

# Containerizing Middleware Applications

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# Definitions & Technologies

- Container
  - Docker
- Middleware
- Orchestration
  - Kubernetes
    - OpenShift

# First Steps: Inheritance heirarchy

RHEL

↳ base

↳ base JDK

↳ standalone

↳ OpenShift

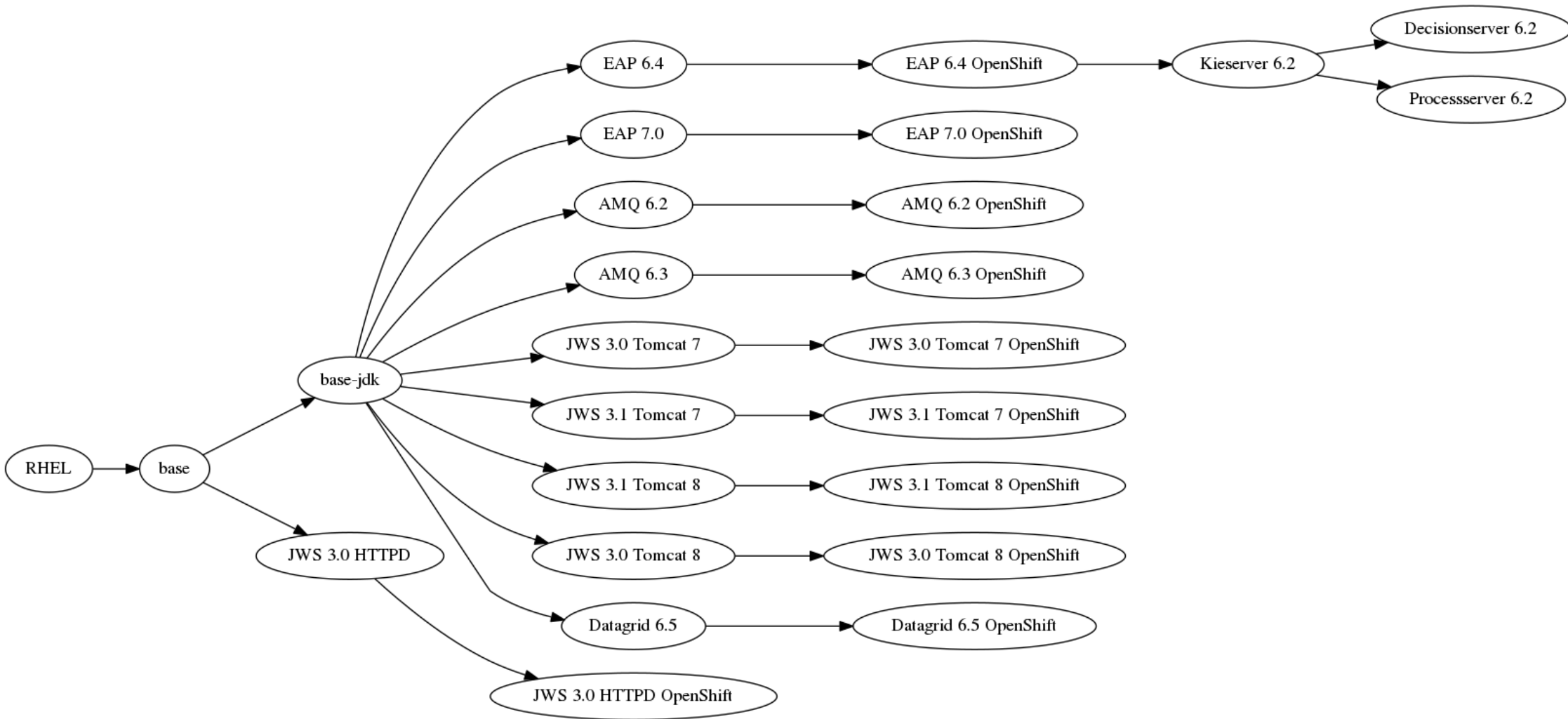
## Dockerfile example

```
FROM jboss-base-7/jdk8:1.2
ENV JBOSS_IMAGE_VERSION=1.2
...
ADD some-script.sh /tmp
USER 0
RUN chmod +x /tmp/some-script.sh \
    && /tmp/some-script.sh \
    && rm /tmp/some-script.sh \
USER jboss
...
```

# OpenShift Integration

- turning features off
- integrating features
- runtime configuration

# Sharing scripts via inheritance



## Artefacts and private URIs

ADD `http://private.url/jboss-eap-7.0.0.GA.zip`

...

# Cekit

- Dockerfile pre-processor

image.yaml → cekit ⇒ Dockerfile,  
artefacts,  
shared scripts

<https://github.com/cekit/cekit>



## Cekit YAML example

```
name: "jboss-eap-7/eap71-openshift"
description: "Red Hat JBoss Enterprise"
version: "1.2"
from: "jboss-eap-7/eap71:latest"
labels:
  - name: "com.redhat.component"
    value: "jboss-eap-7-eap71-op
  - name: "io.k8s.description"
    value: "Platform for buildin
```

## Alternatives

- Ansible Container

<https://docs.ansible.com/ansible-container/>

# THANK YOU



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