## Definition of done:

### Working software in production

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# Continuous deployment





do we want the software in production?

Write down as many reasons you can in 2 minutes

## Customers want the service

We want feedback

Was this what you needed?

#### How

do you prefer to install software?

Write down as many good ways you can in 2 minutes

## Packages for the OS

We had Red Hat

RPMs were a good fit

yum -y install package-name

## Java web app

package a Java app as an RPM

#### Gradle

gradle-ospackage-plugin

A Netflix project

# Where did we start?









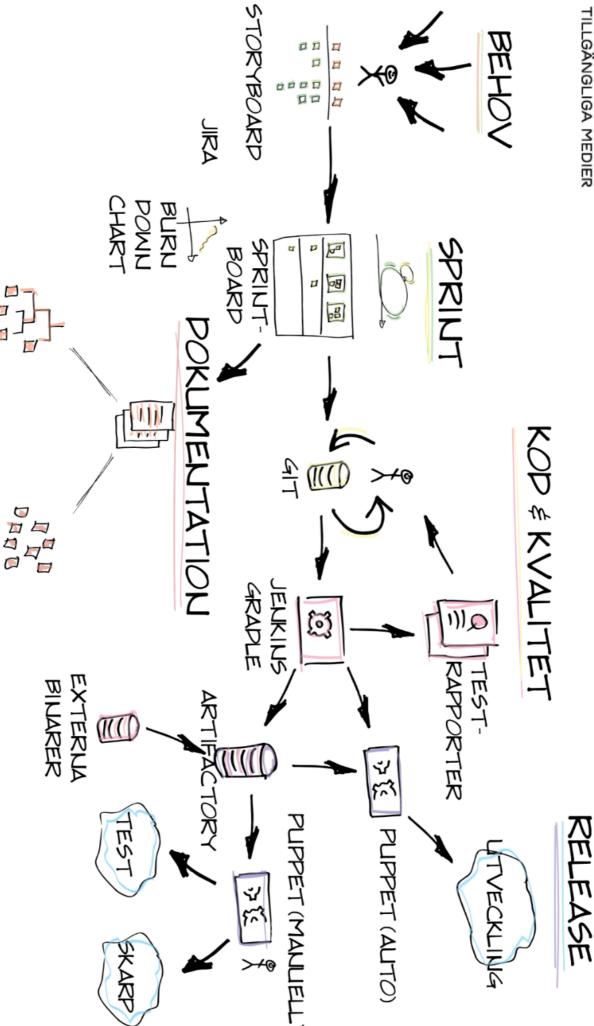




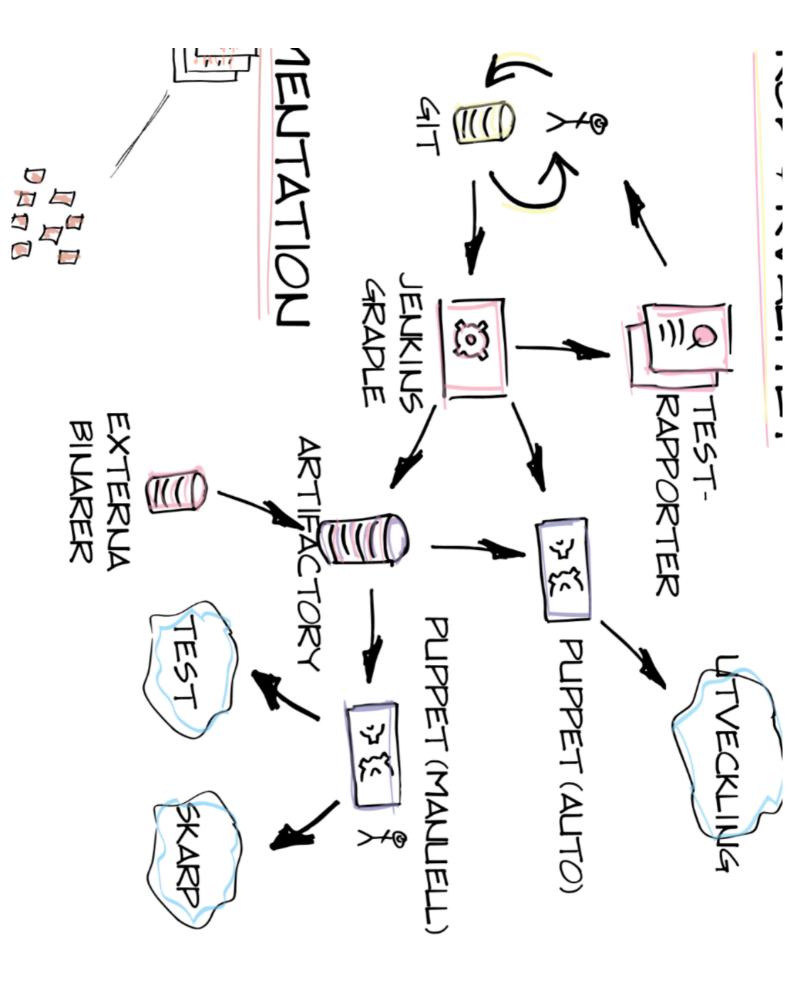


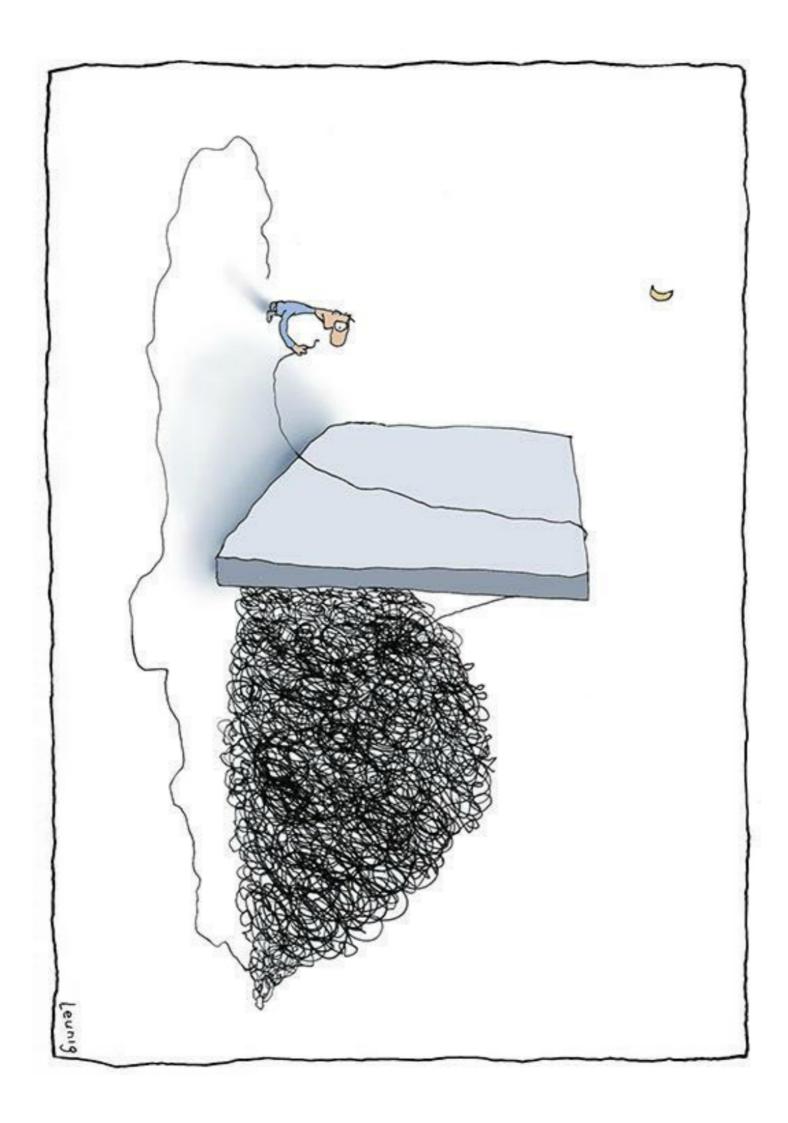


## **リーノアクヨノー**



CONFLUENCE









## **Build pipeline**























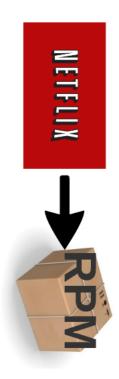




```
ospackage {
   packageName = project.name
   version = rpmVersion
   release = buildNumber
   os = LINUX
   user = "root"
```

installUtils file('src/main/rpm/utils.sh')
preInstall file('src/main/rpm/preInstall.sh')
preUninstall file('src/main/rpm/preUninstall.sh')

postInstall file('src/main/rpm/postInstall.sh')



```
from('./src/main/scripts') {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  from('./build/libs') {
   into('/opt/mtm-status/lib')
   include '*all.jar'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         into '/opt/mtm-status'
link('/etc/init.d/mtm-status', '/opt/mtm-status/scripts/mtm-status.sh')
                                                                                                                  into('/opt/mtm-status/scripts')
                                                                                                                                                                                                                                                                                                                                                   rename { String fileName ->
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rename { String fileName ->
                                                                                                                                                                                                                                      fileMode = 0555
                                                                                       fileMode = 0755
                                                                                                                                                                                                                                                                                                                      fileName.replace('SNAPSHOT', '')
                                                                                                                                                                                                                                                                                                                                                                                                                                             fileName.replace('-' + version + '-', '')
```



```
artifactoryPublish {
   dependsOn jar, sourceJar, javadocJar
```



```
gradlePuppet {
   utvHosts =
testHosts = ['statustest1.mtm.se']
prodHosts = ['status1.mtm.se']
                                                  ['statusutv1.mtm.se']
```

