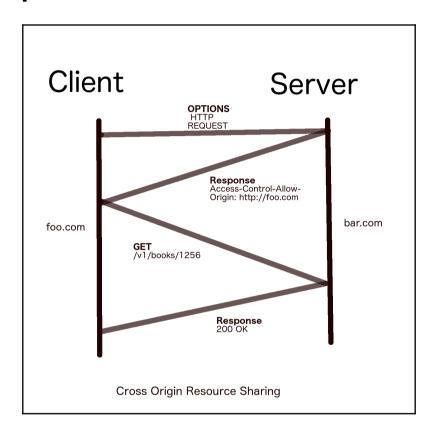
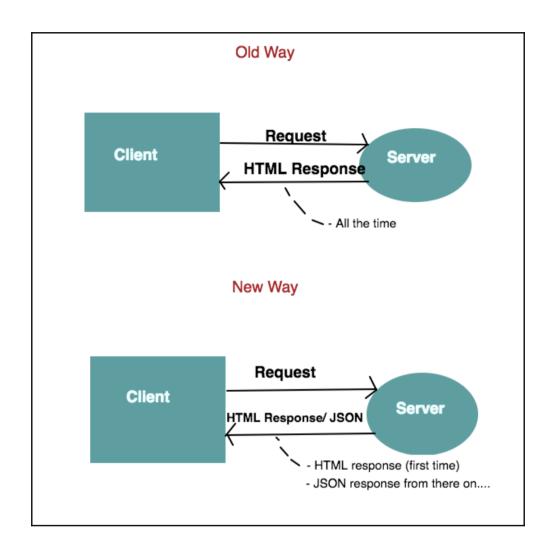
Chapter 1: Getting Started with REST API Development





```
bin/
hello # command executable

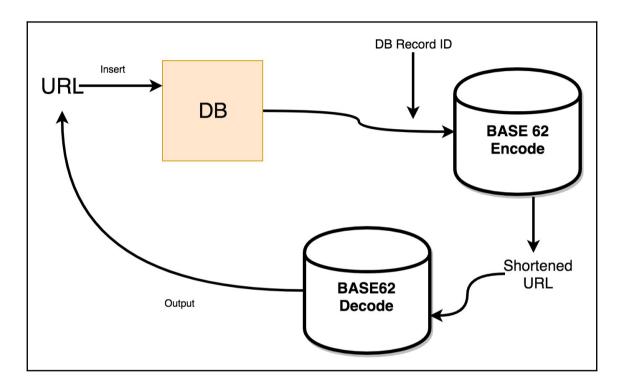
pkg/
linux_amd64/ # this will reflect your OS and architecture
github.com/user/
stringutil.a # package object

src/
github.com/user/
hello/
hello.go # command source
stringutil/
reverse.go # package source
```

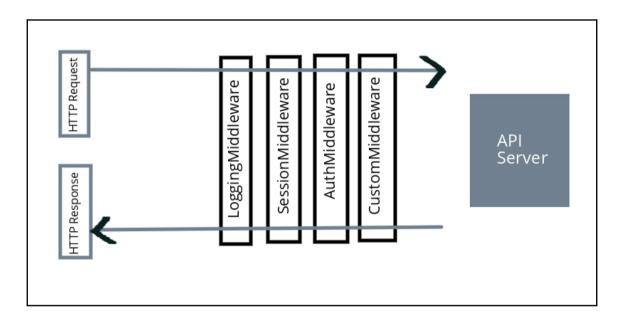
```
root@SiteB-Host1:~# supervisorctl
                                         pid 11405, uptime 0:00:01
myserver
                               RUNNING
supervisor> help
default commands (type help <topic>):
      exit
add
                open
                      reload restart
                                       start
                                               tail
                pid
avail
                      remove shutdown
      fa
                                       status
                                               update
clear maintail quit
                      reread signal
                                               version
                                       stop
supervisor>
```

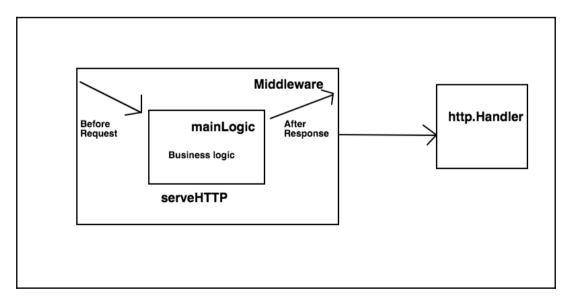
```
[20:50:38] Starting 'watch'...
[20:50:38] Finished 'watch' after 45 ms
[20:50:38] Starting 'default'...
[20:50:38] Finished 'default' after 11 µs
[20:50:46] Starting 'install-binary'...
[20:50:47] Finished 'install-binary' after 1.07 s
[20:50:47] Starting 'restart-supervisor'...
myserver: stopped
myserver: started
[20:50:48] Finished 'restart-supervisor' after 1.14 s
```

