Key
42
     : "err", Value: err})
43
            return nil, err
44
         }
45
         logx.Infow("user.rpc.UserModel.Delete success")
46
47
         return &user.DelUserResponse{
48
            Message: "ok",
49
            UserID: userInfo.Id,
50
            Username: in Username,
51
         }, nil
52
```

### 2.9 用户登录接口

loginlogic.go 1 package logic 2 3 import ( 4 "context" "errors" 5 6 7 "chatops-server/internal/user/rpc/internal/svc" "chatops-server/internal/user/rpc/user" 8 md5secret "chatops-server/pkg/md5Secret" 9 10 11 "github.com/zeromicro/go-zero/core/logx" "github.com/zeromicro/go-zero/core/stores/sqlx" 12 13 14 15 type LoginLogic struct { 16 ctx context.Context svcCtx \*svc.ServiceContext 17 18 logx.Logger 19 } 20 21 func NewLoginLogic(ctx context.Context, svcCtx \*svc.ServiceContext) \*Login Logic { 22 return &LoginLogic{ 23 ctx, ctx: 24 svcCtx: svcCtx, 25 Logger: logx.WithContext(ctx), 26 } } 27 28 29 func (l \*LoginLogic) Login(in \*user.LoginRequest) (\*user.LoginResponse, er ror) { 30 // 根据username查询password 和 userID 31 userInfo, err := l.svcCtx.UserModel.FindOneByUsername(l.ctx, in.Userna me) 32 if errors.Is(err, sqlx.ErrNotFound) { return nil, errors.New("用户不存在") 33 34 } 35 if err != nil { logx.Errorw("user.rpc.UserModel.FindOneByUsername failed", logx.Lo 36 gField{Key: "err", Value: err}) return nil, err 37 } 38 // 判断密码是否正确 39 40 // 用户传入的password加密后和数据库查出来的做比较

41

secret := l.svcCtx.Config.Secret

```
password := md5secret.MD5Secret(in.Password, secret)
42
        if password != userInfo.Password {
44
            return nil, errors.New("用户名或密码错误")
45
        }
46
47 -
        return &user.LoginResponse{
48
            Message: "ok",
49
            UserID: userInfo.Id,
50
            Username: userInfo.Username,
51
        }, nil
52
53
```

### 2.10 更新用户信息接口

```
1
    package logic
 2
 3
     import (
 4
         "context"
 5
 6
         "chatops-server/internal/user/model"
 7
         "chatops-server/internal/user/rpc/internal/svc"
 8
         "chatops-server/internal/user/rpc/user"
         md5secret "chatops-server/pkg/md5Secret"
 9
10
11
         "github.com/zeromicro/go-zero/core/logx"
12
13
14   type UpdateUserInfoLogic struct {
15
         ctx
                context Context
16
         svcCtx *svc.ServiceContext
17
         logx.Logger
18
     }
19
20 func NewUpdateUserInfoLogic(ctx context.Context, svcCtx *svc.ServiceContex
     t) *UpdateUserInfoLogic {
21
         return &UpdateUserInfoLogic{
22
             ctx:
                   ctx,
23
             svcCtx: svcCtx,
24
             Logger: logx.WithContext(ctx),
25
         }
     }
26
27
28 func (l *UpdateUserInfoLogic) UpdateUserInfo(in *user.UpdateUserInfoRegues
     t) (*user.UpdateUserInfoResponse, error) {
29
         // 更新用户信息
30
         // 新密码加密
31
         newPassword := md5secret.MD5Secret(in.Password, l.svcCtx.Config.Secret
         userInfoNew := &model.User{
32 -
33
             Id:
                              in Id,
34
             Password:
                              newPassword,
35
             RealName:
                              in RealName,
36
             PhoneNumber:
                              in PhoneNumber,
37
             DepartmentId:
                              in DepartmentId,
38
             Email:
                              in Email,
39
            JenkinsAccount: in JenkinsAccount,
40
             JenkinsPassword: in JenkinsPassword,
41
         }
42
         err := l.svcCtx.UserModel.Update(l.ctx, userInfoNew)
```

