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Database Migrations

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spaceID=127&topicID=5374&forumID=5366&key=rre%2B1xDo%2BlxpC7jBRbM5w%3D%3D)



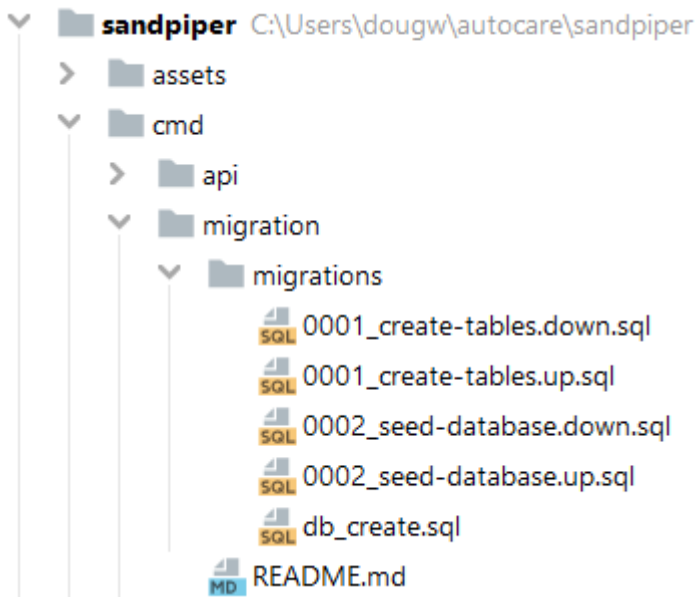
Doug Winsby (<https://autocare.communifire.com/people/dougwinsby>)



12/5/2019

On server start, the "database-version" is checked and any required SQL updates are applied.

After initial "release", new migrations are added to the "migrations" directory and then applied automatically when a program update is put into production.



[illegible]

We created this early in development because it takes a new database and adds initial tables and defaults (i.e. "seeding").

- db (/spaces/127/sandpiper/searchresults?keyword=%22db%22&searchtags=1)
- migrations (/spaces/127/sandpiper/searchresults?keyword=%22migrations%22&searchtags=1)
- seeding (/spaces/127/sandpiper/searchresults?keyword=%22seeding%22&searchtags=1)

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 **Doug Winsby** (<https://autocare.communifire.com/people/dougwinsby>)  

We've decided to only create forward ("up") migrations. Here is one discussion that speaks to problems with providing rollback ("down") migrations:

<https://flywaydb.org/documentation/command/undo#important-notes>
(<https://flywaydb.org/documentation/command/undo#important-notes>).

If for some reason the developers need to rollback database changes, they can do it in a separate "up" migration.

- no-down-migrations (/spaces/127/sandpiper/searchresults?keyword=%22no-down-migrations%22&searchtags=1)

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Krister Kittelson (<https://autocare.communifire.com/people/krister-kittelson>)

12/9/2019



I definitely agree on the forward-only migration.



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Answer



Doug Winsby (<https://autocare.communifire.com/people/dougwinsby>)

1/4/2020



In order to make deployment easier, we're now **embedding the migrations** directly in the executable. There's a simple command to do this before a build, and it is all automated in the `taskfile.yml` (which is similar to a makefile) as shown below.

```
go-bindata:
  desc: Add go-bindata dependency and install it if necessary
  cmds:
    - go get -u github.com/go-bindata/go-bindata/...
  silent: true

bindata-server:
  desc: Use go-bindata to encode file migrations in a go source file
  dir: pkg/api/migrations
  deps: [go-bindata]
  cmds:
    - go-bindata -ignore ".*md$|.*go$" -pkg migrations .

build-server:
  desc: Build sandpiper server
  dir: cmd/api
  deps: [bindata-server]
  cmds:
    - go build -v -o {{.EXE}} -ldflags="-X autocare.org/sandpiper/pkg/api/version.Version={{.VER}}"
```

This means the actual migration files are no longer shipped with the client or server executable. Of course, they're still available with the source downloads.

`go-bindata (/spaces/127/sandpiper/searchresults?keyword=%22go-bindata%22&searchtags=1)`



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Answer



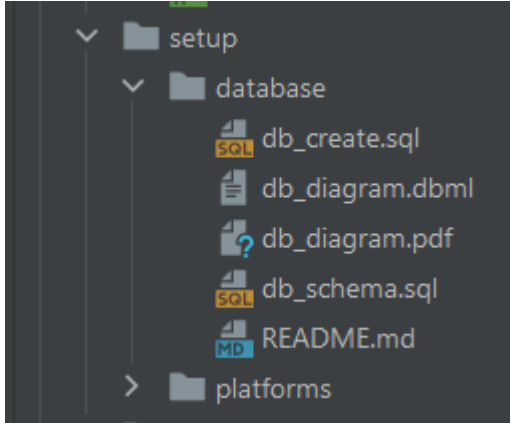
Doug Winsby (<https://autocare.communifire.com/people/dougwinsby>)

8/6/2020



UPDATE: We no longer embed external migration files in the executable. We now define the migrations directly in the code using <https://github.com/GuiaBolso/darwin>.
(<https://github.com/GuiaBolso/darwin>).

We do maintain an external `db_schema.sql` file for documentation purposes, though.



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