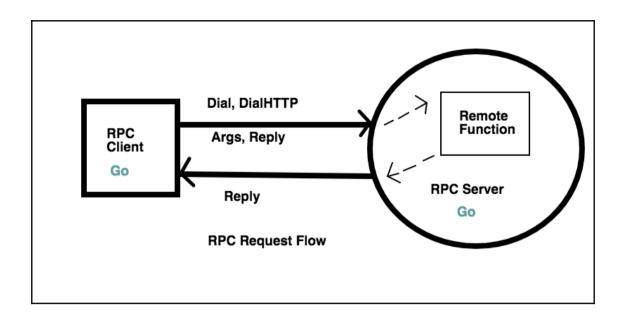
Chapter 2: Handling Routing for Our REST Services



Chapter 3: Working with Middleware and RPC







Chapter 4: Simplifying RESTful Services with Popular Go Frameworks

```
[9:29:34] naren:ginExamples git:(master*) $ go run ginBasic.go
[GIN-debug] [WARNING] Running in "debug" mode. Switch to "release" mode in production.

- using env: export GIN_MODE=release

- using code: gin.SetMode(gin.ReleaseMode)

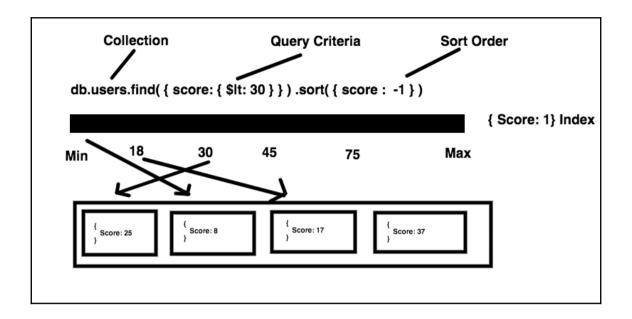
[GIN-debug] GET /pingTime --> main.main.func1 (3 handlers)
[GIN-debug] Listening and serving HTTP on :8000
[GIN] 2017/06/11 - 09:29:44 | 200 | 184.984µs | ::1 | GET /pingTime
```

```
/v1/stations/:station_id --> main.GetStation (3 handlers)
[GIN-debug] GET
[GIN-debug] POST
                  /v1/stations
                                             --> main.CreateStation (3 handlers)
[GIN-debug] DELETE /v1/stations/:station_id --> main.RemoveStation (3 handlers)
[GIN-debug] Listening and serving HTTP on :8000
[GIN] 2017/06/11 - 16:07:35 | 200 |
                                        384.756µs | 10.101.254.223 |
                                                                       GET
                                                                               /v1/stations/1
[GIN] 2017/06/11 - 16:09:11 |
                              200 I
                                        222.511µs | 10.101.254.223 |
                                                                       GET
                                                                               /v1/stations/2
                                                                               /v1/station/1
[GIN] 2017/06/11 - 16:09:59 |
                              404
                                          1.162µs | 10.101.254.223 |
                                                                       GET
[GIN] 2017/06/11 - 16:10:03 | 200 |
                                         232.36µs | 10.101.254.223 |
                                                                       GET
                                                                               /v1/stations/1
[GIN] 2017/06/11 - 16:55:15 | 200 |
                                                                       GET
                                                                               /v1/stations/1
                                        290.281µs | 10.101.254.223 |
[GIN] 2017/06/11 - 16:56:10 |
                                        282.856µs | 10.101.254.223 |
                                                                       DELETE /v1/stations/1
```