```
43
         if err != nil {
45
             logx.Errorw("user.rpc UserModel.Update failed", logx.LogField{Key
     : "err", Value: err})
46
             return nil, err
47
48
         return &user.UpdateUserInfoResponse{
49
            Message: "ok",
50
         }, nil
51
     }
52
```

### 2.11 获取用户列表

由于自动生成的model代码没有对应的查询语句,需要执行原生sql 修改servicecontext.go 配置

servicecontext.go 1 package svc 2 3 import ( 4 "chatops-server/internal/user/model" 5 "chatops-server/internal/user/rpc/internal/config" 6 "github.com/zeromicro/go-zero/core/stores/sqlx" 8 9 10 type ServiceContext struct { 11 Config config.Config UserModel model UserModel 12 13 DepartmentModel model.DepartmentModel 14 Conn sqlx.SqlConn } 15 16 17 func NewServiceContext(c config.Config) \*ServiceContext { 18 conn := sqlx.NewMysql(c.Mysql.DataSource) 19 20 return &ServiceContext{ 21 Config: С, 22 UserModel: model NewUserModel(conn), DepartmentModel: model.NewDepartmentModel(conn), 23 24 Conn: conn, } 25 } 26 27

userlistlogic.go 1 package logic 2 3 import ( 4 "context" "errors" 5 6 7 "chatops-server/internal/user/rpc/internal/svc" 8 "chatops-server/internal/user/rpc/user" 9 "github.com/zeromicro/go-zero/core/logx" 10 11 "github.com/zeromicro/go-zero/core/stores/sqlx" 12 13 14 type UserListLogic struct { 15 ctx context Context 16 svcCtx \*svc.ServiceContext 17 logx.Logger 18 } 19 20 func NewUserListLogic(ctx context.Context, svcCtx \*svc.ServiceContext) \*Us erListLogic { 21 return &UserListLogic{ 22 ctx: ctx, 23 svcCtx: svcCtx, Logger: logx.WithContext(ctx), 24 25 } } 26 27 28 type userDbInfo struct { int64 `db:"id"` 29 ΙD Username string `db:"username"` 30 31 } 32 33 func (l \*UserListLogic) UserList(in \*user.UserListRequest) (\*user.UserList Response, error) { 34 // 查询用户信息 35 // 由于自动生成的model代码没有对应的查询语句,需要执行原生sql var userListFromDb []userDbInfo 36 querySQL := `select id, username from user;` 37 err := l.svcCtx.Conn.QueryRowsCtx(l.ctx, &userListFromDb, querySQL) 38 if errors.Is(err, sqlx.ErrNotFound) { 39 logx.Errorw("user.rpc.Conn.Exec failed", logx.LogField{Key: "err" 40

, Value: sqlx.ErrNotFound.Error()})

41 42

}

return nil, errors.New("查询用户列表失败")

```
43
         if err != nil {
             logx.Errorw("user.rpc.Conn.Exec failed", logx.LogField{Key: "err"
     , Value: err})
45
             return nil, err
46
47
         logx.Infow("user.rpc.Conn.Exec success")
48
         var userList []*user.UserInfo
49
         for _, userFromDb := range userListFromDb {
50
             userResponse := user.UserInfo{
51
                UserID:
                          userFromDb.ID,
52
                 Username: userFromDb.Username,
53
54
             userList = append(userList, &userResponse)
55
56
         return &user.UserListResponse{
57
             UserList: userList,
58
         }, nil
59
60
```

# 3.system模块

### 3.1 system.proto

