























# Setup pprof - server

```
import (  
    _ "net/http/pprof"  
)  
func main() {  
    // run pprof  
    go func() {  
        fmt.Println(http.ListenAndServe("localhost:6060", nil))  
    }()  
    ...  
}
```

# Setup pprof - files

```
if err := pprof.StartCPUProfile(f); err != nil {  
    log.Fatal("could not start CPU profile: ", err)  
}  
  
// remove unused heap allocations  
  
runtime.GC()  
if err := pprof.WriteHeapProfile(f); err != nil {  
    log.Fatal("could not write memory profile: ", err)  
}
```

# Setup pprof - chi router

```
import (  
    "github.com/go-chi/chi"  
    "github.com/go-chi/chi/middleware"  
)  
  
func main() {  
    r := chi.NewRouter()  
    r.Mount("/debug", middleware.Profiler())  
}
```

[chi](#)



# Using pprof - cli

To access and analyze pprof data, you can use the cli command:

```
go tool pprof http://localhost:6060/debug/pprof/allocs
```

[demo](#)

[additional docs](#)

# Using pprof - UI

You can also access and analyze pprof data via a helpful web UI.

*If you want to access the interactive web UI you will need to install the [graphviz tool](#)*

```
go tool pprof -http=:18081 http://localhost:6060/debug/pprof/profile\?seconds\=30
```

[demo](#)



# Using pprof - save files

If you have cached your data, access it directly from the stored protobuf files

```
go tool pprof ex-4-benchmarking/solution/cpu.prof
```