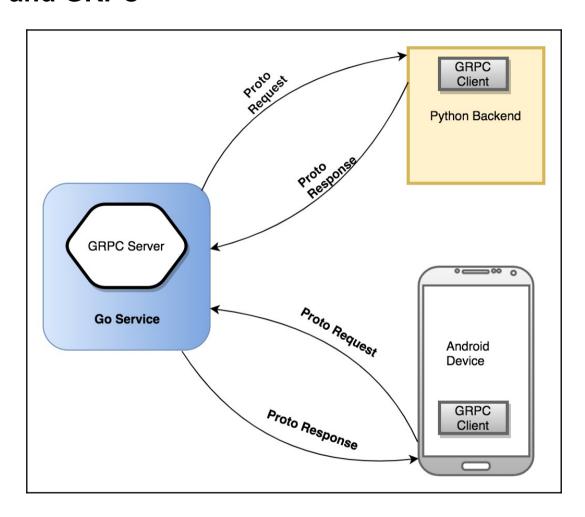
Chapter 5: Working with MongoDB and Go to Create REST APIs

```
[10:03:52] naren:~ $ mongod
2017-07-01T10:03:58.130-0530 I CONTROL [initandlisten] MongoDB starting: pid=86550 port=27017 dbpath=/data/db 64-bit host=Narens
-MacBook-Air.local
2017-07-01T10:03:58.131+0530 I CONTROL
                                          [initandlisten] db version v3.4.5
2017-07-01T10:03:58.131+0530 I CONTROL
2017-07-01T10:03:58.131+0530 I CONTROL
                                          [initandlisten] git version: 520b8f3092c48d934f0cd78ab5f40fe594f96863
                                          [initandlisten] OpenSSL version: OpenSSL 1.0.2l 25 May 2017
2017-07-01T10:03:58.131+0530 I CONTROL
                                          [initandlisten] allocator: system
2017-07-01T10:03:58.131+0530 I CONTROL
                                          [initandlisten] modules: none
2017-07-01T10:03:58.131+0530 I CONTROL
                                          [initandlisten] build environment:
2017-07-01T10:03:58.131+0530 I CONTROL
                                          [initandlisten]
                                                              distarch: x86_64
2017-07-01T10:03:58.131+0530 I CONTROL
                                          [initandlisten]
                                                              target_arch: x86_64
```

```
[10:04:05] naren:~ $ mongo
MongoDB shell version v3.4.5
connecting to: mongodb://127.0.0.1:27017
MongoDB server version: 3.4.5
Welcome to the MongoDB shell.
For interactive help, type "help".
For more comprehensive documentation, see
        http://docs.mongodb.org/
Questions? Try the support group
        http://groups.google.com/group/mongodb-user
Server has startup warnings:
2017-07-01T10:03:58.675+0530 I CONTROL Finitandlisten
                                        [initandlisten] ** WARNING: Access control is not enabled for the database.
2017-07-01T10:03:58.675+0530 I CONTROL
2017-07-01T10:03:58.675+0530 I CONTROL
                                        [initandlisten] **
                                                                    Read and write access to data and configuration is unrestricte
2017-07-01T10:03:58.675+0530 I CONTROL [initandlisten]
```