#### **Problems**

No manager buy in

**SNAPSHOT versions** 

Too many requests to Red Hat

SNAPSHOT not allowed in the RPM version number

Branches for the Puppet manifests

## **S** X

## Start small

## Every improvement counts

$$1.01 ^ 365 = 37.8$$

$$1.0.1^{200} = 7.3$$

Not bad while keeping a sustainable pace...

## You will make mistakes



Learn or succeed!

# Version control everything

to replace in a few minutes. The build server should be possible

## Automate your testing

Fast

Reliable

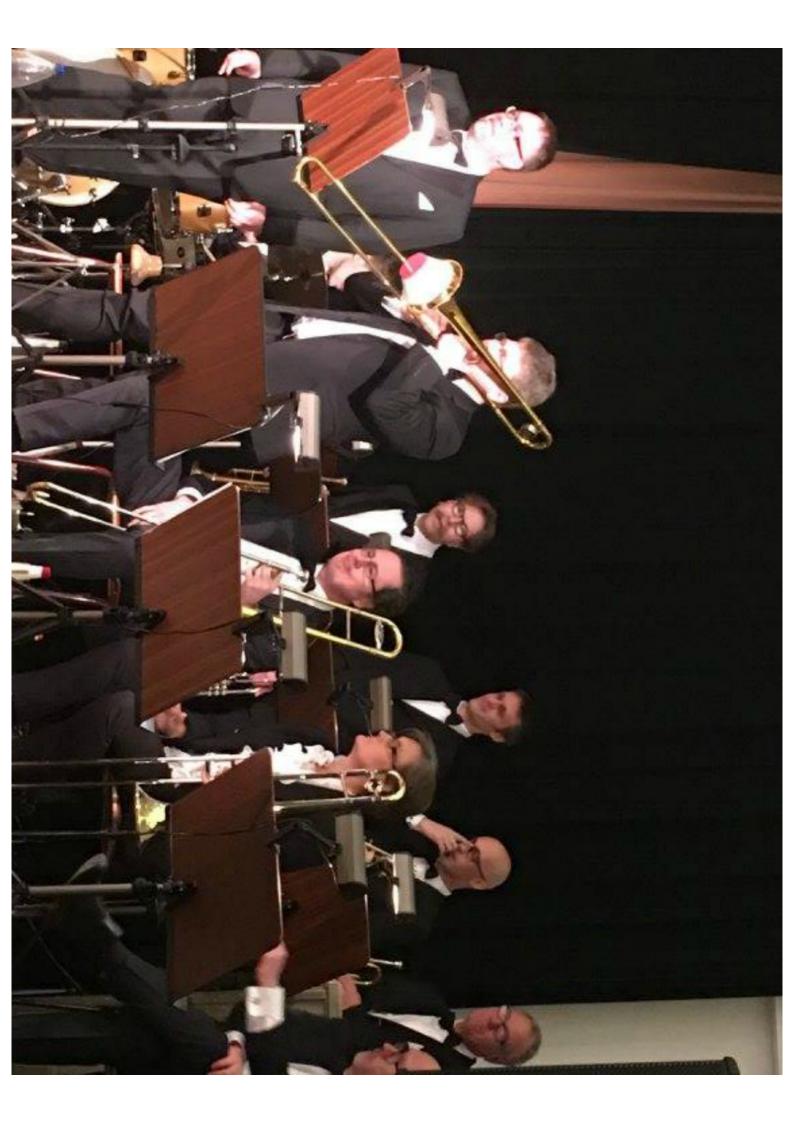
False positives creates distrust

## Practice

First in test

Then in production

Amateurs practice until they can make it, professionals until they cant fail.



Be preparec

Get a map Set a direction

You will never be done...

### Perfect is not a it is a direction! place,



#### Conclusion

# Continuous deployment

## Not a technical problem

## People problem

Changes are scary

Managment doesn't see the benefit

### References

Blog post:

http://www.thinkcode.se/blog/2015/12/23/continuous-deployment-a-case-study

Gradle plugins:

https://github.com/nebula-plugins/nebula-ospackage-plugin

https://github.com/mtmse/gradle-puppet-plugin https://github.com/mtmse/gradle-artifactory-rpm-plugin

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