Post Context deadline exceeded (Client.Timeout exceeded while awaiting headers)

Asked 2 years, 4 months ago Modified 10 months ago Viewed 54k times



I am running a simple query using clickhouse HTTP Interface

10







```
package main
import (
"fmt"
"net/http"
"time"
func main() {
    url := "http://localhost:8123" + "?query=select%201"
    req, _ := http.NewRequest("Post", url, nil)
    // set headers
    req.Header.Set("X-ClickHouse-User", "user")
    req.Header.Set("X-ClickHouse-Key", "password") //password
    client := &http.Client{
        Timeout: 5 * time.Second,
    resp, err := client.Do(req)
    if err != nil {
        fmt.Println(err.Error())
    } else {
        fmt.Println("Success")
}
```

It is giving me this error Post "http://localhost:8123?query=select%201": context deadline exceeded (Client.Timeout exceeded while awaiting headers)

Note: If I use insert query instead of this select query it will give me the same error but also will insert the data correctly.

Any help would be appreciated.

Thanks



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edited Nov 9, 2022 at 9:10

asked Nov 9, 2022 at 8:31



Probably is because you are setting the timeout on your side and the server timeout is longer than yours. In consequence the server may send a response after the 5sec that you are waiting for. – Marcel Kohls Nov 9, 2022 at 11:17

@MarcelKohls I sent the same request from the postman, Nodejs and it worked. it takes less that a sec to respond – Zunnurain Badar Nov 9, 2022 at 12:32

1 Answer

Sorted by: Highest score (default)



I did a quick sample here using your code, and as I suspected, locally this error only happens when the server times out. Maybe postman is doing something that hides this behavior.





Also, don't forget that the http.Client timeout is for the entire request-response cycle that is constituted up of Dialer, TLS Handshake, Request Header, Request Body, Response Header and Response Body timeouts.



Please take a look in the POC below and change the timeout() for different values to see the success (4- sec) or fail (5+ sec).

```
package main
import (
    "fmt"
    "log"
    "net/http"
    "time"
)
func timeout(w http.ResponseWriter, req *http.Request) {
    time.Sleep(5 * time.Second)
}
func server() {
    go func() {
        http.HandleFunc("/", timeout)
        log.Fatal(http.ListenAndServe(":8123", nil))
    }()
}
func main() {
    server()
        url := "http://localhost:8123" + "?query=select%201"
    req, _ := http.NewRequest("Post", url, nil)
    // set headers
    req.Header.Set("X-ClickHouse-User", "user")
                                                      //user
    req.Header.Set("X-ClickHouse-Key", "password") //password
```

```
client := &http.Client{
    Timeout: 5 * time.Second,
}
resp, err := client.Do(req)
if err != nil {
    fmt.Println(err.Error())
} else {
    fmt.Println("Success", resp)
}
```

you can also try to make use of specific http.Client timeouts as for example:

Some references that may help you: https://blog.cloudflare.com/the-complete-guide-to-golang-net-http-timeouts/ https://blog.cloudflare.com/the-complete-guide-to-golang-net-http-timeouts/ https://gosamples.dev/http-client-timeouts/

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answered Nov 9, 2022 at 16:04

Marcel Kohls

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Very helpful!! I was earlier setting overall Timeout in the Client struct. This did not take care off the scenario when we are uploading large files on slow internet. Instead now shifted to using ResponseHeaderTimeout in Transport struct – Madhur Bhaiya Dec 21, 2024 at 9:29

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