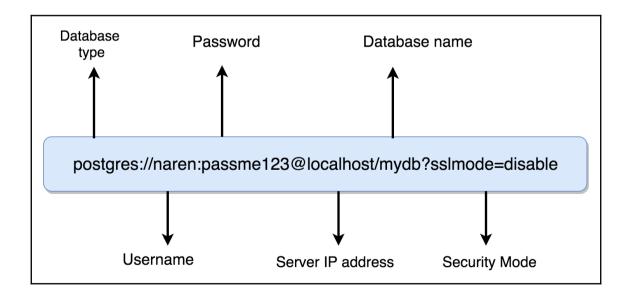


Chapter 6: Working with Protocol Buffers and GRPC

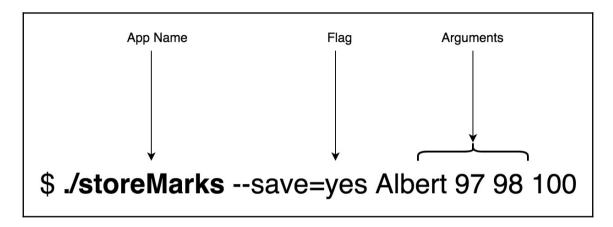


Chapter 7: Working with PostgreSQL, JSON, and Go

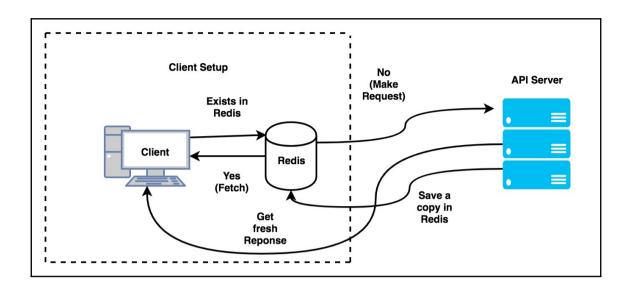
```
Informational
  (options: S = \text{show system objects}, + = \text{additional detail})
                         list tables, views, and sequences
  d[S+]
                         describe table, view, sequence, or index
  \d[S+] NAME
  \da[S] [PATTERN]
                         list aggregates
  \dA[+] [PATTERN]
                         list access methods
 \db[+] [PATTERN]
                         list tablespaces
  \dc[S+] [PATTERN]
                         list conversions
  \dC[+] [PATTERN]
                         list casts
                         show object descriptions not displayed elsewhere
  \dd[S] [PATTERN]
                         list default privileges
  \ddp
          [PATTERN]
 \dD[S+] [PATTERN]
                         list domains
 \det[+] [PATTERN]
                         list foreign tables
  \des[+] [PATTERN]
                         list foreign servers
  \deu[+] [PATTERN]
                         list user mappings
```



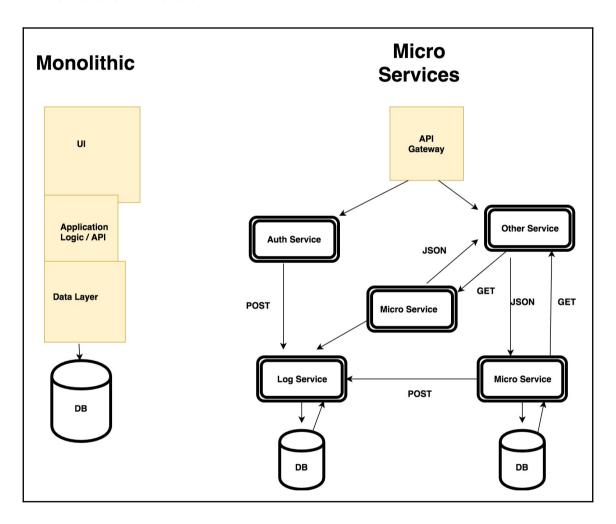
Chapter 8: Building a REST API Client in Go and Unit Testing







Chapter 9: Scaling Our REST API Using Microservices



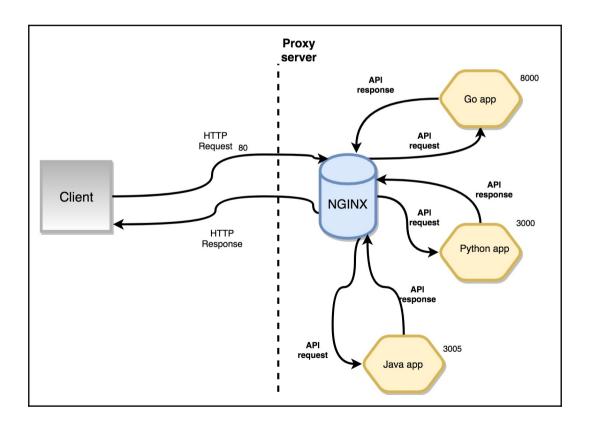
Chapter 10: Deploying Our REST services

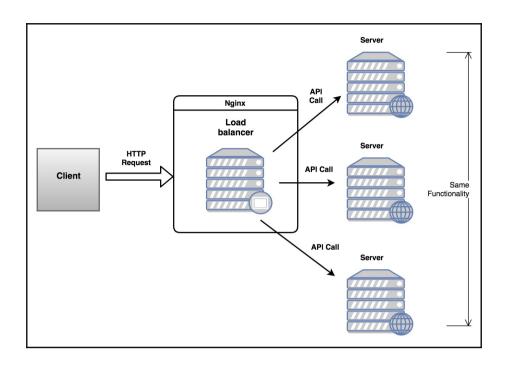
Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org. Commercial support is available at nginx.com.

Thank you for using nginx.

