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*Ministerie van Verkeer en Waterstaat*

# JBoss EAP 6

bouwsteen

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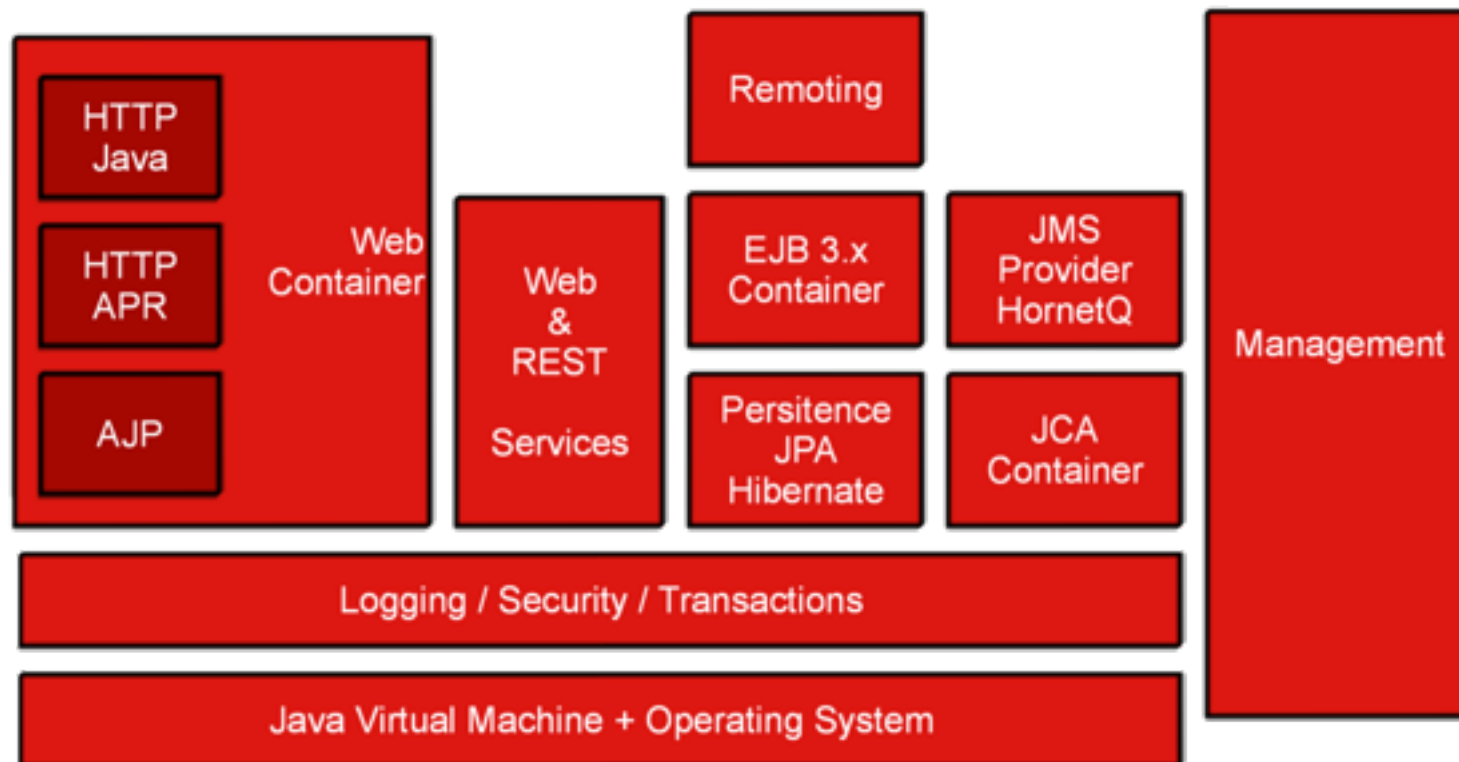
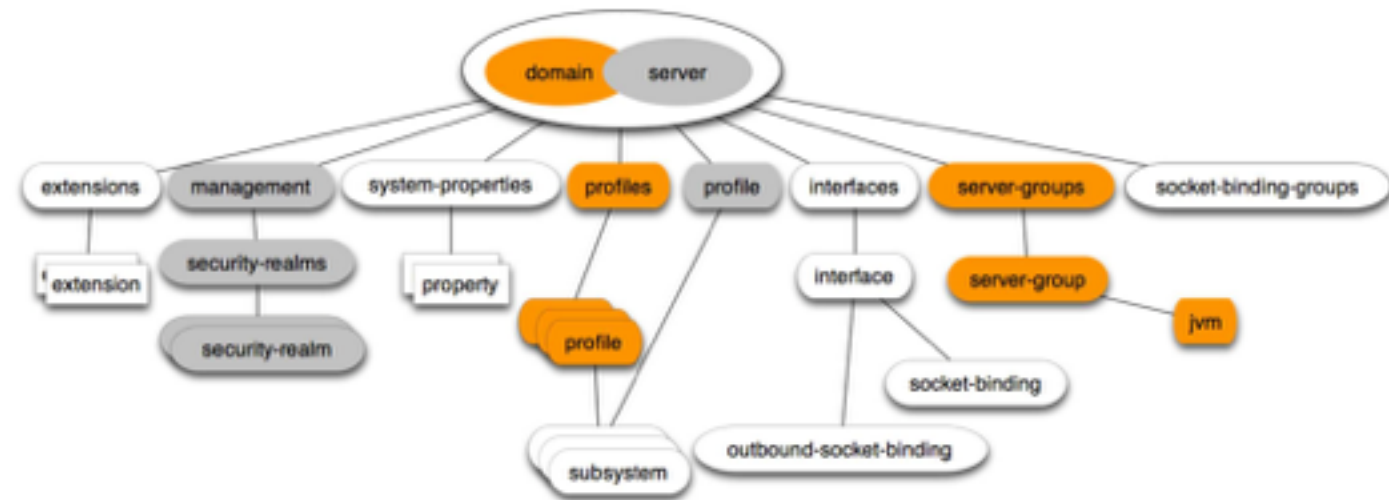
# Agenda

