

DevOps Sesión 3 (2022-02-16) Docker

Documentación relacionada

- 1-Despliegue de Aplicaciones Docker
- ./1-Curso Alumnos Docker.pdf, pag. 147
- ./Docker-Resumen/Laboratorio docker redes wp+mysql.txt
- ./1-Curso Alumnos Docker.pdf, pag. 164
- ./1-Curso Alumnos Docker.pdf, pag. 195
- ./docker-compose acciones.txt

Docker

redes

- `docker network ls`
 - atención al driver y el scope
 - las redes por defecto no pueden ser eliminadas: bridge, host, none
 - bridge: red por defecto. En Linux durante la instalación se crea una nueva interfaz de red virtual llamada `docker0`. Cuando ejecutamos un contenedor, por defecto, utiliza esta red a no ser que especifiquemos lo contrario.
 - none: Utilizando esta red, el contenedor no tendrá asociada ninguna interfaz de red, solo la de loopback (lo).
 - host: utilizando esta red, el contenedor tendrá la misma configuración que el servidor Docker Engine donde se este ejecutando.
 - interfaz **docker0** → 172.17.0.0/16
- `docker network create ...`
 - **-d**: bridge, ipvlan, macvlan, overlay
 - se creamos nueva red, le asigna el siguiente rango → 172.18.0.0/16
 - **--subnet 192.168.100.0/24 --ip-range 192.168.100.100/30 --gateway 192.168.100.100**
 - **--ip <IPFIJA>**: solo a redes creadas con **subnet**
- DNS
 - resuelve con los DNS del docker Engine
 - se puede pasar por parámetro
 - `consul.io`
- `docker run --network ...`: ejecuta contenedor en la red específica
- ejemplo docker-redes wp
 - **--link**: enlaza contenedores en red, parámetro deprecado
 - **--add-host=<alias>:<ip>**: enlaza con un servidor externo a la red docker
 - **extra_hosts**: variante docker-compose

volumes

- <https://docs.docker.com/storage/volumes/>
- maneras de montar volúmenes:

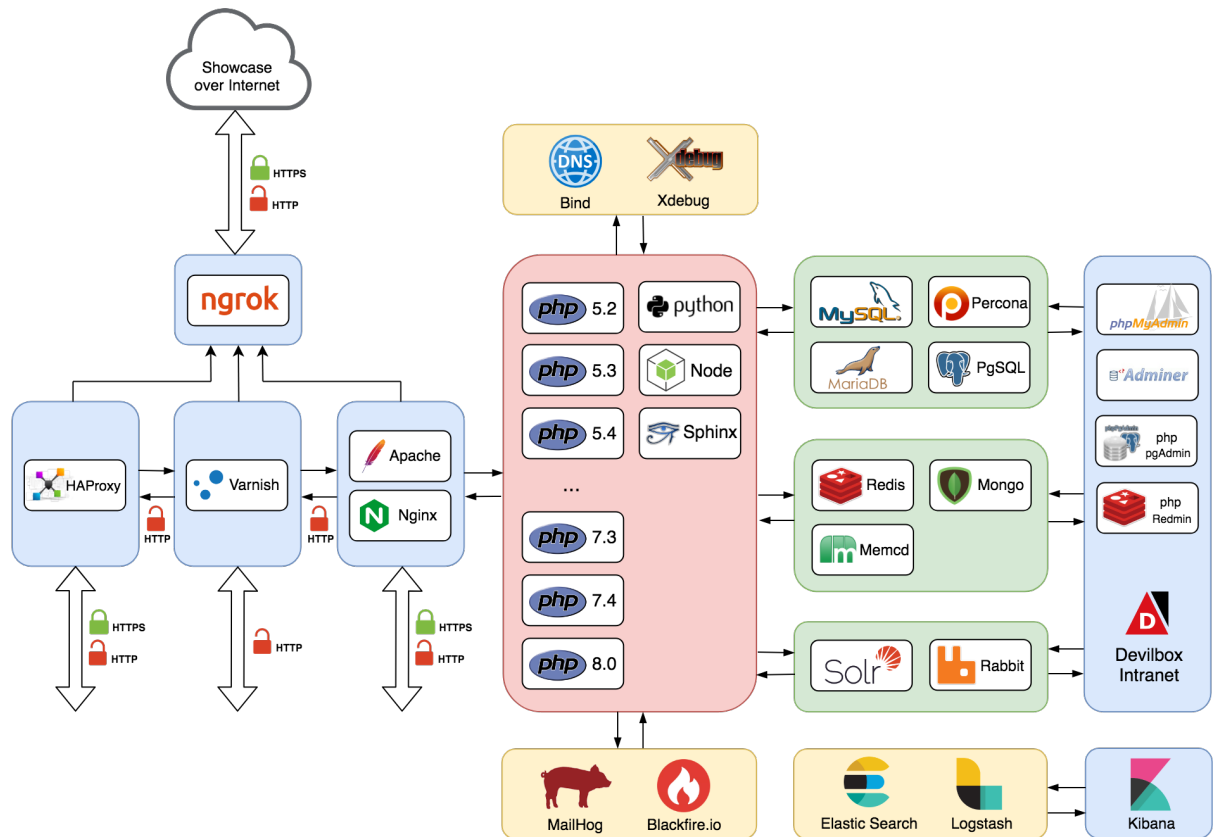
- **--mount**: más parámetros
- **-v**
 - **-v /var/www/html**: creará un volumen donde persistirá los datos
 - `docker volume inspect <VOLUME_ID>`
 - **/var/lib/docker/volumes/<ID_VOLUMES>/_data**
 - **-v ./data/html:/var/lib/mysql**: mapea un directorio local para persistir datos
 - **-v <VOLUME_NAME>:/var/lib/mysql**
 - `docker volume create --name <VOLUME_NAME>`
 - `docker run -v <VOLUME_NAME>:/var/lib/mysql ...`
- pag.177 → docker plugins

