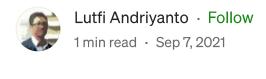








Deploy Domjudge Using Docker Compose



▶ Listen (↑ Share

Domjudge is Competitive Programming platform.

Enable cgroup

- In /etc/default/grub, add 'cgroup_enable=memory swapaccount=1' to GRUB_CMDLINE_LINUX_DEFAULT. Or 'cgroup_enable=memory swapaccount=1 systemd.unified_cgroup_hierarchy=0' for modern linux distro.
- Run update-grub
- Reboot

Create docker compose file

```
1
     # docker-compose.yml
 2
     version: '3.9'
 3
 4
 5
     networks:
 6
       domjudge:
         name: domjudge
 7
 8
     services:
 9
       mariadb:
10
         container_name: mariadb
11
12
         image: mariadb:latest
13
         networks:
14
           - domjudge
15
         ports:
           - 13306:3306
16
17
         environment:
           - MYSQL_ROOT_PASSWORD=rootpw
18
           - MYSQL_USER=domjudge
19
20
           - MYSQL_PASSWORD=djpw
21
           - MYSQL_DATABASE=domjudge
         command: --max-connections=1000
22
23
24
       domserver:
25
         container name: domserver
         image: domjudge/domserver:latest
26
         volumes:
27
           - /sys/fs/cgroup:/sys/fs/cgroup:ro
28
29
         networks:
30
           - domjudge
         ports:
31
32
           - 12345:80
33
         depends_on:
           - mariadb
34
35
         environment:
36
           - CONTAINER_TIMEZONE=Asia/Jakarta
37
           - MYSQL_HOST=mariadb
38
           - MYSQL_ROOT_PASSWORD=rootpw
39
           - MYSQL_USER=domjudge
40
           - MYSQL_PASSWORD=djpw
41
           - MYSQL DATABASE=domjudge
42
       judgehost-0:
43
         container_name: judgehost-0
44
         image: domjudge/judgehost:latest
45
         privileged: true
46
47
         hostname: judgedaemon-0
1 Q
         volumes.
```

```
40
         volumes.
49
           - /sys/fs/cgroup:/sys/fs/cgroup:ro
50
         networks:
51
           - domjudge
52
         depends_on:
53
           - domserver
54
         environment:
           - DAEMON_ID=0
55
56
           - JUDGEDAEMON_PASSWORD=9NQLNMcLCr8zu0gB
57
       judgehost-1:
58
59
         container_name: judgehost-1
60
         image: domjudge/judgehost:latest
61
         privileged: true
         hostname: judgedaemon-1
62
63
         volumes:
           - /sys/fs/cgroup:/sys/fs/cgroup:ro
64
         networks:
65
           - domjudge
66
67
         depends_on:
68
           - domserver
69
         environment:
70
           - DAEMON ID=1
           - JUDGEDAEMON_PASSWORD=9NQLNMcLCr8zu0gB
71
72
73
       judgehost-2:
         container_name: judgehost-2
74
75
         image: domjudge/judgehost:latest
76
         privileged: true
77
         hostname: judgedaemon-2
78
         volumes:
79
           - /sys/fs/cgroup:/sys/fs/cgroup:ro
80
         networks:
           - domjudge
81
         depends_on:
82
83
           - domserver
84
         environment:
           - DAEMON_ID=2
85
           - JUDGEDAEMON_PASSWORD=9NQLNMcLCr8zu0gB
86
87
88
       judgehost-3:
         container_name: judgehost-3
89
90
         image: domjudge/judgehost:latest
         privileged: true
91
         hostname: judgedaemon-3
92
93
         volumes:
94
           - /sys/fs/cgroup:/sys/fs/cgroup:ro
95
         networks:
```

```
96 - domjudge
97 depends_on:
98 - domserver
99 environment:
100 - DAEMON_ID=3
101 - JUDGEDAEMON_PASSWORD=9NQLNMcLCr8zu0gB
```

Activate mariadb and domserver

Type on terminal:

```
docker-compose up -d mariadb domserver
```

Change JUDGEDAEMON_PASSWORD

To get judgehost password, type on terminal:

```
docker exec -it domserver cat /opt/domjudge/domserver/etc/restapi.secret
```

Activate judgehost

You can create any number of judgehost you want by modifying docker-compose.yml file. Remember that you have to change JUDGEDAEMON_PASSWORD first in your docker-compose.yml file.

