



Mobile app for student societies

### DockerGrunn

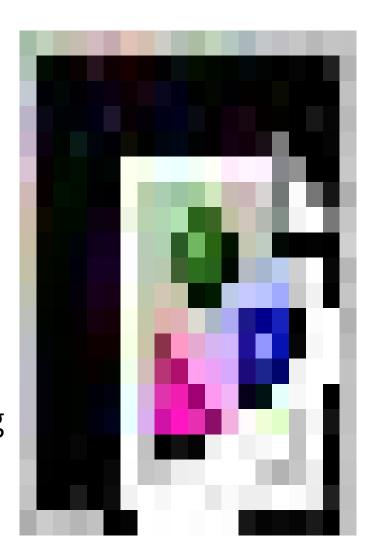


### Djurre de Boer

Co-founder and

Almanapp

Student: Master Software engineering @University of Groningen



## Where do we use it?

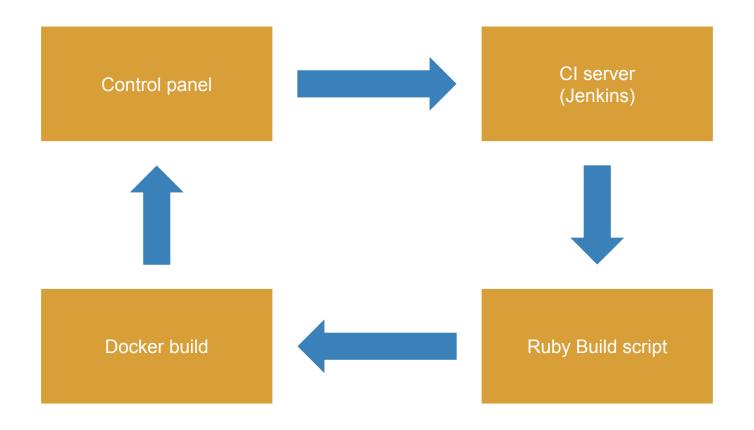
- Android build system
- ELK stack
- Jenkins
- Zabbix
- Prototyping

More every day



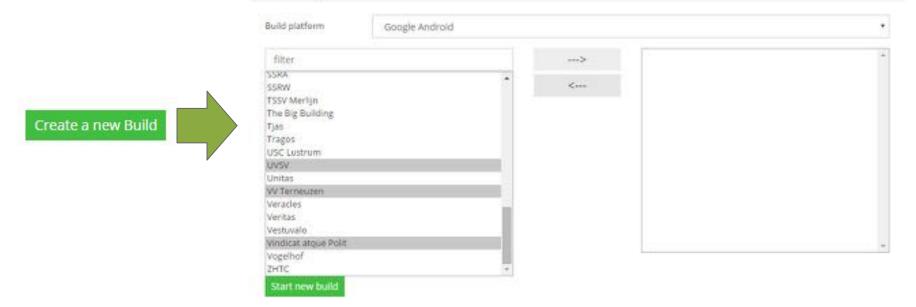
- Standardized
- Easy to transfer
- Easy to scale
- Fun







