How To Defer?



Hello!

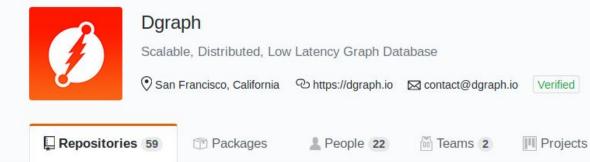
Aman Mangal

Dgraph Labs, Bangalore, India

Working with Go for >4 years

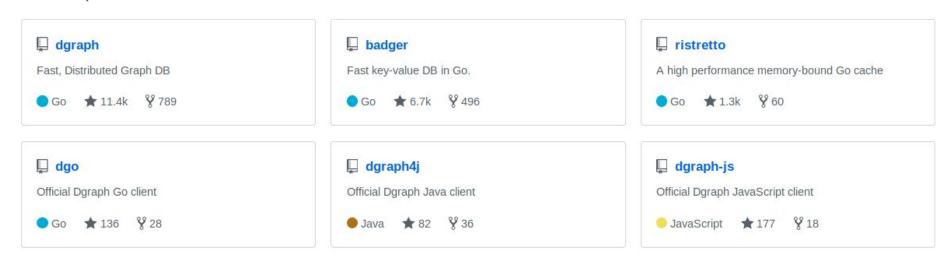


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Pinned repositories

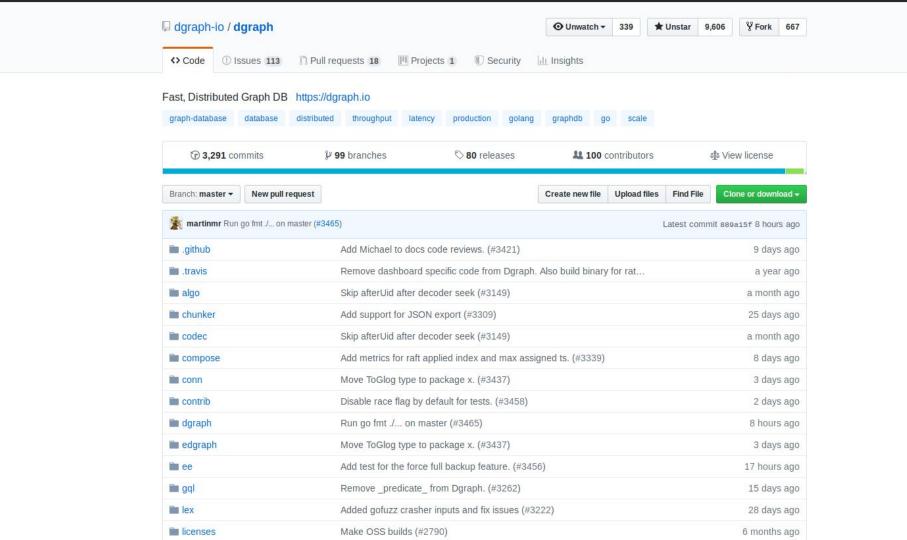
Find a repository...