```
syntax = "proto3";
1
 2
3
    package system;
4
5
    option go_package = "./system";
6
    // SystemDetailInfo
8 message systemDetailInfoRequest {
9
10 message systemDetailInfoResponse {
        int64 detectDuration = 1;  // 探测钉钉群组时间间隔
11
12
        int64 historyDurantion = 2; // task历史保留时间
13
    }
14
    // SystemDetailInfo
15
16
    // UpdateSystemInfo
17 message updateSystemInfoReguest {
        int64 detectDuration = 1;  // 探测钉钉群组时间间隔
18
19
        int64 historyDurantion = 2; // task历史保留时间
20
    }
21 message updateSystemInfoResponse {
22
        string message = 1;
23
    }
24
    // UpdateSystemInfo
25
26
    // SecretDetailInfo
27 message secretDetailInfoRequest {
28
29 message secretDetailInfoResponse {
        string message = 1;
30
31
        string agentID = 2;
32
        string appKey = 3;
        string appSecret = 4;
33
34
35
    // SecretDetailInfo
36
37
    // UpdateSecretInfo
38 message updateSecretInfoReguest {
39
        string agentID = 1;
40
        string appKey = 2;
41
        string appSecret = 3;
42
        string name = 4;
43
44 message updateSecretInfoResponse {
45
        string message = 1;
```

```
// UpdateSecretInfo
48
49
50 -
     service System {
51
         rpc systemDetailInfo(systemDetailInfoRequest) returns(systemDetailInfo
     Response);
52
         rpc updateSystemInfo(updateSystemInfoRequest) returns(updateSystemInfo
     Response);
53
         rpc secretDetailInfo(secretDetailInfoRequest) returns(secretDetailInfo
     Response);
54
         rpc updateSecretInfo(updateSecretInfoRequest) returns(updateSecretInfo
55
56
```

rpc代码生成和model代码生成和user模块一致,数据库/日志/注册中心等也一致,参考user层进行配置即可,下面的其他模块不再进行赘述

### 3.1 获取系统配置详情接口

```
1
    package logic
 2
 3
     import (
4
        "context"
5
         "errors"
6
         "chatops-server/internal/system/rpc/internal/svc"
8
         "chatops-server/internal/system/rpc/system"
9
10
         "github.com/zeromicro/go-zero/core/logx"
         "github.com/zeromicro/go-zero/core/stores/sqlx"
11
12
13
14   type SystemDetailInfoLogic struct {
15
               context.Context
         ctx
         svcCtx *svc.ServiceContext
16
17
         logx.Logger
18
19
20 func NewSystemDetailInfoLogic(ctx context.Context, svcCtx *svc.ServiceCont
     ext) *SystemDetailInfoLogic {
21
         return &SystemDetailInfoLogic{
22
             ctx: ctx,
23
             svcCtx: svcCtx,
24
             Logger: logx.WithContext(ctx),
25
26
27
28 func (l *SystemDetailInfoLogic) SystemDetailInfo(in *system.SystemDetailIn
     foRequest) (*system.SystemDetailInfoResponse, error) {
         SystemInfo, err := l.svcCtx.SystemModel.FindOne(l.ctx, 1)
29
30
         if errors.Is(err, sqlx.ErrNotFound) {
             logx.Errorw("system.rpc.SystemModel.FindOne failed", logx.LogField
31
     {Key: "err", Value: err})
             return nil, errors.New("未查询到系统配置")
32
33
34
         logx.Infow("system.rpc.Conn.SystemModel.FindOne success")
35
        // 返回响应
36
         return &system.SystemDetailInfoResponse{
37
             DetectDuration:
                              SystemInfo.DetectDuration,
38
             HistoryDurantion: SystemInfo.HistoryDurantion,
39
        }, nil
40
41
```

# 3.3 修改系统配置接口