- wat is JBoss EAP 6
- is opgeleverd: jboss eap 6 classic
- wens: jboss eap 6 containerized
- demo

# Wat is JBoss EAP 6

- Gebaseerd op JBoss AS 7
- Profielen, Web & Full
- domein mode - standalone

EAP 6 Configuration Tree Structure



<https://access.redhat.com/support/configurations/jboss>

<https://access.redhat.com/knowledge/articles/112673>

# Bestaande JBoss bouwsteen vs JBoss EAP 6 bouwsteen

- grote memory footprint
- veel legacy
- onduidelijke structuur
- verschillende configuratiefiles

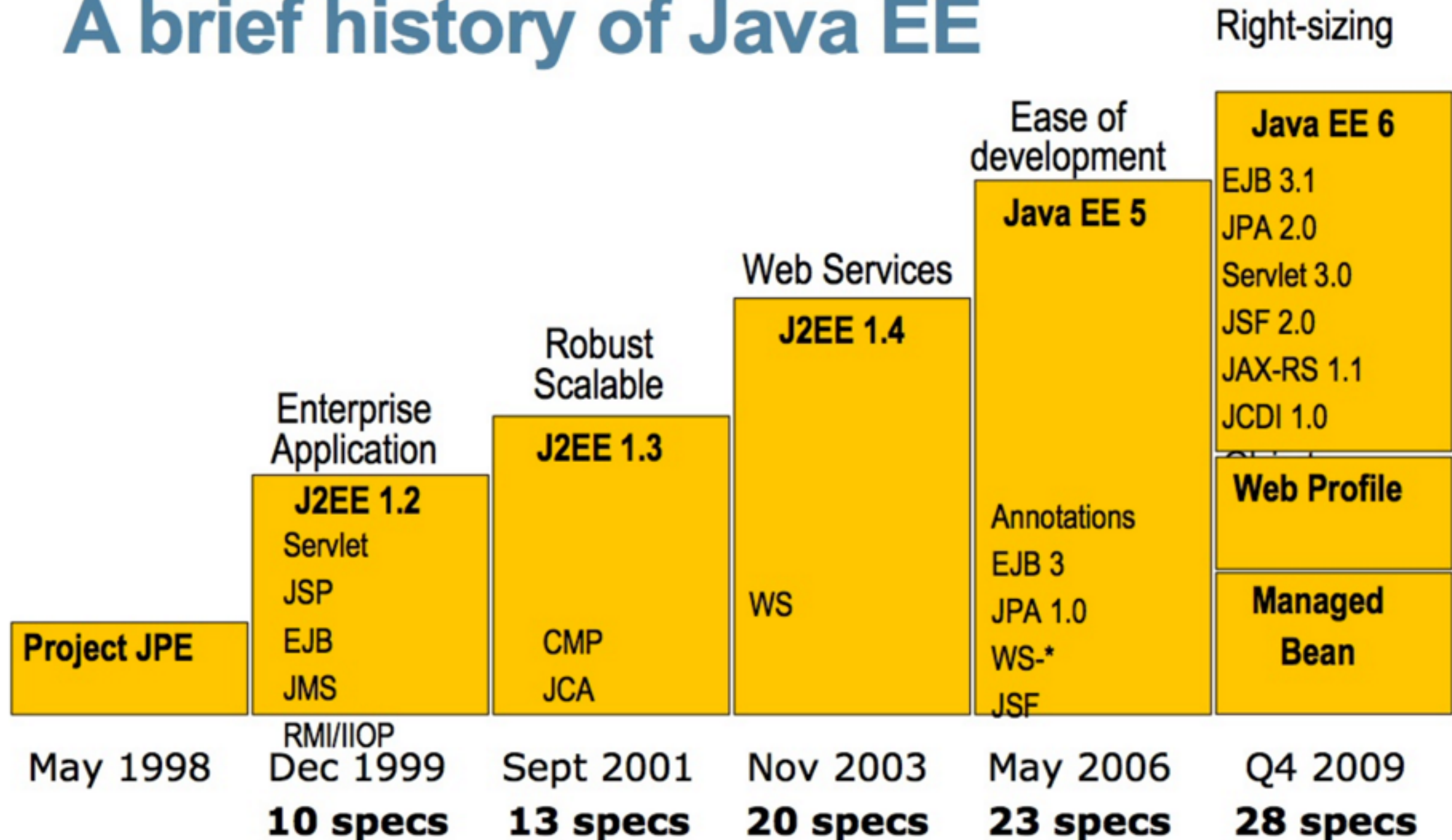
- complete rework op basis van EE6 standaarden
- sneller
- duidelijke structuur, modulair
- 1 configuratie file
- cli & verbeterde interface
- geen JON
- MAVEN



# Java EE 6

Java EE 8 +/- 2017

## A brief history of Java EE



# EE6 voorbeeld

## EJB 2.X

DEPLOYMENT DESCR

```
public class BankBean implements SessionBean{
    private SessionContext context;

    public void setContext(SessionContext context) { /* ... */ }
    public void ejbActivate() throws EJBException, RemoteException { /* ... */ }
    public void ejbPassivate() throws EJBException, RemoteException { /* ... */ }
    public void ejbRemove() throws EJBException, RemoteException { /* ... */ }
    public void ejbCreate throws EJBException, RemoteException { /* ... */ }
    public void setSessionContext(SessionContext ctx)
        throws EJBException, RemoteException { /* ... */ }
```

```
<enterprise-beans>
  <session>
    <display-name>BankSB</display-name>
    <ejb-name>BankBean</ejb-name>
    <local-home>com.advocacy.legacy.ejb.BankLocalHome</local-
home>
    <local>com.advocacy.legacy.ejb.BankLocal</local>
    <ejb-class>com.advocacy.legacy.ejb.BankBean</ejb-class>
    <session-type>Stateless</session-type>
    <transaction-type>Container</transaction-type>
  </session>
</enterprise-beans>
```

CODE

## EJB 3.1

```
@Stateful
public class BankBean {
    public boolean deposit(double amount, Account account){...}
    public boolean transfer(double amount, Account from, Account to){...}
}
```

Geen DD meer nodig, meer functies, makkelijker!!!

