## **Profiles**

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With profiles you can define a set of active profiles so your Compose application model is adjusted for various usages and environments.

The services top-level element supports a profiles attribute to define a list of named profiles. Services without a profiles attribute are always enabled.

A service is ignored by Compose when none of the listed profiles match the active ones, unless the service is explicitly targeted by a command. In that case its profile is added to the set of active profiles.

## Note

All other top-level elements are not affected by profiles and are always active.

References to other services (by links, extends or shared resource syntax service:xxx) do not automatically enable a component that would otherwise have been ignored by active profiles. Instead Compose returns an error.

## **Illustrative example**

```
services:
web:
  image: web_image
 test_lib:
  image: test_lib_image
  profiles:
    - test
 coverage_lib:
  image: coverage_lib_image
  depends_on:
     - test_lib
  profiles:
     - test
debug_lib:
  image: debug_lib_image
  depends_on:
     - test lib
  profiles:
     - debug
```

In the above example:

- If the Compose application model is parsed with no profile enabled, it only contains the web service.
- If the profile test is enabled, the model contains the services test\_lib and coverage\_lib, and service web, which is always enabled.
- If the profile debug is enabled, the model contains both web and debug\_lib services, but not test\_lib and coverage\_lib, and as such the model is invalid regarding the depends\_on constraint of debug\_lib.
- If the profiles debug and test are enabled, the model contains all services; web, test\_lib, coverage\_lib and debug\_lib.
- If Compose is executed with test\_lib as the explicit service to run, test\_lib and the test profile are active even if test profile is not enabled.
- If Compose is executed with coverage\_lib as the explicit service to run, the service coverage\_lib and the profile test are active and test\_lib is pulled in by the depends\_on constraint.
- If Compose is executed with debug\_lib as the explicit service to run, again the model is invalid regarding the depends\_on constraint of debug\_lib, since debug\_lib and test\_lib have no common profiles listed.
- If Compose is executed with debug\_lib as the explicit service to run and profile test is enabled, profile debug is automatically enabled and service test\_lib is pulled in as a dependency starting both services debug\_lib and test\_lib.

See how you can use profiles in **Docker Compose**.