

```
package main
```

```
import (  
    "crypto/md5"  
    "fmt"  
    "io"  
    "os"  
  
    "github.com/go-redis/redis"  
)
```

```
var client *redis.Client
```

```
func init() {  
    if client == nil {  
        client = newClient()  
    }  
}
```

```
func newClient() *redis.Client {  
    client = redis.NewClient(&redis.Options{  
        Addr:    "127.0.0.1:6379",  
        Password: "",  
        //默认有16个数据库,在redis客户端使用select 2 切换  
        DB: 2,  
    })  
    return client  
}
```

```
const path = "E:\\201708\\20170807-20170813.md"  
const bufferKey = "md5hash"
```

```
func main() {  
    md5String, err := computeAndSaveMd5Hash(path)  
    if err != nil {
```

```
        return
    }
    boolValue := isExistBuffer(md5String)
    fmt.Println(boolValue)
}
```

//计算文件的hash并将hash存在redis中

```
func computeAndSaveMd5Hash(path string) (string, error) {
    md5String := getFileHash(path)
    fmt.Println(md5String)
    err := client.SAdd(bufferKey, md5String).Err()
    if err != nil {
        return md5String, err
    }
    return md5String, nil
}
```

//判断文件hash是否已经缓存

```
func isExistBuffer(md5String string) bool {
    isExist := false
    boolcmd := client.SIsMember(bufferKey, md5String)
    if boolcmd.Err() != nil {
        return isExist
    }
    isExist = boolcmd.Val()
    return isExist
}
```

// 计算文件哈希

```
func getFileHash(path string) string {
    file, err := os.Open(path)
    defer file.Close()
    if err != nil {
        return ""
    }
}
```

```
h := md5.New()
_, err = io.Copy(h, file)
if err != nil {
    return ""
}
return fmt.Sprintf("%x", h.Sum(nil))
}
```