```
1
    package logic
 2
 3
     import (
4
         "context"
5
6
         "chatops-server/internal/system/model"
         "chatops-server/internal/system/rpc/internal/svc"
8
         "chatops-server/internal/system/rpc/system"
9
10
         "github.com/zeromicro/go-zero/core/logx"
11
12
13   type UpdateSystemInfoLogic struct {
14
         ctx
                context.Context
15
         svcCtx *svc.ServiceContext
16
         logx.Logger
17
18
19 func NewUpdateSystemInfoLogic(ctx context.Context, svcCtx *svc.ServiceCont
     ext) *UpdateSystemInfoLogic {
20
         return &UpdateSystemInfoLogic{
21
             ctx:
                    ctx,
22
             svcCtx: svcCtx,
23
             Logger: logx.WithContext(ctx),
24
25
26
27 func (l *UpdateSystemInfoLogic) UpdateSystemInfo(in *system.UpdateSystemIn
     foReguest) (*system.UpdateSystemInfoResponse, error) {
28
         // 更新系统设置
29
         updateSystemInfo := model.System{
30
                               1,
31
             DetectDuration:
                              in.DetectDuration,
32
             HistoryDurantion: in.HistoryDurantion,
33
34
         err := l.svcCtx.SystemModel.Update(l.ctx, &updateSystemInfo)
35
         if err != nil {
36
             logx.Errorw("system.rpc.SystemModel.Update failed", logx.LogField{
    Key: "err", Value: err})
37
             return nil, err
38
39
         logx.Infow("system.rpc.Conn.SystemModel.Update success")
40
41
         return &system.UpdateSystemInfoResponse{
42
             Message: "ok",
```

```
43 }, nil
45 }
```

# 3.4 获取密钥配置接口

```
1
    package logic
 2
 3
    import (
4
        "context"
         "errors"
5
6
 7
         "chatops-server/internal/system/rpc/internal/svc"
8
         "chatops-server/internal/system/rpc/system"
9
10
         "github.com/zeromicro/go-zero/core/logx"
         "github.com/zeromicro/go-zero/core/stores/sqlx"
11
12
13
14  type SecretDetailInfoLogic struct {
15
         ctx
               context Context
         svcCtx *svc.ServiceContext
16
17
         logx.Logger
18
    }
19
20 func NewSecretDetailInfoLogic(ctx context.Context, svcCtx *svc.ServiceCont
    ext) *SecretDetailInfoLogic {
21
        return &SecretDetailInfoLogic{
22
            ctx: ctx
23
            svcCtx: svcCtx,
24
            Logger: logx.WithContext(ctx),
25
        }
    }
26
27
28 func (l *SecretDetailInfoLogic) SecretDetailInfo(in *system.SecretDetailIn
     foRequest) (*system.SecretDetailInfoResponse, error) {
         // 从数据库获取机器人的密钥信息
29
        robotInfo, err := l.svcCtx.RobotModel.FindOne(l.ctx, 1)
30
31
        if errors.Is(err, sqlx.ErrNotFound) {
32
             logx.Errorw("system.rpc.RobotModel.FindOne failed", logx.LogField{
    Key: "err", Value: err})
            return nil, errors.New("未查找到机器人信息")
33
34
         }
35
         logx.Info("system.rpc.RobotModel.FindOne success")
36
37 -
         return &system.SecretDetailInfoResponse{
38
                       "ok",
            Message:
39
            AgentID:
                       robotInfo.AgentId,
40
            AppKey: robotInfo.Appkey,
            AppSecret: robotInfo.Appsecret,
41
42
         }, nil
```

3.5 修改密钥配置接口

```
1
    package logic
 2
3
    import (
4
         "context"
5
6
         "chatops-server/internal/system/model"
 7
         "chatops-server/internal/system/rpc/internal/svc"
8
         "chatops-server/internal/system/rpc/system"
9
10
         "github.com/zeromicro/go-zero/core/logx"
11
12
13  type UpdateSecretInfoLogic struct {
                context.Context
14
         ctx
15
         svcCtx *svc.ServiceContext
16
         logx Logger
17
     }
18
19 func NewUpdateSecretInfoLogic(ctx context.Context, svcCtx *svc.ServiceCont
     ext) *UpdateSecretInfoLogic {
20 -
         return &UpdateSecretInfoLogic{
21
             ctx:
                     ctx,
22
             svcCtx: svcCtx,
23
             Logger: logx.WithContext(ctx),
        }
24
25
    }
26
27 func (l *UpdateSecretInfoLogic) UpdateSecretInfo(in *system UpdateSecretIn
     foReguest) (*system.UpdateSecretInfoResponse, error) {
28
         // 更新密钥设置
29 -
         updateSecretInfo := model.Robot{
30
             Id:
                        1,
             Name:
31
                        in Name,
32
             Appkey:
                        in AppKey,
33
             Appsecret: in AppSecret,
34
             AgentId:
                        in.AgentID,
35
         }
         err := l.svcCtx.RobotModel.Update(l.ctx, &updateSecretInfo)
36
37
         if err != nil {
             logx.Errorw("system.rpc.RobotModel.Update failed", logx.LogField{K
38
     ey: "err", Value: err})
39
             return nil, err
40
41
         logx.Infow("system.rpc.Conn.RobotModel.Update success")
42
         return &system.UpdateSecretInfoResponse{
```

# 4.group模块

4.1 group.proto

