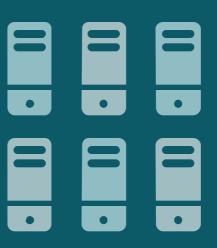
THE TWELVE-FACTOR APP METHODOLOGY

A METHODOLOGY FOR BUILDING SOFTWARE-AS-A-SERVICE APPS

CODEBASE

ONE CODEBASE TRACKED IN REVISION CONTROL, MANY DEPLOYS





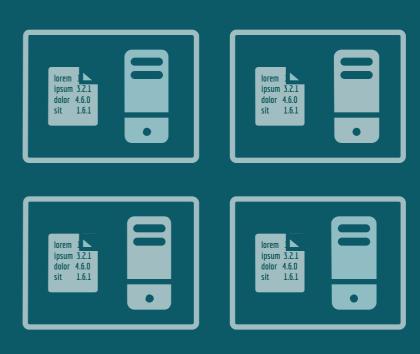
CODEBASE

DEPLOYMENTS

DEPENDENCIES

EXPLICITLY DECLARE AND ISOLATE DEPENDENCIES





DECLARE

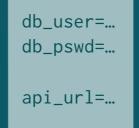
ISOLATE

CONFIG

STORE CONFIG IN THE ENVIRONMENT





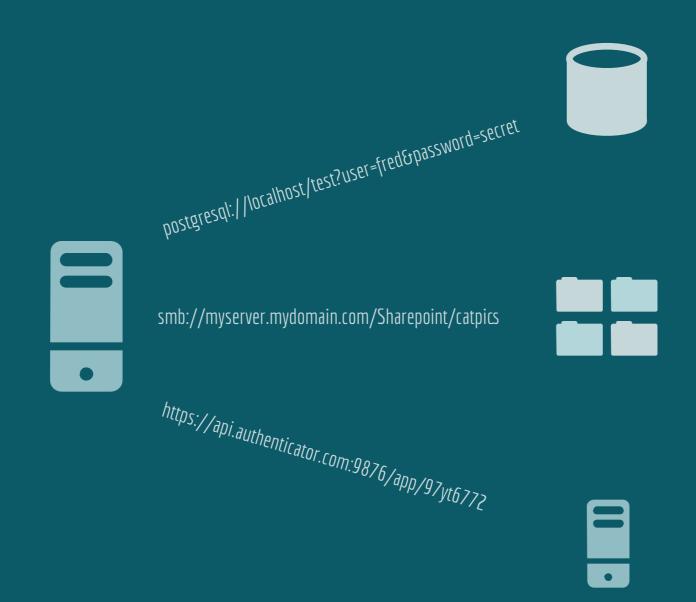






BACKING SERVICES

TREAT BACKING SERVICES AS ATTACHED RESOURCES



BUILD, RELEASE, RUN

STRICTLY SEPARATE BUILD AND RUN STAGES







BUILD

RELEASE

RUN

PROCESSES.

OR MORE STATELESS PROCESSES

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* ITS A STATE JOKE

PORT BINDING

EXPORT SERVICES VIA PORT BINDING

OPERATING SYSTEM

APP

xmpp::5222 **⅓** →

APP

http::4889 **4** →

APP

ssh::2222 **⅓** →

---- :(----

0\$



http::8080 **4** →

CONCURRENCY

SCALE OUT VIA THE PROCESS MODEL

WORKER.3

WEB.2

WORKER.2

WEB.1

WORKER.1

CRON.1

OPERATING SYSTEM

DISPOSABILITY

MAXIMIZE ROBUSTNESS WITH FAST STARTUP AND GRACEFUL SHUTDOWN



DEV/PROD PARITY

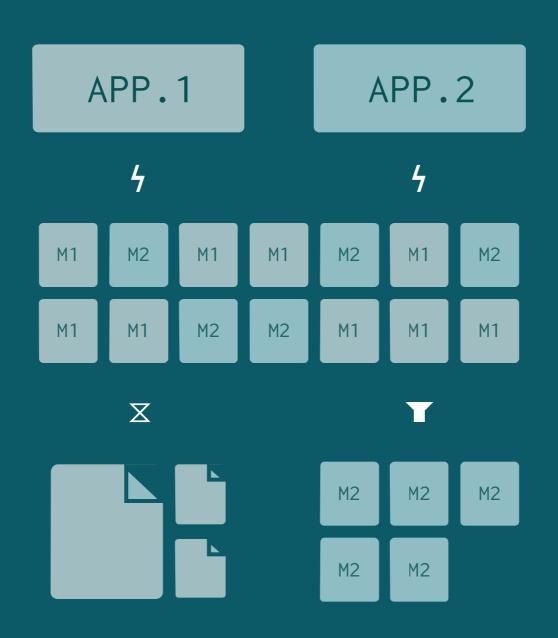
KEEP DEVELOPMENT, STAGING, AND PRODUCTION AS SIMILAR AS POSSIBLE



BUILDING AN EVEN MORE PERFECT ASSHOLE PARADE

LOGS

TREAT LOGS AS EVENT STREAM



ADMIN PROCESSES

RUN ADMIN/MANAGEMENT TASKS AS ONE-OFF PROCESSES



db:migrate 4 →



lein repl 4 → >_



http://l2factor.net