

WORKSPACE PARA PROJETOS PHP / LARAVEL

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Task : Criar um workspace com docker compose para rodar projetos em PHP

1. php 7.1
2. [composer](#) 1.8.4
3. nginx
4. mysql 5.7
5. [redis](#)

Etapas

1. Instalação do Docker

#Install Docker

```
sudo apt-get install docker-ce docker-ce-cli containerd.io
```

#Install Docker-compose

```
$sudo curl -L "https://github.com/docker/compose/releases/download/1.24.1/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose  
$ sudo chmod +x /usr/local/bin/docker-compose
```

```
$ sudo ln -s /usr/local/bin/docker-compose /usr/bin/docker-compose
```

2. Mapeamento de Volumes compartilhados

Criação do container para compartilhadas os arquivos e diretórios do projeto pelo compose

```
$docker volume create --name=proj_melhorenvio
```

Volume criado

```
root@Docker:/home/PROJETOS-GIT/.git# docker volume ls  
DRIVER          VOLUME NAME  
local           711dafa7a4839208cc22573caeec36fa6ba67aff1cb7d2bedb86987c5972b15a  
local           3808f6a92516ec4f4c975eefd8dd0e9c141777846cca5c43118e166c01a9df6d  
local           175601fa0bfd6c5688876dedb171859597cab87a3a0c3faf2a765a0c9e77f090  
local           proj_melhorenvio
```

3. Criação do Workspace

Execução do composer

```
root@Docker:/melhorenvio# docker-compose up  
mysql-container is up-to-date  
Starting melhorenvio_php_1 ... done  
Starting redis-container ... done  
Starting webserver ... done  
Starting melhorenvio_composer_1 ... done  
Attaching to mysql-container, redis-container, melhorenvio_php_1, melhorenvio_composer_1, webserver  
redis-container | 1:C 26 Oct 2019 03:12:16.684 # oOoOoOoOoOoOo Redis is starting oOoOoOoOoOoOo  
redis-container | 1:C 26 Oct 2019 03:12:16.685 # Redis version=5.0.6, bits=64, commit=00000000, modified=0, pid=1, just started  
redis-container | 1:C 26 Oct 2019 03:12:16.685 # Configuration loaded  
redis-container | 1:M 26 Oct 2019 03:12:16.690 * Running mode=standalone, port=6379.  
redis-container | 1:M 26 Oct 2019 03:12:16.690 # WARNING: The TCP backlog setting of 511 cannot be enforced because /proc/sys/net/  
ue of 128.  
redis-container | 1:M 26 Oct 2019 03:12:16.690 # Server initialized  
redis-container | 1:M 26 Oct 2019 03:12:16.690 # WARNING overcommit_memory is set to 0! Background save may fail under low memory.  
vercommit_memory = 1' to /etc/sysctl.conf and then reboot or run the command 'sysctl vm.overcommit_memory=1' for this to take effect  
redis-container | 1:M 26 Oct 2019 03:12:16.691 # WARNING you have Transparent Huge Pages (THP) support enabled in your kernel. This  
issues with Redis. To fix this issue run the command 'echo never > /sys/kernel/mm/transparent_hugepage/enabled' as root, and add  
tain the setting after a reboot. Redis must be restarted after THP is disabled.  
redis-container | 1:M 26 Oct 2019 03:12:16.691 * Ready to accept connections  
mysql-container | Initializing database  
mysql-container | 2019-10-25T22:42:40.537261Z 0 [Warning] TIMESTAMP with implicit DEFAULT value is deprecated. Please use --explicit  
n (see documentation for more details).  
mysql-container | 2019-10-25T22:42:53.249084Z 0 [Warning] InnoDB: New log files created, LSN=45790
```

#Containers ativos

```
docker-compose docker-compose_0
root@Docker:/melhorenvio# docker-compose ps

```

Name	Command	State	Ports
melhorenvio_composer_1	/bin/sh /docker-entrypoint ...	Exit 0	
melhorenvio_php_1	flask run	Up	
mysql-container	docker-entrypoint.sh mysqld	Up	3306/tcp
redis-container	docker-entrypoint.sh redis ...	Up	0.0.0.0:6379->6379/tcp
webserver	nginx -g daemon off;	Up	0.0.0.0:80->80/tcp

```
root@Docker:/melhorenvio#
```

4. Desafios

- Para execução das tarefas, não possui-se nenhum conhecimento e experiência prática sobre docker-composer, git e administração contêineres, portanto foi necessário investir um tempo a mais de estudo nas ferramentas do docker, utilizadas na criação desta tarefa .
- Testes de parametrização com dockerfile, e criação do arquivo docker-compose.yaml.