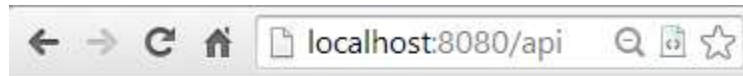
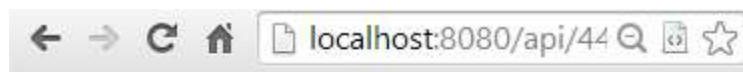


Mastering Go Web Services

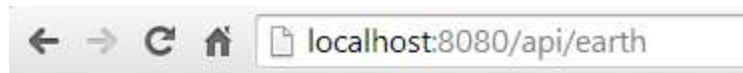
Chapter 1



```
{"Message": "Hello, world!"}
```



```
{"Message": "Hello, 44"}
```



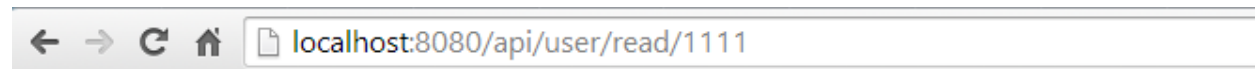
```
{"Message": "Hello, earth"}
```

social_network.users: 1 rows total (approximately)

🔑 user_id	🔑 user_nickname	user_first	user_last	user_email
5	nkozyra	Nathan	Kozyra	nathan@nathankozyra.com



```
{"ID": 5, "Name": "nkozyra", "Email": "nathan@nathankozyra.com", "First": "Nathan", "Last": "Kozyra"}
```



No such user

Chapter 2

```
▼ <Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">
  ▼ <Body xmlns="http://schemas.xmlsoap.org/soap/envelope/">
    ▼ <Response>
      <Temperature> 297.35 </Temperature>
    </Response>
  </Body>
</Envelope>
```



```
name: Bill Smith
email: bill.smith@example.com
id: 100
```



```
{"users":
  [{"ID":5, "Name":"nkozyra", "Email":"nathan@n
athankozyra.com", "First":"Nathan", "Last":"K
ozyra"}]}
```

Chapter 3

API Interface

That email already exists!

Create User

Email
nkozyra@gmail.com

Username
nkozyra

First Name
Nathan

Last Name
Kozyra

Create

```
PS C:\Users\nkozyra> curl http://localhost:8080/api/users --data "name=nkozyra&email=nkozyra@gmail.com&first=nathan&last=nathan"
{"Error":"Error 1062: Duplicate entry '' for key 'user_nickname'"}

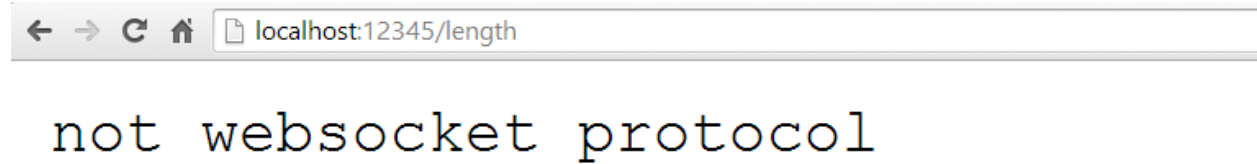
```

```
PS C:\Users\nkozyra> curl http://localhost:8080/api/users --d
om&first=nathan&last=kozyra" -v
* Adding handle: conn: 0x688268
* Adding handle: send: 0
* Adding handle: recv: 0
* Curl_addHandleToPipeline: length: 1
* - Conn 0 (0x688268) send_pipe: 1, recv_pipe: 0
* About to connect() to localhost port 8080 (#0)
* Trying ::1...
* Connected to localhost (::1) port 8080 (#0)
> POST /api/users HTTP/1.1
> User-Agent: curl/7.30.0
> Host: localhost:8080
> Accept: */*
> Content-Length: 61
> Content-Type: application/x-www-form-urlencoded
>
* upload completely sent off: 61 out of 61 bytes
< HTTP/1.1 409 Conflict
< Content-Type: text/plain; charset=utf-8
< Date: Wed, 23 Jul 2014 23:48:10 GMT
< Content-Length: 52
<
Conflict
{"Error":"Duplicate entry","ErrorCode":10}
* Connection #0 to host localhost left intact
PS C:\Users\nkozyra> _
```

```
nathan@ubuntu-01: /usr/lib/go/src
nathan@ubuntu-01: /usr/lib/go/src$ ls -l
total 76
-rwxr-xr-x  1 root root  402 Mar  2 19:57 all.bash
-rw-r--r--  1 root root  726 Mar  2 19:57 all.bat
-rwxr-xr-x  1 root root  362 Mar  2 19:57 clean.bash
-rw-r--r--  1 root root  531 Mar  2 19:57 clean.bat
drwxr-xr-x 28 root root 4096 May  1 11:08 cmd
drwxr-xr-x  4 root root 4096 May  1 11:08 lib9
drwxr-xr-x  2 root root 4096 May  1 11:08 libbio
drwxr-xr-x  2 root root 4096 May  1 11:08 libmach
-rwxr-xr-x  1 root root 5322 Mar  2 19:57 make.bash
-rw-r--r--  1 root root 3543 Mar  2 19:57 make.bat
-rw-r--r--  1 root root  553 Mar  2 19:57 Make.dist
drwxr-xr-x 41 root root 4096 Apr 30 16:58 pkg
-rwxr-xr-x  1 root root  956 Mar  2 19:57 race.bash
-rw-r--r--  1 root root 1323 Mar  2 19:57 race.bat
-rwxr-xr-x  1 root root 5430 Mar  2 19:57 run.bash
-rw-r--r--  1 root root 2741 Mar  2 19:57 run.bat
-rwxr-xr-x  1 root root  837 Mar  2 19:57 sudo.bash
```

```
Nathans-MacBook-Air:3 Nathan$ curl -X POST -H "Content-Type: application/json" -d '{"method":"StringService.Length","params":[{"Message":"Testing the service, how long is it?"}], "id":"1"}' http://localhost:10000/rpc
{"result":{"Message":"Your string is 36 characters long"},"error":null,"id":"1"}
Nathans-MacBook-Air:3 Nathan$
```