To activate judgehost, type on terminal:

```
docker-compose up -d
```

Domjudge is ready to use

You can open http://localhost:12345 (or anything your IP address is). To get admin password, type on terminal:

```
docker exec -it domserver cat
/opt/domjudge/domserver/etc/initial_admin_password.secret
```

Useful commands

- docker-compose ps
- docker-compose logs
- docker-compose up (create containers and network, than start them)

- docker-compose stop (only stop, can be start later on)
- docker-compose start (start stopped network and containers)
- docker-compose down (stop and delete network and containers)

Domjudge

Domserver

Judgehost

Docker

Docker Compose



Written by Lutfi Andriyanto

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Backend Developer

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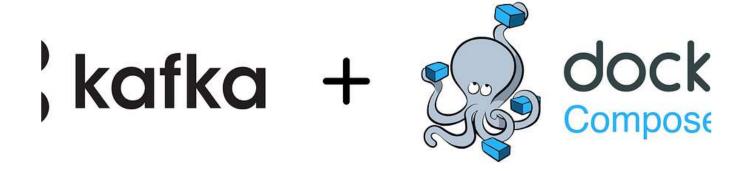
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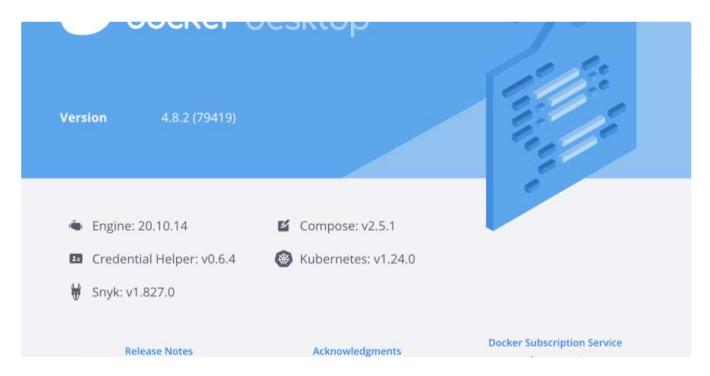




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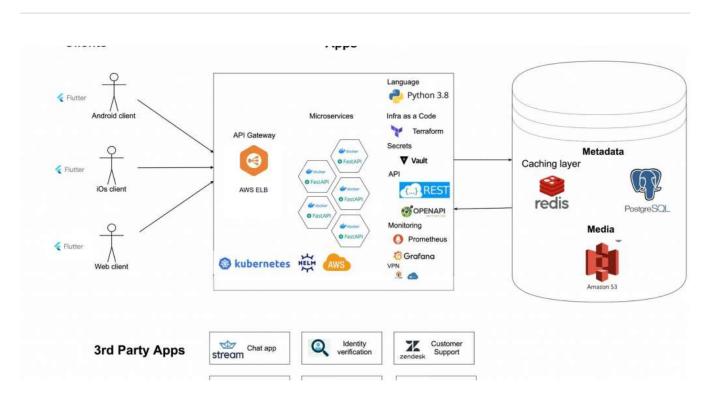
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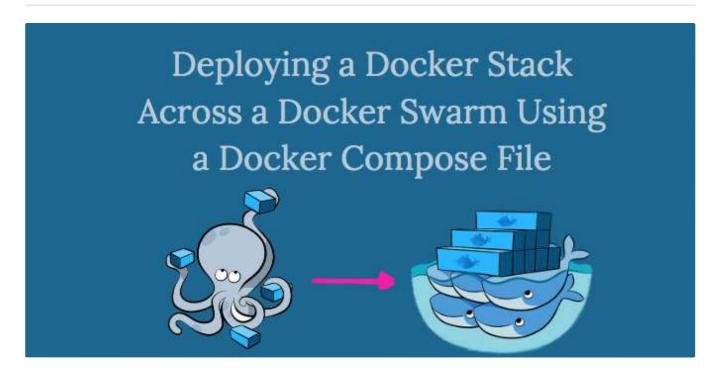
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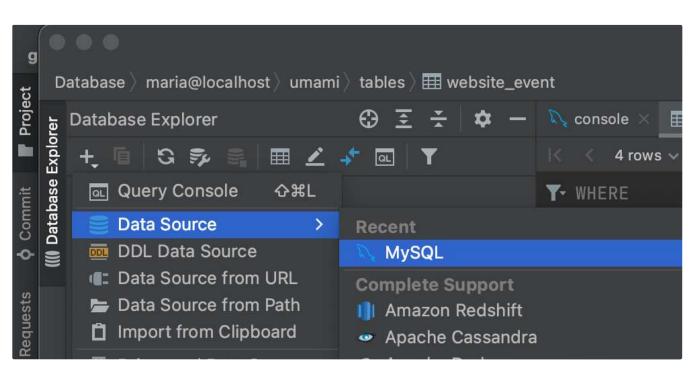
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