```
1
    syntax = "proto3";
 2
 3
    package group;
 4
 5
    option go_package = "./group";
 6
 8
    // AddGroup
9 message addGroupRequest {
         string name = 1;
10
11
        string conversionID = 2;
12
13 message addGroupResponse {
14
         string message = 1;
15
16
    // AddGroup
17
18
    // DeleteGroup
19 message deleteGroupRequest {
20
         string name = 1;
21
22 message deleteGroupResponse {
23
        string message = 1;
24
     }
25
    // DeleteGroup
26
27
    // GroupList
28 message groupInfo {
29
         string name = 1;
30
         string conversionID = 2;
31
     }
32 message groupListRequest {
33
34 message groupListResponse {
35
         string message = 1;
         repeated groupInfo groupList = 2;
36
37
    }
38
39
40
    // GroupDetail
41 message groupDetailRequest {
42
         string name = 1;
43
44 message groupDetailResponse {
45
         string message = 1;
```

```
string name = 2;
46
         string conversionID = 3;
48
49
     // GroupDetail
50
51
52
     service Group {
53
         rpc AddGroup(addGroupRequest) returns(addGroupResponse);
54
         rpc DeleteGroup(deleteGroupRequest) returns(deleteGroupResponse);
55
         rpc GroupList(groupListRequest) returns(groupListResponse);
56
         rpc GroupDetail(groupDetailRequest) returns(groupDetailResponse);
57
58
59
```

### 4.2 增加群组

```
1
     package logic
 2
 3
     import (
 4
         "context"
         "errors"
 5
 6
 7
         "chatops-server/internal/group/model"
 8
         "chatops-server/internal/group/rpc/group"
         "chatops-server/internal/group/rpc/internal/svc"
 9
10
11
         "github.com/zeromicro/go-zero/core/logx"
12
13
14  type AddGroupLogic struct {
15
         ctx
               context Context
16
         svcCtx *svc.ServiceContext
17
         logx.Logger
18
     }
19
20 func NewAddGroupLogic(ctx context.Context, svcCtx *svc.ServiceContext) *Ad
     dGroupLogic {
21
         return &AddGroupLogic{
22
             ctx:
                    ctx,
23
             svcCtx: svcCtx,
24
             Logger: logx.WithContext(ctx),
25
         }
     }
26
27
28 func (1 *AddGroupLogic) AddGroup(in *group.AddGroupRequest) (*group.AddGro
     upResponse, error) {
29
         // 往数据库中插入新数据
30 -
         newGroup := model.Groups{
31
             Name:
                          in.Name,
32
             ConversionId: in.ConversionID,
         }
33
         _, err := l.svcCtx.GroupModel.Insert(l.ctx, &newGroup)
34
35
         if err != nil {
             logx.Errorw("group.rpc.GroupModel.Insert failed", logx.LogField{Ke
36
    y: "err", Value: err})
             return nil, errors.New("新增group失败")
37
38
         }
         // 返回响应
39
40
41
         return &group.AddGroupResponse{
42
             Message: "ok",
```

