Docker Appliance GoLang

Small, Fast, Single Purposed

Concept

- Tiny Image

- Quick to Stand Up

- Micro Service

Platform

- Docker Container

- Container Management?

Go

- Compiled Binaries

- Garbage Collection

- Concurrency?

Typical Container

- FROM golang:onbuild

- EXPOSE 8080

Minimal Container

- FROM scratch

- ADD HttpServerWithFirewall /

- CMD ["/HttpServerWithFirewall"]

Go Build Script
for Static Linking

- CGO_ENABLED=0 GOOS=linux go build -a -installsuffix cgo -o HttpServerWithFirewall .

- docker build -t theminimalserver -f MinimalGoDockerfile .

Environment Variables

- CGO_ENABLED - allow C compiling

- GOOS - target operating system

Build flags

- -a - force rebuilding of packages that are up to date

- -installsuffix - a suffix to use in the name of the package installation directory, in order to keep output separate from default builds.

- -o - output