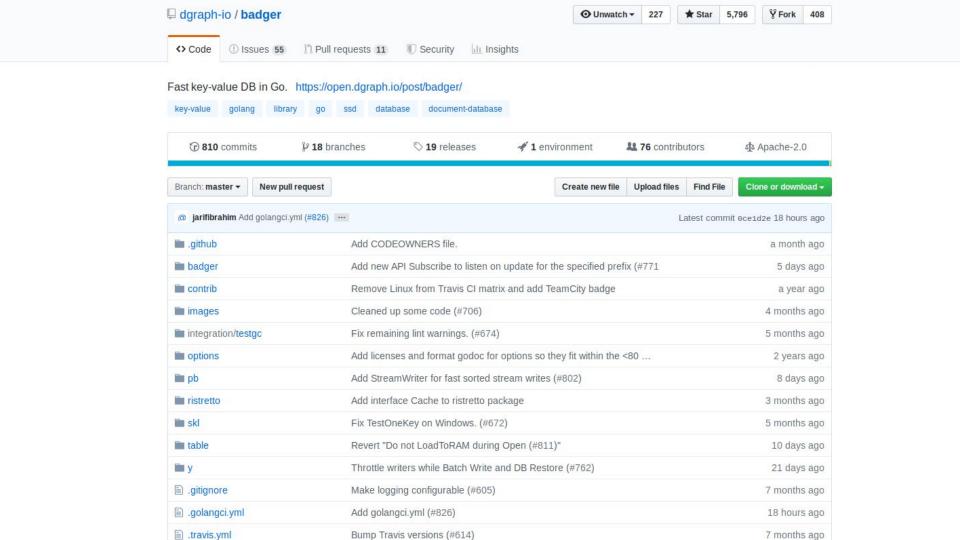


Type: All →

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■ New





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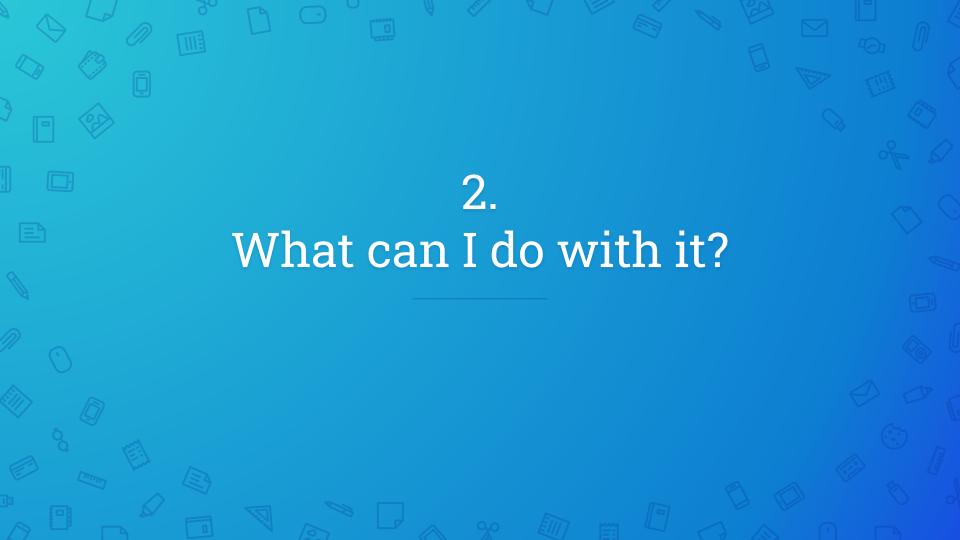
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Defer in Go

A defer statement defers the execution of a function until the surrounding function returns





Use Cases of Defer

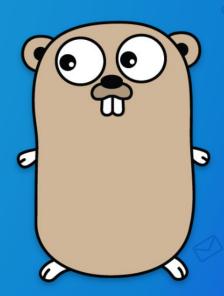
- Simple print example
- While reading and writing to files
- Closing request in a web server
- Interacting with a database
- locking and unlocking mutex variables
- Status updates (atomics)
- Golang Waitgroup
- Recover from panic (panic vs os.Exit())





What will this print?

```
func release() func() {
  return func() {fmt.Print("closed") }
}
func main() { defer release() }
```



What does this func return?

```
func(i int) (n int) {
  defer func(f func() int) {
     n = f()
  }(func() int {
     return i
  return
}(4)
```



Will this print anything?

```
func() {
  var run func() = nil
  defer run()
  fmt.Println("runs")
}
```



What will this print?

```
func main() {
  defer func() {
   fmt.Println("block: defer runs")
  fmt.Println("block: ends")
 fmt.Println("main: ends")
```





Transaction

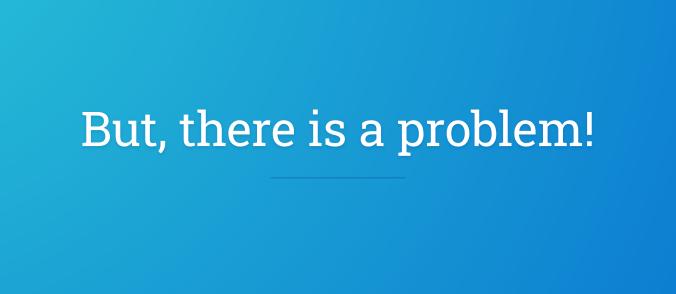
request to update configuration for a service

confirmation of success

Write conf to etcd

update conf for the service

restart service



9564875564	54654240404	87459823654	89564875564	5465424040
2654895465	23421404359	85123030213	02654895465	2342140435
3025165465	78553402213	13311000011	13025165465	7855340221
6540215497	49758672464	25468952654	76540215497	4975867246
7654860216	97968652031	78021328503	87654860216	9796865203
4897564202	25679561203	57920045685	54897564202	2567956120
5465465460	26456530979	48314904153	15465465460	2645653097
1654 21505	80532031240	18996515746	2010101012010101	305520 124
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2165 54052	26501625425	62064035423	COLCEDEADED	365016 542
3245450154	34659782135	35656497652	13245450154	3465978213
4987984301	64023100002	31200124556	84987984301	6402310000
4568765435	13656462857	87976423120	24568765435	1365646285
1235435435	55645622256	31655976421	01235435435	5564562225
2021610576				
3021648576	79866566433	05234605242	43021648576	7986656643
3441100000	79866566433 59823101346	05234605242 59257561221	43021648576 53441100000	7986656643 5982310134



Thanks!

Any questions?

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