

First method (using docker run):

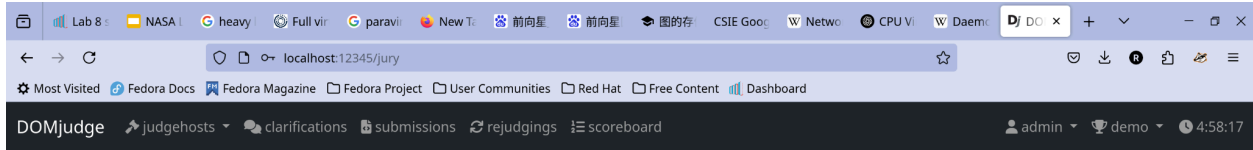
```
b613@fedora:~/Documents/ntucsie_notes/NASA/lab8$ sudo docker run -d --name dj-mariadb --network domjudge-net -e MYSQL_ROOT_PASSWORD=1234 -e MYSQL_USER=richardlairs -e MYSQL_PASSWORD=1234 -e MYSQL_DATABASE=DOMJdatabase -p 13306:3306 mariadb --max-connection-s=1000
Unable to find image 'mariadb:latest' locally
latest: Pulling from library/mariadb
2726e237d1a3: Pull complete
0b86886c6aaa: Pull complete
2b221cf763a8: Pull complete
5e4180757702: Pull complete
43028b9f5f8e: Pull complete
bbe77eafa75b: Pull complete
ab732728101f: Pull complete
0c9f57c1bb30: Pull complete
Digest: sha256:81e893032978c4bf8ad43710b7a979774ed90787fa32d199162148ce28fe3b76
Status: Downloaded newer image for mariadb:latest
17e10da581ab33fad25338f04a60a4cb0f7ac8688ca838c161e42213979e4996
```

```
b613@fedora:~/Documents/ntucsie_notes/NASA/lab8$ sudo docker run -d --name domserver --network domjudge-net -e MYSQL_HOST=dj-mariadb -e MYSQL_USER=richardlairs -e MYSQL_DATABASE=DOMJdatabase -e MYSQL_PASSWORD=1234 -e MYSQL_ROOT_PASSWORD=1234 -p 12345:80 domjudge/domserver:latest
Unable to find image 'domjudge/domserver:latest' locally
latest: Pulling from domjudge/domserver
6e909acdb790: Pull complete
c14e4aa2865f: Pull complete
a0b179a9cb76: Pull complete
4b2d97556bdb: Pull complete
c1b4a30b39ca: Pull complete
1901c2b779cd: Pull complete
881a99572819: Pull complete
f2326099ddf8: Pull complete
0e537bae7cfd: Pull complete
d517a470ad66: Pull complete
Digest: sha256:13075bcd22253b0e83fe604a13a8981ccac54b871e89c33232e0531e44c02bb4
Status: Downloaded newer image for domjudge/domserver:latest
ab38d9ee8d88a32752c791dd203781c6fd7fffb59848f22a4a77f87c2959b0ca5
```

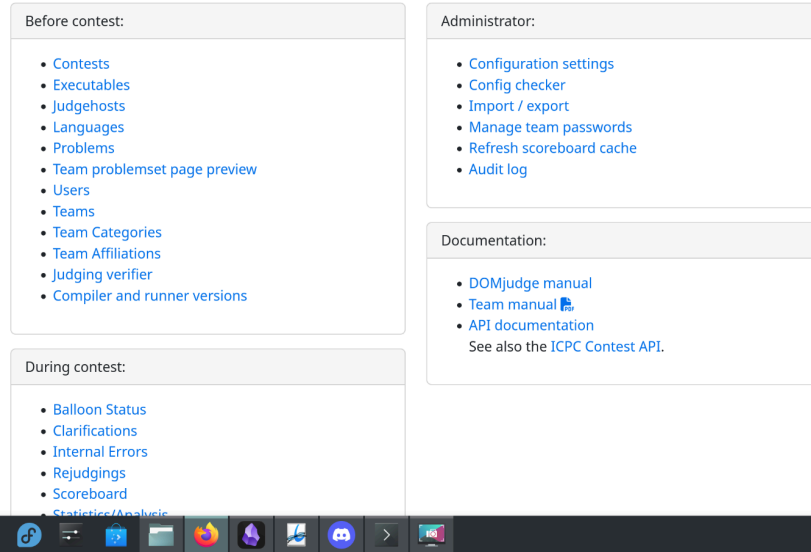
```
b613@fedora:~/Documents/ntucsie_notes/NASA/lab8$ sudo docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
14b2c6451f38	domjudge/domserver:latest	"/scripts/start.sh"	2 minutes ago	Up 2 minutes (healthy)	0.0.0.0:12345->80/tcp
a54019c4ad53	mariadb	"docker-entrypoint.s..."	2 minutes ago	Up 2 minutes	0.0.0.0:13306->3306/tcp
9cb69167ef46	hello-world	"/hello"	3 weeks ago	Exited (0) 3 weeks ago	