# Profielen

## default

most commonly used subsystems: logging, security, configadmin, jpa, transactions, mail, datasources, infinispan, weld, webservices, ee and ejb3

## ha

**default** + jgroups and modcluster subsystems (cluster)

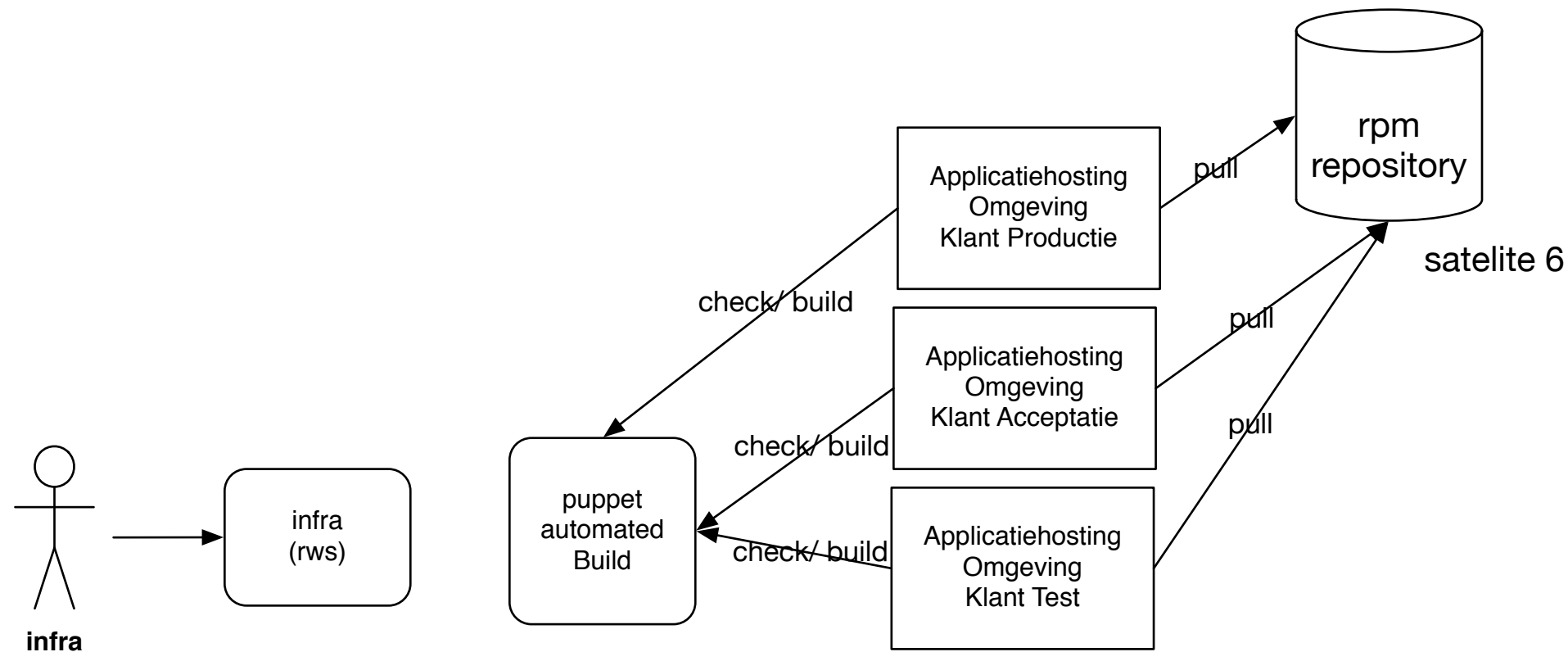
## full

**default** + messaging subsystem (HornetQ), cmp, jacob, jax

## full-ha

full + jgroups and modcluster subsystems (cluster)