Chapter 4



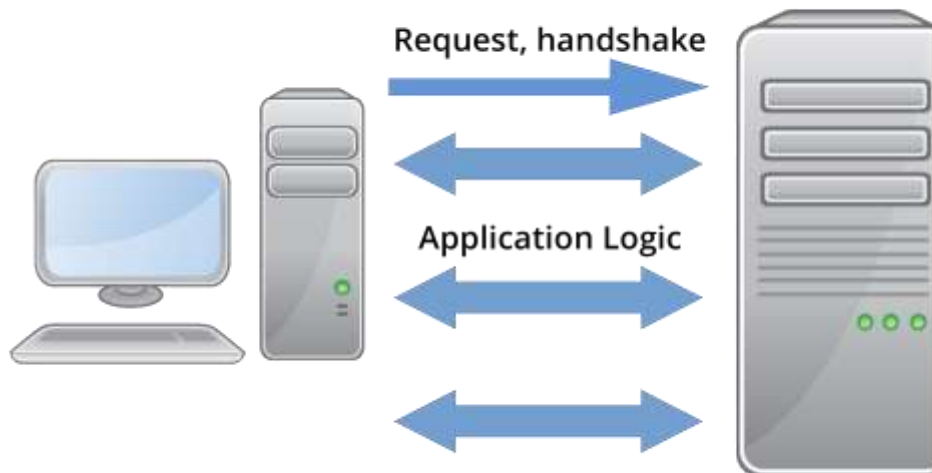
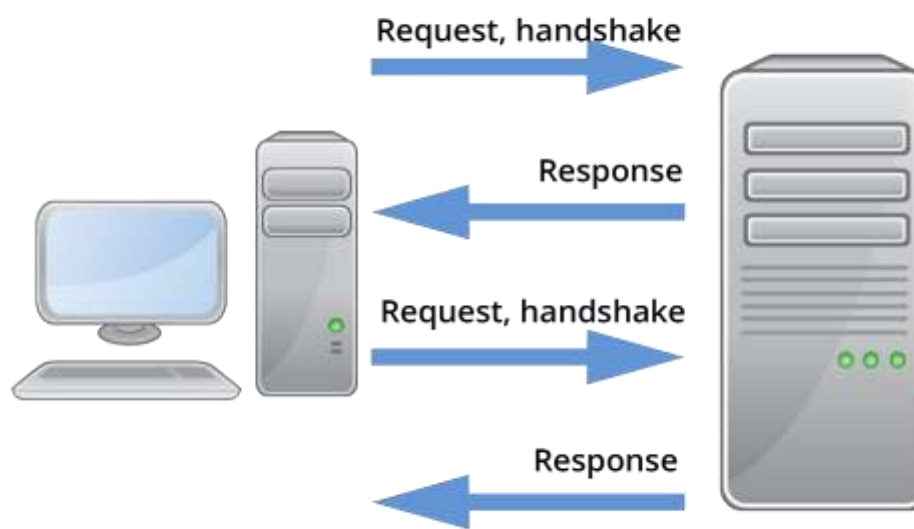
Your message