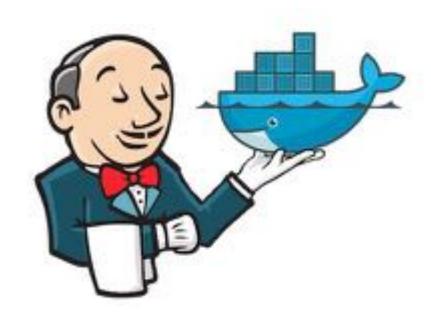
#### i Build system





Control system

type: release targets: 18, 15, 27



























Vorige build



```
Started by reacts boot 95,211,236,197
Building on matter in workspace /var/lib/jerkins/workspace/almanapp-android
 > git rev-paris --is-incide-sork-tree # timeoutris
Fetching changed from the remote Git repository
> git config remote.origin.orl git@bitiocket.org:quoty/almanapp-android.git # timeout+16
Fetching upstream changes from gitSbitbucket.org:pooty/aDmanapp-android.git
+ git --version # timeout-10
using SET SSA to set credentials Bitbucket private key
> git fetch -- tags -- progress git@bitbucket.org:quoty/almacapp-android.git +refs/heads/easter:refs/remotes/origin/easter
 > git rer-parts refs/remotes/origin/master*(commit) # timeout-00
 > git rec-parse refs/remntes/origin/remntes/origin/master*(commit) # timesut*10
Checking out Revision 67cd?e4df5787f2fb8e4ed5515b41]4ef063bda7 (refs/remotes/origin/master)
> git config core_sparsecheckout # timeout=30
 # git checkout -f 67c67e4df5787f2858e4c6552564124c916386e7
 > git rev-list bf54bld3c558ae04Elc6bcf553880c76dbdbeede # timeout-10
[almanapp-android] $ /bin/sh -se /Ymp/hubson4431686426645826078.sh
# decker-compare run builder bask -c cd /opt/almanapp-android $$ JAVA OPTS-"-Restilm -Residias" ./jenkins.rb
I, [2858-83-82712:22:48.688137 #5] 50#0 -- : " [Kaven] Bacen 0.15.6 ready to catch errors
I, [2616-65-82712:22:40.008167 #5] 3MFG -- : Applying PFVE...
I, (2806-03-02712) 22:49.509113 45) [MFO -- | Package III ol.alemnapp.ofor
D, [2000-07-02712-22:49.509519 #5] DEBUG :: | Dounloading Images ...
D. [2808-03-82712] 22:59.801834 #5] DEBOS -- | Generating debog launcher lcom --
D. 2000-00-02712:22:50.450057 WS D0000 -- : Rendering config mel...
oprebut1d
pretimitelessebuild
| checkSlowlebeaseman1fest
iprafactDebugbvild
cprefastReleaseBuild
rpreSimDebugfulld
                                                                                   1:20 minute per build
prepareComAndroidSupportAppcompatV72225Library UP-10-5818
preparaContodroldSupportCardvSevV7222ELibrary UP-TO-DATE
prepareConAndroidSupportDesign22210Strary 0F-TO-DaTE
preparaComindroidSupportFediarouterV72228Library NF-10-0618
prepareComindred&SupportFultibeviRtLUbrary UP-75-06TF
prepareComindroldSupportSupportVIXIZZILIbrary UP-TO-DATE
prepareComAndroidSupportSupportVA2331Library LP-78-DATE
prepareComDavemorriaseyLabsisbeamplingScaleEmageViesd4SLibrary UP-10-DA1E
prepareCombosgleAndroidSesPlayServices#10L5brary SP-TD-DATE
:prepareCostonglaAndroldSetPlayServicesAddStDStlbrary UP-TS-DATE
corepareComStooglaAndroldSimsPlayServicesAnalyticsSiBilbrary UP-70-DATE
prepareComboogleAndroidSmuFlayServisesAppindexing$100.1brary UF-TO-DATE
:prepareComGooglaAndroidGesPlaySarvicecAppinviteRiBLibrary UP-70-GATE
```

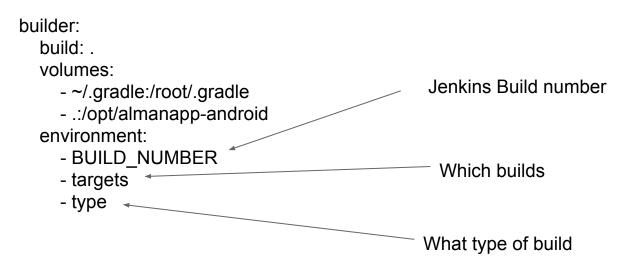
corecareComboogleAndroidDesPlayServicesAppointedIDLibrary UP-75-DATE

#### **Dockerfile**

```
FROM java:8
RUN DEBIAN_FRONTEND=noninteractive apt-get update && apt-get install -y \
    ruby \
    ruby-dev \
   build-essential \
   libmagickwand-dev \
   lib32stdc++6 \
   lib32z1 \
&& apt-get clean \
&& rm -rf /var/lib/apt/lists/*
W DownLoad Android SDK
RUN curl -L "http://dl.google.com/android/android-sdk r24.4.1-linux.tgz" | tar --no-same-
   owner -xz -C /opt
ENV ANDROID HOME /opt/android-sdk-linux
ENV ANDROID SDK /opt/android-sdk-linux
ENV PATH $ANDROID HOME/tools:$ANDROID HOME/platform-tools:$PATH
W Install Android 5DK components
RUN echo y | /opt/android-sdk-linux/tools/android update sdk --no-ui --all --filter "build-
    tools-22.0.1,android-22,addon-google apis-google-22,extra-android-m2repository.extra-
    google-m2repository"
# Install ruby prerequisites
RUN gem install rest-client rmagick sentry-raven
# Prepare source directory
RUN mkdir /opt/almanapp-android
```



#### docker-compose.yml



#### Jenkins command:

docker-compose run builder bash -c 'cd /opt/almanapp-android && JAVA\_OPTS="-Xms512m -Xmx1024m" . /jenkins.rb'



# Questions?



