

2 - Your First API Server

Building an API Web Server

src/first-api-server/main.go

```
1 package main
2
3 import (
4     "fmt"
5     "net/http"
6 )
7
8 func main() {
9     err := http.ListenAndServe("localhost:8080", nil)
10    if err != nil {
11        fmt.Println(err)
12    }
13 }
```

Creating the Default Route

Creating the Default Hadler

src/first-api-server/main.go

```
1 package main
2
3 import (
4     "fmt"
5     "net/http"
6     "os"
7 )
8
9 func rootHandler(w http.ResponseWriter, r *http.Request) {
10    w.WriteHeader(http.StatusOK)
11    w.Write([]byte("Running API v1\n"))
12 }
13
14 func main() {
15    http.HandleFunc("/", rootHandler)
16    err := http.ListenAndServe("localhost:8080", nil)
17    if err != nil {
18        fmt.Println(err)
19        os.Exit(1)
20    }
21 }
```

Custom Error Message

src/first-api-server/main.go

```
1 package main
2
3 import (
4     "fmt"
5     "net/http"
6     "os"
7 )
8
9 func rootHandler(w http.ResponseWriter, r *http.Request) {
10     if r.URL.Path != "/" {
11         w.WriteHeader(http.StatusNotFound)
12         w.Write([]byte("Asset not found\n"))
13         return
14     }
15     w.WriteHeader(http.StatusOK)
16     w.Write([]byte("Running API v1\n"))
17 }
18
19 func main() {
20     http.HandleFunc("/", rootHandler)
21     err := http.ListenAndServe("localhost:8080", nil)
22     if err != nil {
23         fmt.Println(err)
24         os.Exit(1)
25     }
26 }
```

testcase 1: (Normal)

```
1 $ curl localhost:8080
```

testcase 2: (Error)

```
1 $ curl localhost:8080/something
```