It was a dark and stormy night; the rain fell in torrents – except at occasional intervals, when it was checked by a violent gust of wind which swept up the streets (for it is in London that our scene lies), rattling along the housetops, and fiercely agitating the scanty flame of the lamps that struggled against the darkness.

Send

Close

Websocket counted 329 characters in your message



Chapter 5

```
> curl -I -X OPTIONS localhost:8080/api/users
HTTP/1.1 200 OK
Allow: DELETE,GET,HEAD,OPTIONS,POST,PUT
Date: Fri, 29 Aug 2014 20:31:55 GMT
Content-Length: 0
Content-Type: text/plain; charset=utf-8
```

localhost:8080/api/users? OPTIONS

Body **STATUS** 200 OK **TIME** 64 ms

```
1 [{"POST":{"description":"Create a user","parameters":
2 [{"Name":"Email","details":{"Type":"string","description":"A new
user's email address","Required":false}}]}, {"OPTIONS":
{"description":"This page","parameters":null}}]}
```



The site's security certificate is not trusted!

You attempted to reach **localhost**, but the server presented a certificate issued by an entity that is not trusted by your computer's operating system. This may mean that the server has generated its own security credentials, which Chrome cannot rely on for identity information, or an attacker may be trying to intercept your communications.

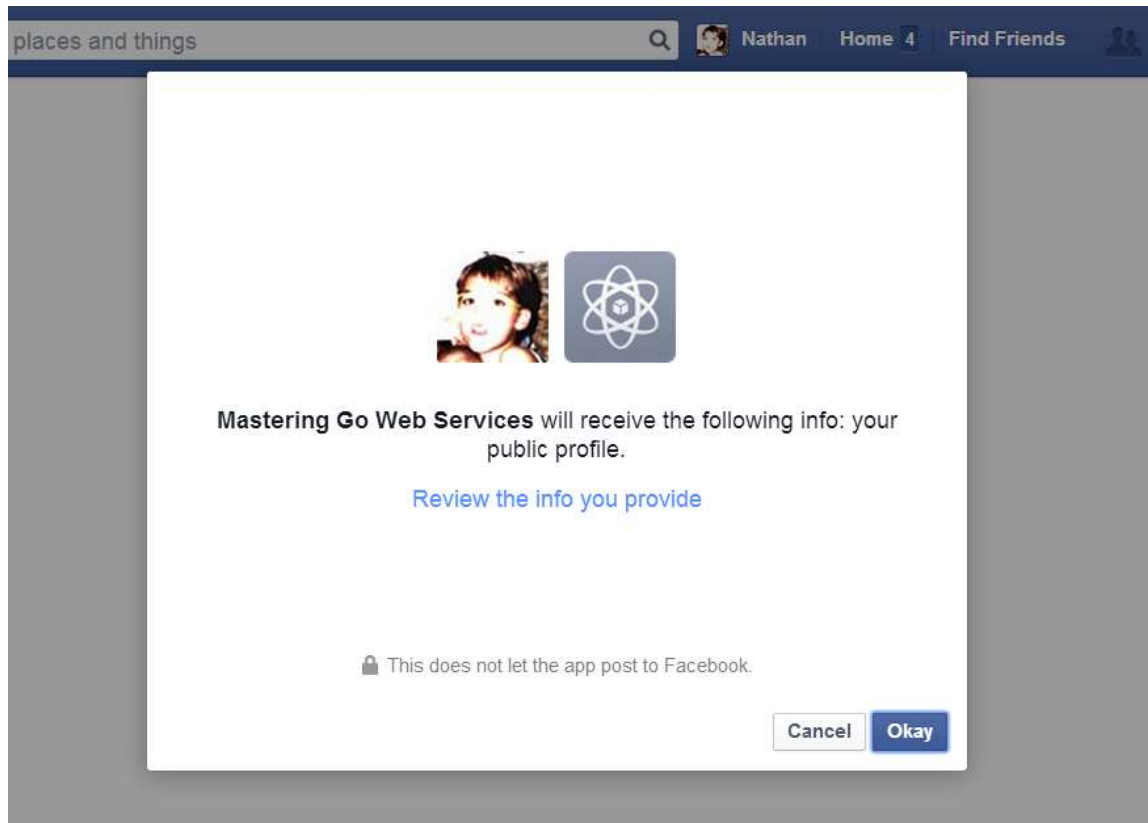
You should not proceed, **especially** if you have never seen this warning before for this site.