```
43 }, nil
44 }
```

# 4.3 删除群组

```
1
    package logic
 2
 3
    import (
 4
         "context"
 5
         "errors"
 6
 7
         "chatops-server/internal/group/rpc/group"
 8
         "chatops-server/internal/group/rpc/internal/svc"
 9
10
         "github.com/zeromicro/go-zero/core/logx"
         "github.com/zeromicro/go-zero/core/stores/sqlx"
11
12
13
14 type DeleteGroupLogic struct {
15
         ctx
               context Context
         svcCtx *svc.ServiceContext
16
17
         logx.Logger
18
    }
19
20 func NewDeleteGroupLogic(ctx context.Context, svcCtx *svc.ServiceContext)
     *DeleteGroupLogic {
21
         return &DeleteGroupLogic{
22
             ctx:
                    ctx,
23
             svcCtx: svcCtx,
24
            Logger: logx.WithContext(ctx),
25
         }
    }
26
27
28 func (l *DeleteGroupLogic) DeleteGroup(in *group.DeleteGroupReguest) (*gro
    up.DeleteGroupResponse, error) {
29
         // 根据name查出要删除的id
         delGroupInfo, err := l.svcCtx.GroupModel.FindOneByName(l.ctx, in.Name)
30
31
         if errors.Is(err, sqlx.ErrNotFound) {
             logx.Errorw("group.rpc.GroupModel.FindOneByName failed", logx.LogF
32 -
    ield{Key: "err", Value: err})
             return nil, errors.New("未查询到指定组")
33
34
         }
         // 根据id删除对应的组信息
35
         err = l.svcCtx.GroupModel.Delete(l.ctx, delGroupInfo.Id)
36
37
         if err != nil {
38
             logx.Errorw("group.rpc.GroupModel.Delete failed", logx.LogField{Ke
    y: "err", Value: err})
             return nil, errors.New("删除组失败")
39
40
41
         logx.Info("group.rpc.GroupModel.Delete success")
```

# 4.4 群组详情

```
1
     package logic
 2
 3
     import (
 4
         "context"
         "errors"
 5
 6
 7
         "chatops-server/internal/group/rpc/group"
 8
         "chatops-server/internal/group/rpc/internal/svc"
 9
         "github.com/zeromicro/go-zero/core/logx"
10
11
         "github.com/zeromicro/go-zero/core/stores/sqlx"
12
13
14  type GroupDetailLogic struct {
               context.Context
15
         ctx
16
         svcCtx *svc.ServiceContext
17
         logx.Logger
18
     }
19
20 func NewGroupDetailLogic(ctx context.Context, svcCtx *svc.ServiceContext)
     *GroupDetailLogic {
21 -
         return &GroupDetailLogic{
22
             ctx:
                   ctx,
23
             svcCtx: svcCtx,
24
             Logger: logx.WithContext(ctx),
25
         }
     }
26
27
28 func (l *GroupDetailLogic) GroupDetail(in *group.GroupDetailReguest) (*gro
     up.GroupDetailResponse, error) {
29
         // 根据name来查询group详情
         groupInfo, err := l.svcCtx.GroupModel.FindOneByName(l.ctx, in.Name)
30
31
         if errors.Is(err, sqlx.ErrNotFound) {
32
             logx.Errorw("group.rpc.GroupModel.FindOneByName failed", logx.LogF
     ield{Key: "err", Value: err})
             return nil, errors.New("未查询到指定组")
33
34
         }
35
36
         return &group.GroupDetailResponse{
37
             Message:
                           "ok",
                           groupInfo.Name,
38
             Name:
             ConversionID: groupInfo.ConversionId,
39
40
         }, nil
41
     }
42
```

# 4.5 群组列表

