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## **Client Adapters for Golang**

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Cc: keycloak-dev <keycloak-dev@lists.jboss.org>

Hello Bela,

what framework or library are you using in your Go Web App? The thing is, there is no such thing as a "single" Keycloak integration,

due to the myriads of web frameworks available for Go.

Of course most of them support a Servlet Filter like middleware pattern (as shown below) that could be implemented somewhat generic but in the end you probably need an integration that is custom to your framework.

I just started to adding support for Keycloak to https://github.com/stretchr/gomniauth but the library is missing a bit of functionality such as logout etc.

There is https://github.com/gambol99/keycloak-proxy where you could look for the OIDC protocol interaction create your own implementation.

Another option would be to just use an OIDC go client implementation like: https://github.com/coreos/go-oidc or https://github.com/ericchiang/oidc

```
Cheers,
Thomas
```

```
package main
import (
     "flag"
     "fmt"
     "github.com/gorilla/mux"
     "log"
     "net/http"
     "net/http/httputil"
     "os"
     "time"
)
var greeting string
func main() {
     flag.StringVar(&greeting, "g", "Hello", "The greeting message, defaults to 'Hello")
     flag.Parse()
     logger := *log.New(os.Stdout, "logger: ", log.Lshortfile)
     router := mux.NewRouter()
```

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```
router.Handle("/greet", http.HandlerFunc(greet))
     //for all routes apply the follwing list of handlers
     http.Handle("/", Adapt(router,
     WithLogger(&logger),
     WithRequestTracing(),
     WithHeaders(map[string]string{"foo": "42", "bar": "1337"}),
     ))
     http.ListenAndServe(":8080", nil)
}
// Adapter wraps an http.Handler with Additional functionality.
type Adapter func(http.Handler) http.Handler
// Adapt h with all specified adapters.
func Adapt(h http.Handler, adapters ...Adapter) http.Handler {
     // apply handler backwards so that they are executed in declared order
     for i := len(adapters) - 1; i >= 0; i -- {
     h = adapters[i](h)
     }
     return h
}
// curl -v http://localhost:8080/greet
func greet(w http.ResponseWriter, r *http.Request) {
     w.WriteHeader(http.StatusOK)
     fmt.Fprintf(w, greeting+" %v\n", time.Now().String())
}
func WithRequestTracing() Adapter {
     return func(h http.Handler) http.Handler {
     return http.HandlerFunc(func(w http.ResponseWriter, r *http.Request) {
     dump, err := httputil.DumpRequest(r, true)
     if err != nil {
     http.Error(w, fmt.Sprint(err), http.StatusInternalServerError)
     return
     }
     fmt.Printf("Request Dump:\n%q\n", dump)
     h.ServeHTTP(w, r)
     })
     }
}
func WithHeaders(headers map[string]string) Adapter {
     return func(h http.Handler) http.Handler {
     return http.HandlerFunc(func(w http.ResponseWriter, r *http.Request) {
     for key, value := range headers {
     w.Header().Add(key, value)
     }
```

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```
h.ServeHTTP(w, r)
    })
     }
}
func WithLogger(I *log.Logger) Adapter {
     return func(h http.Handler) http.Handler {
     return http.HandlerFunc(func(w http.ResponseWriter, r *http.Request) {
    I.Println(r.Method, r.URL.Path)
     h.ServeHTTP(w, r)
    })
     }
}
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```

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keycloak-dev mailing list

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https://lists.jboss.org/mailman/listinfo/keycloak-dev