

DevOps Certification Training

Docker Assignment 2

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An organization XYZ Private Limited is developing a blogging platform using WordPress and MySQL. They have containerized their application. Now they are seeking your help in writing a docker-compose file to manage both the application together.

You are requested to do following task :

1. Install docker-compose.
2. Write a docker-compose file for running MySQL and WordPress application.
3. Configure the db connection and volumes for data persistence in the compose file.
4. Run both the containers by running docker-compose command.
5. Verify WordPress application is accessible.
6. Verify MySQL db is accessible.
7. Stop both the containers by running docker-compose command.

```
root@ip-172-31-15-165:~# curl -SL https://github.com/docker/compose/releases/download/v2.16.0/docker-compose-linux-x86_64 -o /usr/local/bin/docker-compose
```

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	Current
			Dload	Upload	Total	Spent	Left
0	0	0	0	0	--:--:--	--:--:--	0
100	45.4M	100	45.4M	0	9657k	0	0:00:04 0:00:04 --:--:-- 11.6M

```
root@ip-172-31-15-165:~# chmod +x /usr/local/bin/docker-compose
```

```
root@ip-172-31-15-165:~# docker-compose -version
```

```
unknown shorthand flag: 'e' in -ersion
```

```
root@ip-172-31-15-165:~# docker-compose --version
```

```
Docker Compose version v2.16.0
```

```
root@ip-172-31-15-165:~# cd /opt
```

```
root@ip-172-31-15-165:/opt# vi docker-compose.yaml
```

```
root@ip-172-31-15-165:/opt# ls
```

```
containerd docker-compose.yaml
```

```
root@ip-172-31-15-165:/opt# docker-compose up
```

```
[+] Running 2/1
```

```
:: Container opt-database-1 Created 0.1s
```

```
:: Container opt-wordpress-1 Created 0.1s
```

```
Attaching to opt-database-1, opt-wordpress-1
```

The screenshot shows the WordPress dashboard interface. At the top, there's a blue banner with the text 'Welcome to WordPress!' and a link to 'Learn more about the 6.1.1 version.' Below this, there are three main sections: 'Author rich content with blocks and patterns', 'Customize your entire site with block themes', and 'Switch up your site's look & feel with Styles'. Each section has a brief description and a link to further resources. At the bottom, there's a 'Site Health Status' section indicating 'No information yet...' and a 'Quick Draft' section with fields for 'Title' and 'Content'. The dashboard is user-friendly and provides a clear overview of the site's current state and available actions.

```
root@ip-172-31-15-165:/opt# docker-compose down
```

```
[+] Running 3/3
```

```
:: Container opt-wordpress-1 Removed 1.7s
```

```
:: Container opt-database-1 Removed 1.4s
```

```
:: Network opt_default Removed 0.1s
```