▶ [Help me understand](#)



← → ↻ 🏠  ~~https://~~localhost 🔍 📄 ☆



You have arrived at port 443, and now you are now marginally more secure.

Chapter 6



▾ Mastering Web Services in Go! would like to:

 Know your basic profile info and list of people in your circles. 
Includes people in circles that are not public on your profile.

 Allow Google to let the people in these circles know that you have signed in to this app with Google: 
Your circles

By clicking Accept, you allow this app and Google to use your information in accordance with their respective terms of service and privacy policies. You can change this and other [Account Permissions](#) at any time.

Cancel

Accept

Normal Basic Auth Digest Auth OAuth 1.0 OAuth 2.0 No environment

https://www.mastergoco.com/api/statuses POST

form-data x-www-form-urlencoded raw binary

consumer_key	testkey	Text
token	n@HwQEZAAdFDyA'p_QOeVhNga_	Text
user	37	Text
status	hello, world!	Text
Key	Value	Text

Send Preview Pre-request script Tests Add to collection

Body Cookies Headers (3) Tests STATUS 200 OK TIME 341 ms

Pretty Raw Preview HTML

```
1 {Status created 0}
2
```

Normal Basic Auth Digest Auth OAuth 1.0 No environment

https://localhost/api/users POST

form-data x-www-form-urlencoded raw

user	bjohnson	Text	
email	bjohnson@mastergoco.com	Text	
first	Bill	Text	
last	Johnson	Text	
password	XBE1xIw7roqSk0LHtuoB	Text	
Key	Value	Text	

Send Preview Add to collection

Body Cookies (1) Headers (3) STATUS 200 OK TIME 1755 ms

Pretty Raw Preview JSON XML

```
1
```

Chapter 7

▼ **Response Headers** [view source](#)

Connection: keep-alive

Content-Length: 14

Content-Type: text/plain; charset=utf-8

Date: Thu, 02 Oct 2014 01:56:17 GMT

Server: nginx/1.4.6 (Ubuntu)

X-Forwarded-For: An awesome Golang server

Emulation Rendering

▼ **Response Headers** [view source](#)

Connection: Keep-Alive

Content-Length: 14

Content-Type: text/plain; charset=utf-8

Date: Thu, 02 Oct 2014 00:31:10 GMT

Keep-Alive: timeout=5, max=99

Server: Apache/2.4.7 (Ubuntu)

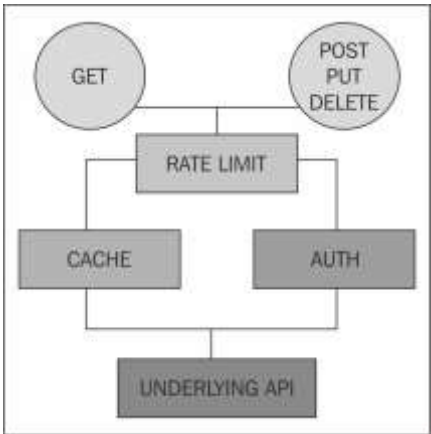
X-Forwarded-For: An awesome Golang server

Emulation Rendering

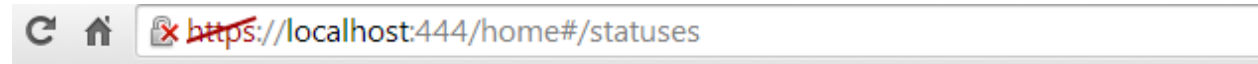
Chapter 9



Chapter 10



Chapter 11



New Status:

Post

Previous Statuses:

Having a great day! `<iframe src='somebadsite/somebadscript'></iframe>`
This was my first status update!