

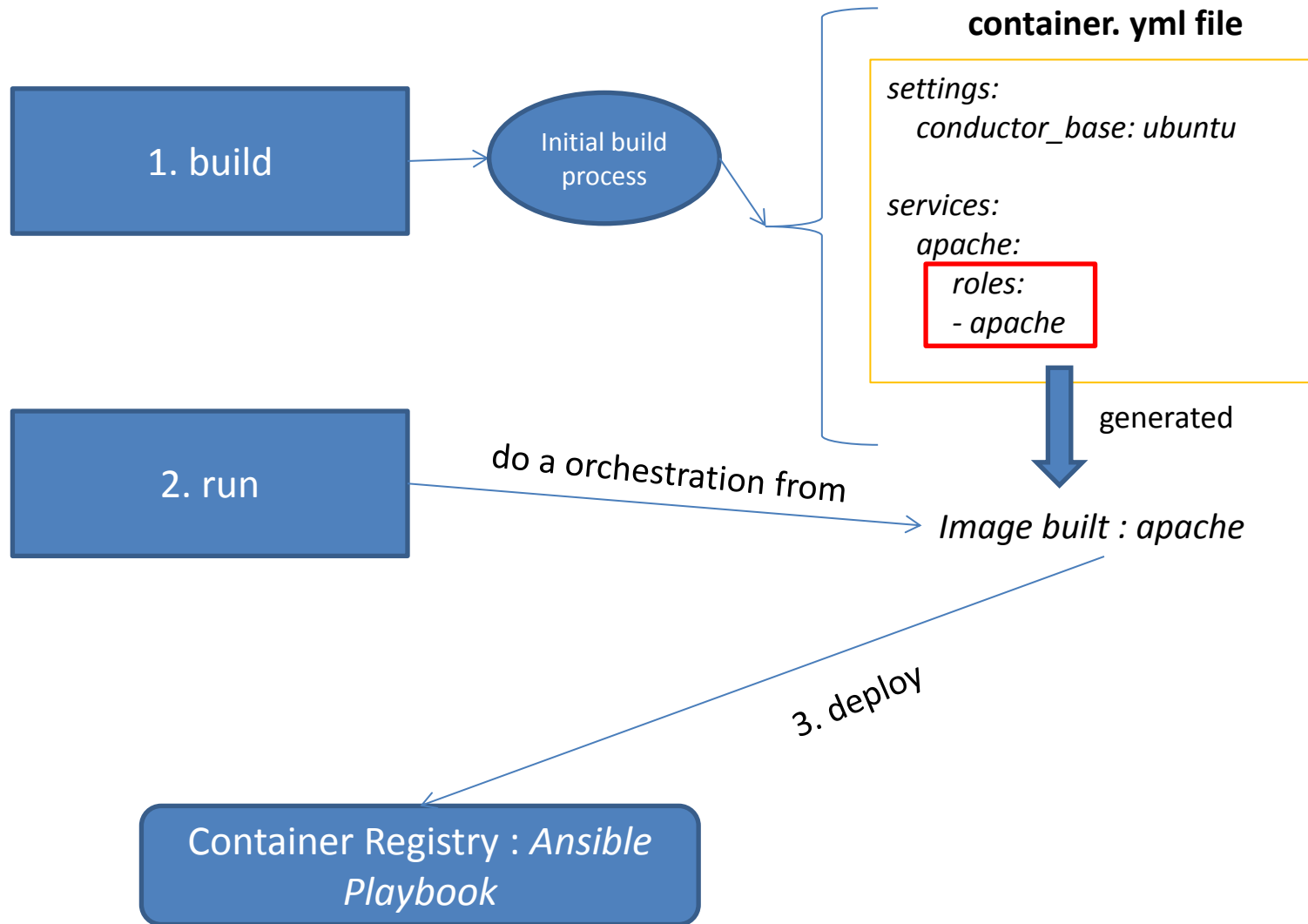
# From Dockerfiles to Ansible-container

WP2 - STAMP PROJECT

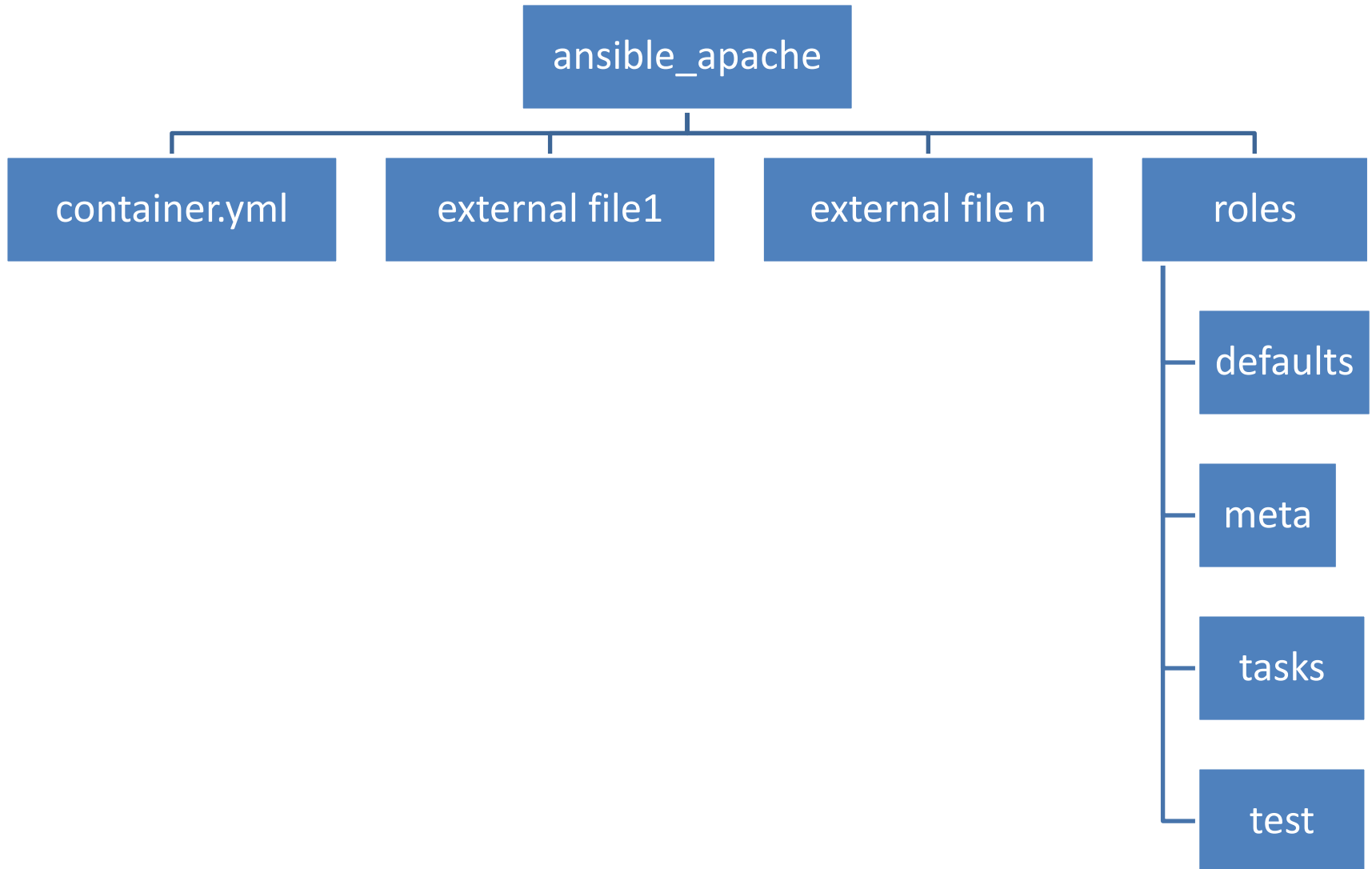


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# 1. Ansible container functionality



## 2. Project folder



# 3. Dockerfile

*settings:*  
*conductor\_base: ubuntu*

ARG VERSION latest

**FROM ubuntu: \$VERSION**

MAINTAINER Fernando Méndez Requena - fernando.mendez.external@atos.net

#Update the repository sources list

RUN apt-get update

#Install and run apache

RUN apt-get install -y apache2 && apt-get clean

ENV DIR\_APACHE=/apache

RUN mkdir \$DIR\_APACHE

WORKDIR \$DIR\_APACHE

#ADD mpm\_prefork.conf \$DIR\_APACHE

RUN cd /etc/apache2/mods-available && \

chmod 700 mpm\_prefork.conf && \

chmod 700 mpm\_worker.conf && \

echo "envsubst < \$DIR\_APACHE/mpm\_prefork-template.conf > ./mpm\_prefork.conf" \

echo "envsubst < \$DIR\_APACHE/mpm\_worker-template.conf > ./mpm\_worker.conf"

EXPOSE 80

CMD apachectl -D FOREGROUND

## 4. Container.yml file

ansible-container **import** ../Dockerfile

- The import command creates a container.yml file that defines a single service named **apaches**
- The container.yml file is your orchestration file that expresses what services you have and how to build/run them

*settings:*

*conductor\_base: ubuntu*

***services:***

***apaches:***

***roles:***

***- apache***

Each of the containers you wish to orchestrate should be under the *services* key

- Each role you specify needs to be in a *roles/* directory in your project

## 5. Tasks/main.yml file

- Has **RUN/ADD/COPY** instructions found in the Dockerfile.
  - name: comment
  - sheel: commands

Example:

- *name: Install and run apache*
- *shell: apt-get install -y apache2 && apt-get clean*

## 6. Meta/container.yml file

- Metadata from Dockerfile:

in /home/./ansible-container/ansible\_apache/roles/meta

These will be used as build/run defaults for your role.

*from: ubuntu*

*maintainer: Fernando Mendez Requena - fernando.mendez@atos.net*

*environment: DIR\_APACHE: /apache*

*working\_dir: "{{ lookup('env', 'DIR\_APACHE') }}"*

*ports:*

*- '80'*

*command: apachectl -D FOREGROUND*

## 7. Defaults/main.yml

- The ARG vars from Dockerfiles becomes a variable in the role:

Example:

```
playbook_debug: false
```

```
VERSION latest: '~'
```