# Is opgeleverd, classic

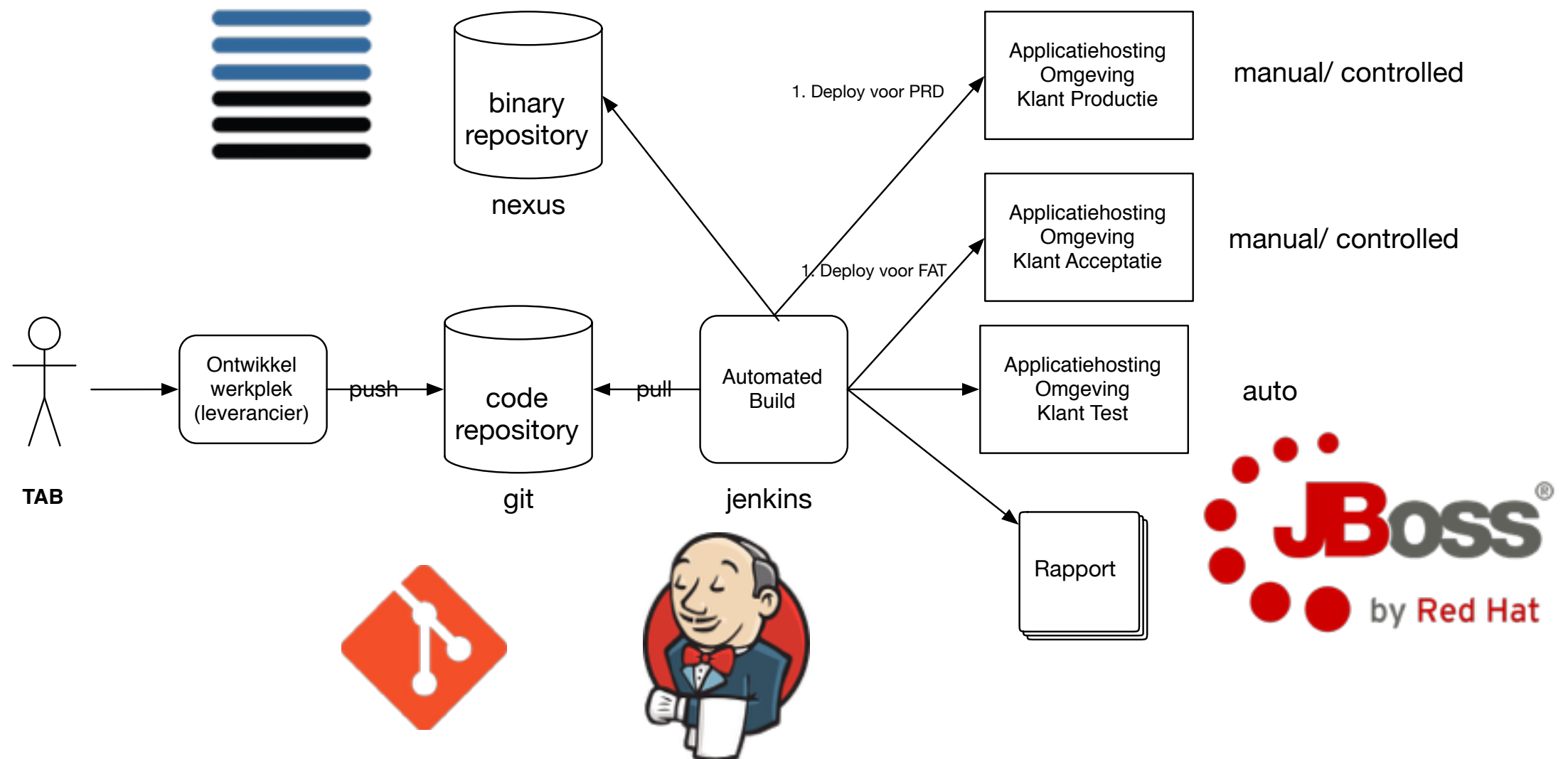


Spec file—> Satelite —> Puppet Modules —> config yaml

Documentatie: HLD, SOW, Gebr. HL, Beh HL, TO, FO



