



Iteratively Migrating an HTTP Service to Go and gRPC Using grpc-gateway and httputil.ReverseProxy

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NOT SURE IF HTTP SERVICE



OR GRPC BEHIND GRPC-GATEWAY

Options to migrate a service from HTTP to gRPC

- Everything but the browser
 - a. Modify clients to use gRPC
 - b. Use **grpc-gateway**; see below
- Browser (using **grpc-gateway**)
 - a. Modify clients to call new service per route as each required RPC is implemented
 - b. Modify clients to call new service for all routes once all required RPCs are implemented
 - c. New service proxies unimplemented routes to existing service

Proxy using `grpc-gateway` and `httputil.ReverseProxy`

```
reverseProxy := httputil.NewSingleHostReverseProxy(oldServiceURL)

runtime.OtherErrorHandler = func(w http.ResponseWriter, r *http.Request, msg string, code int) {
    if code != http.StatusNotFound && code != http.StatusMethodNotAllowed {
        runtime.DefaultOtherErrorHandler(w, r, msg, code)
        return
    }
}

reverseProxy.ServeHTTP(w, r)
}
```

<https://github.com/idubinskiy/http-to-grpc-gateway>

Demo

Thank you!