THE TWELVE-FACTOR APP METHODOLOGY

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

ONE CODEBASE TRACKED IN REVISION CONTROL, MANY DEPLOYS
DEPENDENCIES

EXPLICITLY DECLARE AND ISOLATE DEPENDENCIES
CONFIG

STORE CONFIG IN THE ENVIRONMENT
BACKING SERVICES

TREAT BACKING SERVICES AS ATTACHED RESOURCES
postgresql://localhost/test?user=fred&password=secret

smb://myserver.mydomain.com/Sharepoint/catpics

https://api.authenticator.com:9876/app/97yt6772
BUILD, RELEASE, RUN

STRICTLY SEPARATE BUILD AND RUN STAGES
EXECUTE THE APP AS ONE OR MORE STATELESS PROCESSES
PORT BINDING

EXPORT SERVICES VIA PORT BINDING
CONCURRENCY

SCALE OUT VIA THE PROCESS MODEL
DISPOSABILITY

MAXIMIZE ROBUSTNESS WITH FAST STARTUP AND GRACEFUL SHUTDOWN
DEV/PROD PARITY

KEEP DEVELOPMENT, STAGING, AND PRODUCTION AS SIMILAR AS POSSIBLE
OSX
APACHE
MYSQL

CENTOS
APACHE
MARIADB

REDHAT
NGINX
ORACLE

DEV
STAGE
PROD

BUILDING AN EVEN MORE PERFECT ASSHOLE PARADE
LOGS

TREAT LOGS AS EVENT STREAM
ADMIN PROCESSES

RUN ADMIN/MANAGEMENT TASKS AS ONE-OFF PROCESSES
http://12factor.net