```
1
    package logic
 2
 3
    import (
4
        "context"
         "errors"
5
6
 7
         "chatops-server/internal/group/rpc/group"
8
         "chatops-server/internal/group/rpc/internal/svc"
9
         "github.com/zeromicro/go-zero/core/logx"
10
11
         "github.com/zeromicro/go-zero/core/stores/sqlx"
12
13
14   type GroupListLogic struct {
15
         ctx
               context Context
16
         svcCtx *svc.ServiceContext
17
         logx.Logger
18
    }
19
20 func NewGroupListLogic(ctx context.Context, svcCtx *svc.ServiceContext) *G
     roupListLogic {
21
         return &GroupListLogic{
22
             ctx: ctx,
23
            svcCtx: svcCtx,
24
            Logger: logx.WithContext(ctx),
25
        }
     }
26
27
28 type groupDbInfo struct {
29
                     string `db:"name"`
         ConversionID string `db:"conversion id"`
30
31
    }
32
33 func (l *GroupListLogic) GroupList(in *group.GroupListRequest) (*group.Gro
     upListResponse, error) {
34
        // 查询群组信息
35
         var groupListFromDb []groupDbInfo
         querySQL := "select name, conversion id from `groups`"
36
        err := l.svcCtx.Conn.QueryRowsCtx(l.ctx, &groupListFromDb, guerySQL)
37
        if errors.Is(err, sqlx.ErrNotFound) {
38
             logx.Errorw("group.rpc.Conn.QueryRowsCtx failed", logx.LogField{Ke
39 -
    y: "err", Value: sqlx.ErrNotFound.Error()})
             return nil, errors.New("查询群组列表失败")
40
41
42
        if err != nil {
```

```
logx.Errorw("group.rpc.Conn.QueryRowsCtx failed", logx.LogField{Ke
43
    y: "err", Value: err})
44
             return nil, err
45
46
         logx.Infow("group.rpc.Conn.QueryRowsCtx success")
47
         var groupList []*group.GroupInfo
48
         for _, groupFromDb := range groupListFromDb {
49
             groupResponse := group.GroupInfo{
50
                               groupFromDb Name,
51
                 ConversionID: groupFromDb.ConversionID,
52
             }
53
             groupList = append(groupList, &groupResponse)
54
         }
55
         return &group.GroupListResponse{
56
                       "ok",
             Message:
57
             GroupList: groupList,
58
         }, nil
59
60
```

## 5.task模块

### 5.1 task.proto

```
1
    syntax = "proto3";
2
3
    package task;
4
5
    option go_package = "./task";
6
    // AddTask
8 message addTaskRequest {
         string name = 1;
         string type = 2;
10
11
         int64 \ remoteID = 3;
12
         string script = 4;
13
         string jenkinsJobName = 5;
14
         string execParams = 6;
15
         int64 groupID = 7;
16
         int64 \ userID = 8;
17
18 message addTaskResponse {
         string message = 1;
19
20
    }
    // AddTask
21
22
    // DeleteTask
23
24 message deleteTaskRequest {
25
         string name = 1;
26
27 message deleteTaskResponse {
28
         string message = 1;
29
30
    // DeleteTask
31
32
    // UpdateTask
33 message updateTaskRequest {
34
         string name = 1;
35
         string type = 2;
36
         int64 remoteID = 3;
37
         string script = 4;
38
         string jenkinsJobName = 5;
39
         string execParams = 6;
40
         int64 \ groupID = 7;
41
         int64 \ userID = 8;
42
     }
43 message updateTaskResponse {
44
         string message = 1;
45
     }
```

```
46
        UpdateTask
48
     // TaskDetail
49
     message taskDetailRequest {
50
         string name = 1;
51
52
     message taskDetailResponse {
53
         string message = 1;
54
         string name = 2;
55
         string type = 3;
56
         int64 remoteID = 4;
57
         string script = 5;
58
         string jenkinsJobName = 6;
59
         string execParams = 7;
60
         string groupName = 8;
61
         string username = 9;
62
63
     // TaskDetail
64
65
    // TaskList
66
     message taskInfo {
67
         string name = 1;
68
         string type = 2;
69
         string groupName = 3;
70
         string username = 4;
71
72
     message taskListRequest {
73
74 -
     message taskListResponse {
75
         string message = 1;
76
         repeated taskInfo taskList = 2;
77
     }
78
     // TaskList
79
80
     // Services
81
     service Task {
82
         rpc addTask(addTaskReguest) returns(addTaskResponse);
83
         rpc deleteTask(deleteTaskReguest) returns(deleteTaskResponse);
84
         rpc updateTask(updateTaskRequest) returns(updateTaskResponse);
85
         rpc taskDetail(taskDetailRequest) returns(taskDetailResponse);
86
         rpc taskList(taskListRequest) returns(taskListResponse);
87
     }
88
     // Services
```

#### 5.2 增加task接口