docker-compose

- pag. 195
 - no está en docker Engine, se instala aparte.
 - <https://docs.docker.com/compose/compose-file/>
 - <https://docs.docker.com/compose/reference/>
 - `docker-compose ps`
 - `docker-compose up [-d]`
 - `docker-compose down`
 - `docker-compose start <service>`
 - `docker-compose stop <service>`
 - `docker-compose config`
 - `docker-compose port`
 - `docker-compose logs <service>`
- | | |
|----------------|---|
| • build | Build or rebuild services |
| bundle | Generate a Docker bundle from the Compose file |
| config | Validate and view the Compose file |
| create | Create services |
| down | Stop and remove containers, networks, images, and volumes |
| events | Receive real time events from containers |
| exec | Execute a command in a running container |
| help | Get help on a command |
| images | List images |
| kill | Kill containers |
| logs | View output from containers |
| pause | Pause services |
| port | Print the public port for a port binding |
| ps | List containers |
| pull | Pull service images |
| push | Push service images |
| restart | Restart services |
| rm | Remove stopped containers |
| run | Run a one-off command |
| scale | Set number of containers for a service |
| start | Start services |
| stop | Stop services |
| top | Display the running processes |
| unpause | Unpause services |
| up | Create and start containers |
| version | Show the Docker-Compose version information |

Extra

- adminer: gestor BDD PHP (container) → https://hub.docker.com/_/adminer
- docker-compose
 - <https://docs.docker.com/compose/networking/>
 - <https://docs.docker.com/compose/cli-command/#install-on-linux>
 - https://docs.docker.com/compose/compose-file/compose-file-v3/#ipv4_address-ipv6_address
 - <https://docs.docker.com/compose/compose-file/compose-file-v3/#network-configuration-reference>
- docker network create -d bridge --subnet=172.18.0.0/16 --ip-range=172.18.0.0/24 --gateway=172.18.0.254 develop
- devilbox: plataforma LAMP en docker
 - <http://devilbox.org/>



From:
<https://matebcn.eu/> - miguel angel torres egea

Permanent link:
<https://matebcn.eu/info:cursos:pue:devops2022:s3>

Last update: 09/03/2022 18:41

