文档

https://pkg.go.dev/go.uber.org/zap#section-readme

项目应用

使用的包:

"go.uber.org/zap"

"go.uber.org/zap/zapcore"

"github.com/natefinch/lumberjack"-- 用于编写Zap中的writer, 日志切割删除

核心函数:

zapcore.NewCore(getEncoder(), writer, level)

需要一个encoder编码器, writer,写入器, level表示日志级别

```
package core
2
   import (
3
       "fmt"
4
       "os"
       "time"
6
7
       "github.com/flipped-aurora/gin-vue-admin/server/global"
8
       "github.com/flipped-aurora/gin-vue-admin/server/utils"
9
       "go.uber.org/zap"
10
       "go.uber.org/zap/zapcore"
11
12
   func Zap() (logger *zap.Logger) {
       if ok, _ := utils.PathExists(global.GVA_CONFIG.Zap.Director); !ok { // 判断是否有
15
   Director文件夹
           fmt.Printf("create %v directory\n", global.GVA_CONFIG.Zap.Director)
16
           _ = os.Mkdir(global.GVA_CONFIG.Zap.Director, os.ModePerm)
17
18
       // 调试级别
19
       debugPriority := zap.LevelEnablerFunc(func(lev zapcore.Level) bool {
20
           return lev == zap.DebugLevel
21
       })
22
       // 日志级别
23
```

```
infoPriority := zap.LevelEnablerFunc(func(lev zapcore.Level) bool {
24
           return lev == zap.InfoLevel
25
       })
26
       // 警告级别
27
       warnPriority := zap.LevelEnablerFunc(func(lev zapcore.Level) bool {
28
           return lev == zap.WarnLevel
29
       })
       // 错误级别
       errorPriority := zap.LevelEnablerFunc(func(lev zapcore.Level) bool {
           return lev >= zap.ErrorLevel
       })
34
       cores := [...]zapcore.Core{
36
           getEncoderCore(fmt.Sprintf("./%s/server_debug.log",
   global.GVA_CONFIG.Zap.Director), debugPriority),
           getEncoderCore(fmt.Sprintf("./%s/server_info.log",
38
   global.GVA CONFIG.Zap.Director), infoPriority),
           getEncoderCore(fmt.Sprintf("./%s/server_warn.log",
   global.GVA_CONFIG.Zap.Director), warnPriority),
           getEncoderCore(fmt.Sprintf("./%s/server_error.log",
40
   global.GVA_CONFIG.Zap.Director), errorPriority),
       }
41
       logger = zap.New(zapcore.NewTee(cores[:]...), zap.AddCaller())
42
43
       if global.GVA CONFIG.Zap.ShowLine {
44
           logger = logger.WithOptions(zap.AddCaller())
45
46
       return logger
47
48
49
   // getEncoderConfig 获取zapcore.EncoderConfig
   func getEncoderConfig() (config zapcore.EncoderConfig) {
       config = zapcore.EncoderConfig{
           MessageKey:
                            "message",
                            "level",
           LevelKey:
54
                            "time",
           TimeKey:
                            "logger",
56
           NameKey:
                            "caller",
           CallerKey:
           StacktraceKey:
                            global.GVA_CONFIG.Zap.StacktraceKey,
           LineEnding:
                            zapcore.DefaultLineEnding,
           EncodeLevel:
                            zapcore.LowercaseLevelEncoder,
60
```

```
EncodeTime:
                           CustomTimeEncoder.
61
           EncodeDuration: zapcore.SecondsDurationEncoder,
62
           EncodeCaller:
                           zapcore.FullCallerEncoder,
63
64
       switch {
       case global.GVA CONFIG.Zap.EncodeLevel == "LowercaseLevelEncoder": // 小写编码器(默
   认)
           config.EncodeLevel = zapcore.LowercaseLevelEncoder
67
       case global.GVA CONFIG.Zap.EncodeLevel == "LowercaseColorLevelEncoder": // 小写编码
68
   器带颜色
           config.EncodeLevel = zapcore.LowercaseColorLevelEncoder
69
       case global.GVA CONFIG.Zap.EncodeLevel == "CapitalLevelEncoder": // 大写编码器
           config.EncodeLevel = zapcore.CapitalLevelEncoder
       case global.GVA_CONFIG.Zap.EncodeLevel == "CapitalColorLevelEncoder": // 大写编码器带
   颜色
73
           config.EncodeLevel = zapcore.CapitalColorLevelEncoder
       default:
74
           config.EncodeLevel = zapcore.LowercaseLevelEncoder
       return config
77
78
79
   // getEncoder 获取zapcore.Encoder
80
   func getEncoder() zapcore.Encoder {
       if global.GVA CONFIG.Zap.Format == "json" {
82
           return zapcore.NewJSONEncoder(getEncoderConfig())
83
84
       return zapcore.NewConsoleEncoder(getEncoderConfig())
86
87
   // getEncoderCore 获取Encoder的zapcore.Core
   func getEncoderCore(fileName string, level zapcore.LevelEnabler) (core zapcore.Core) {
89
       writer := utils.GetWriteSyncer(fileName) // 使用file-rotatelogs进行日志分割
90
       // 调用生成自定义ZapCore
       return zapcore.NewCore(getEncoder(), writer, level)
93
   // 自定义日志输出时间格式
95
  func CustomTimeEncoder(t time.Time, enc zapcore.PrimitiveArrayEncoder) {
```

utils.GetWriteSyncer(filename)部分

```
package utils
2
   import (
       "os"
4
       "github.com/flipped-aurora/gin-vue-admin/server/global"
6
       "github.com/natefinch/lumberjack"
7
       "go.uber.org/zap/zapcore"
8
9
10
   //@author: [SliverHorn](https://github.com/SliverHorn)
11
   //@function: GetWriteSyncer
   //@description: zap logger中加入file-rotatelogs
   //@return: zapcore.WriteSyncer, error
14
15
   func GetWriteSyncer(file string) zapcore.WriteSyncer {
       lumberJackLogger := &lumberjack.Logger{
17
                      file, // 日志文件的位置
          Filename:
18
          MaxSize:
                      10,
                            // 在进行切割之前,日志文件的最大大小(以MB为单位)
19
          MaxBackups: 200, // 保留旧文件的最大个数
20
                      30, // 保留旧文件的最大天数
          MaxAge:
21
                      true, // 是否压缩/归档旧文件
          Compress:
23
       }
24
       if global.GVA_CONFIG.Zap.LogInConsole {
25
          // 两个Writer
          return zapcore.NewMultiWriteSyncer(zapcore.AddSync(os.Stdout),
   zapcore.AddSync(lumberJackLogger))
28
       return zapcore.AddSync(lumberJackLogger)
30
31
```

替代原来Log

1 zap.ReplaceGlobals(global.GVA_LOG) // 替换zap包中全局的logger实例,后续在其他包中只需使用zap.L()调用即可