# Deployment classic

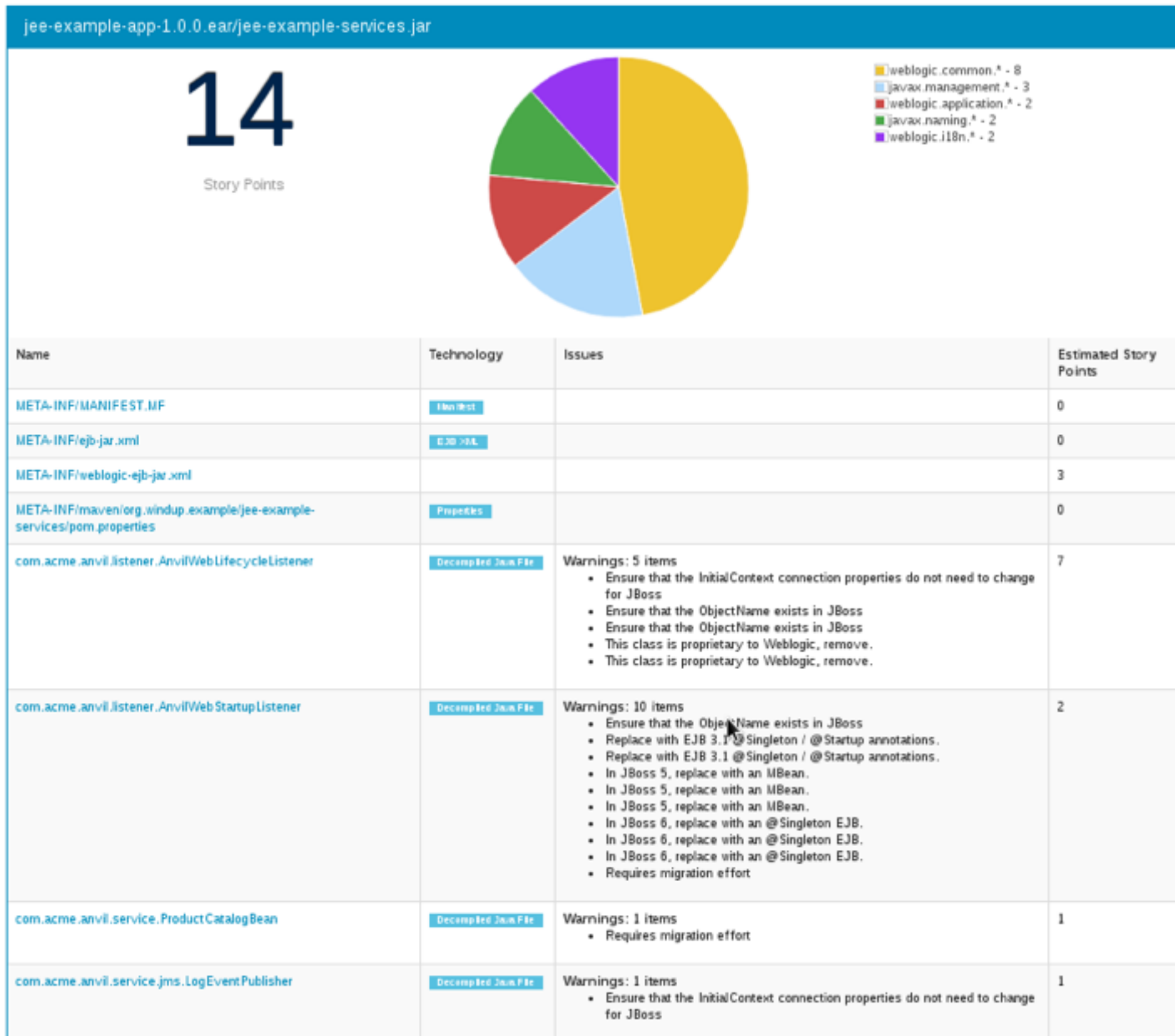


code / deployables

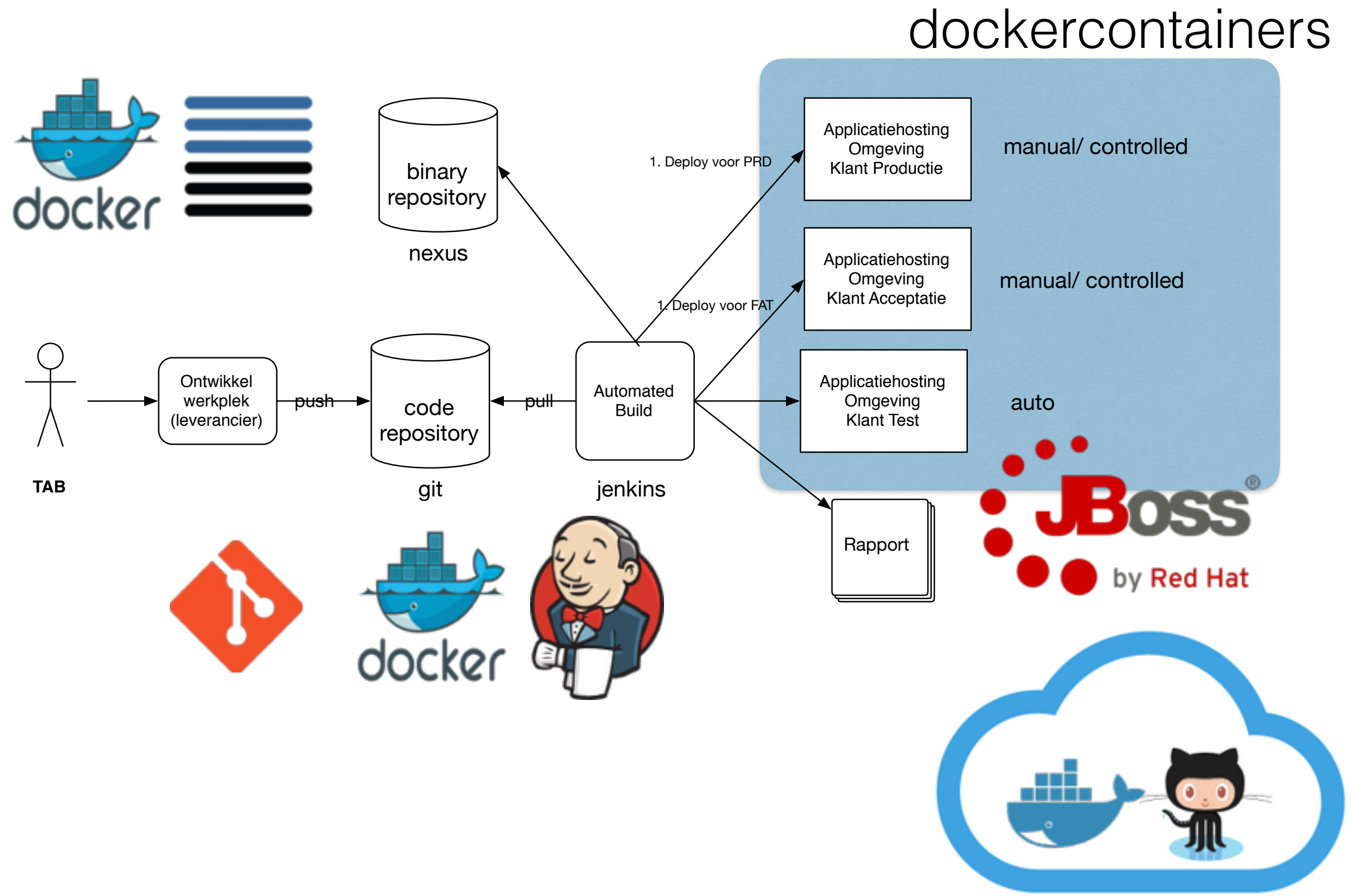
# Migratie

- Statement of Welcome
- code migratie EE6 —> tooling —> windup
- aanmaken infra (Beheerhandleiding)
- aanmaken jenkins project (Gebruikershandleiding)
- testen
- project migratie naar maven + jboss-as plugin (Gebruikershandleiding)