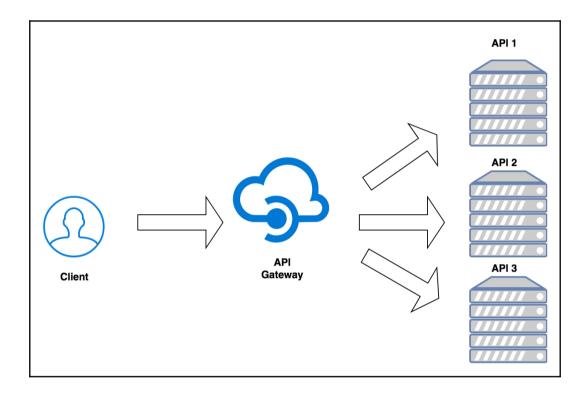


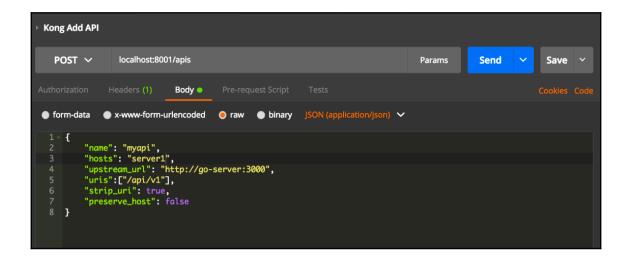


```
root@ubuntu:~# supervisorctl
                                           pid 6886, uptime 0:00:47
                                RUNNING
myserver
supervisor> help
default commands (type help <topic>):
add
      clear fg
                       open
                             quit
                                             restart
                                                       start
                                                                     update
                                     remove
                                                               stop
avail exit
             maintail pid
                             reload
                                             shutdown
                                                       status
                                                               tail
                                                                     version
                                     reread
supervisor>
```

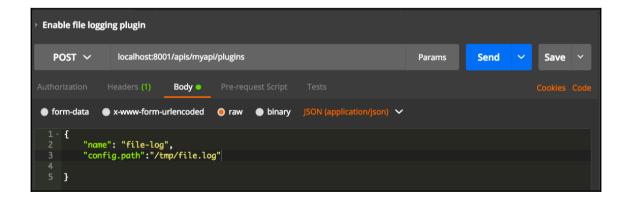
```
root@ubuntu:~# kill 6886
root@ubuntu:~# supervisorctl
myserver RUNNING pid 6903, uptime 0:00:10
supervisor> help
default commands (type help <topic>):
```

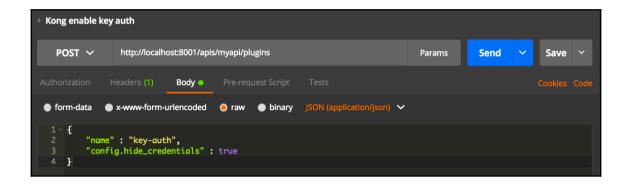
Chapter 11: Using an API Gateway to Monitor and Metricize REST API

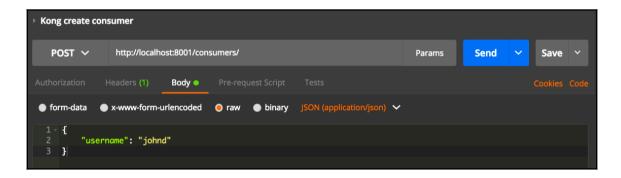


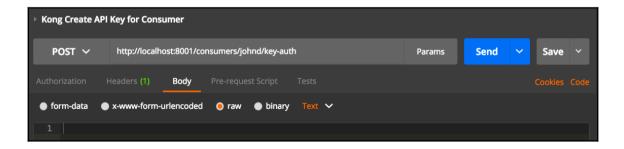


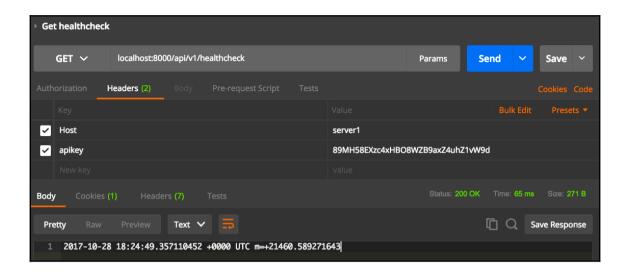


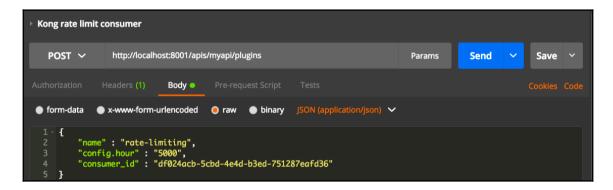












Chapter 12: Handling Authentication for Our REST Services