# Windup



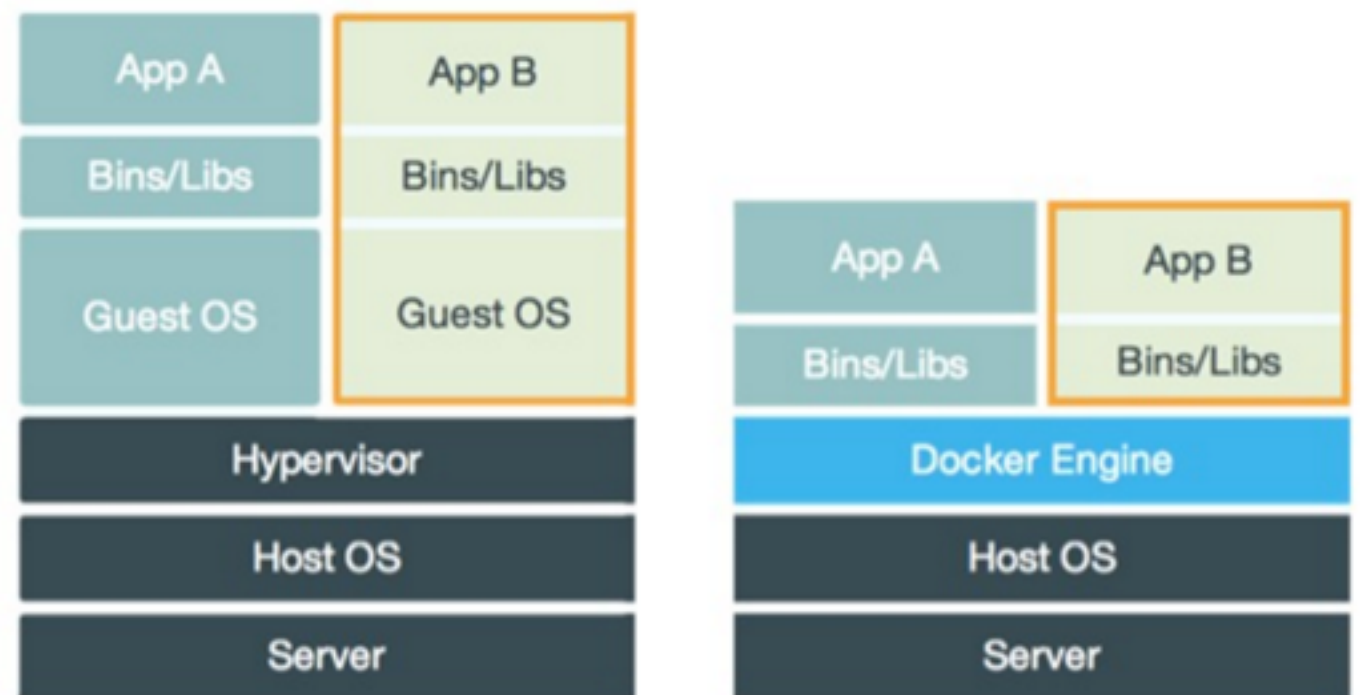
# JBoss EAP 6 containerized



# Docker



- The way to go
- Geautomatiseerd/ herhaalbaar
- Hardware agnostisch
- Geïsoleerd
- Efficient





# Demo



**OPENSIFT**



- deployment classic
- deployment classic + docker
- deployment classic + docker + paas