```
b613@fedora:~/Documents/ntucsie_notes/NASA/lab8$ sudo docker exec -it domserver bash
root@14b2c6451f38:/# docker exec -it domserver bash
bash: docker: command not found
root@14b2c6451f38:/# cat /opt/domjudge/domserver/etc/initial_admin_password.secret
zpdMZC07gjnVfKa7
root@14b2c6451f38:/# cat /opt/domjudge/domserver/etc/restapi.secret
# Randomly generated on host 14b2c6451f38, Mon Apr 14 05:45:06 CEST 2025
# Format: '<ID> <API url> <user> <password>'
default http://localhost//api judgehost dHeQQhi8iJK1LLVqZzAOCKU7fI+DzZNN
root@14b2c6451f38:/#
```



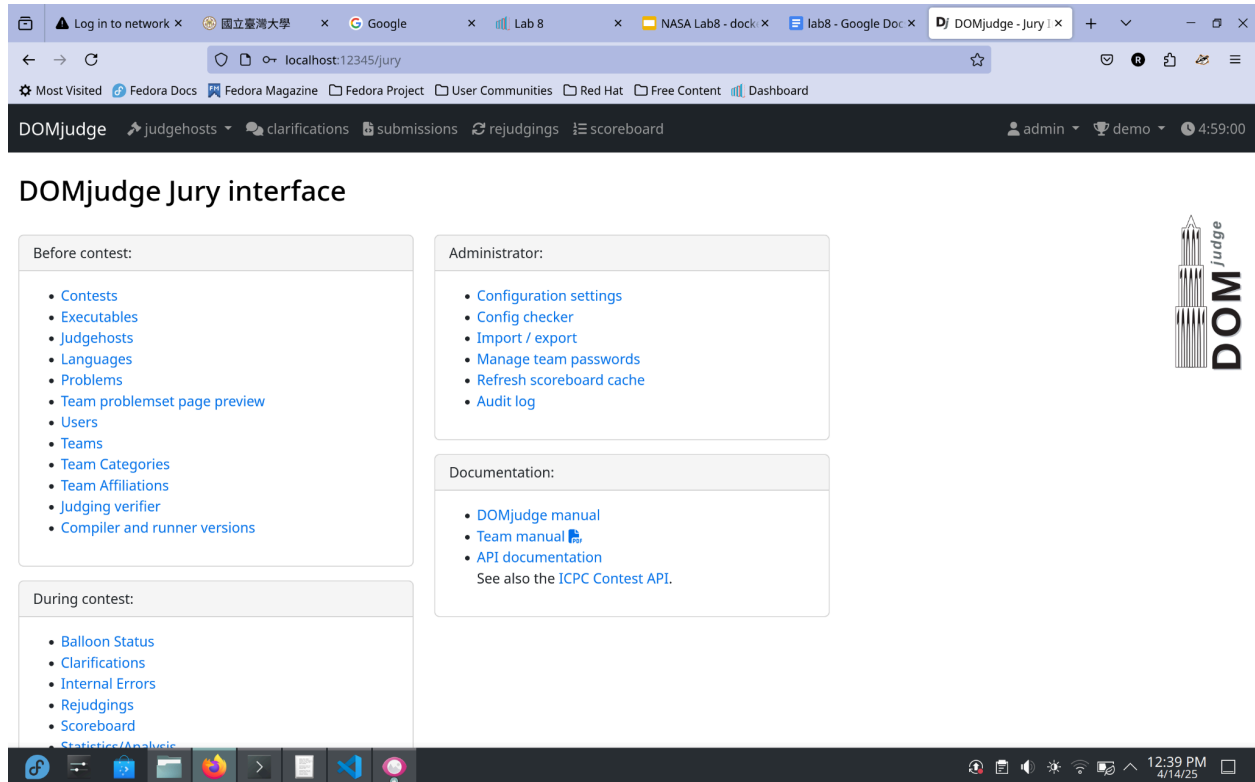
DOMjudge Jury interface



Second method (using docker compose)

```
b613@fedora:~/Documents/ntucsie_notes/NASA/lab8$ vim docker-compose.yml
b613@fedora:~/Documents/ntucsie_notes/NASA/lab8$ sudo docker compose up -d
[+] Running 3/3
 ✓ Network lab8_domjudge-net      Created                                0.2s
 ✓ Container dj-mariadb           Started                             0.7s
 ✓ Container domserver            Started                             0.9s
b613@fedora:~/Documents/ntucsie_notes/NASA/lab8$ sudo docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS
2cdb0550ae0b   domjudge/domserver:latest          "/scripts/start.sh"     14 seconds ago Up 12 seconds (health: starting) 0.0.0.0:
12345->80/tcp, [::]:12345->80/tcp
c201731d6daa   mariadb                            "docker-entrypoint.s..." 14 seconds ago Up 13 seconds                0.0.0.0:
13306->3306/tcp, [::]:13306->3306/tcp
b613@fedora:~/Documents/ntucsie_notes/NASA/lab8$ sudo docker ps -a
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS
2cdb0550ae0b   domjudge/domserver:latest          "/scripts/start.sh"     28 seconds ago Up 27 seconds (health: starting) 0.0.0.0:
12345->80/tcp, [::]:12345->80/tcp
c201731d6daa   mariadb                            "docker-entrypoint.s..." 28 seconds ago Up 28 seconds                0.0.0.0:
13306->3306/tcp, [::]:13306->3306/tcp
9cb69167ef46   hello-world                        "/hello"                 3 weeks ago    Exited (0) 3 weeks ago
```

```
root@2cdb0550ae0b:/# ls
bin  composer-setup.php  etc  lib  media  opt  root  sbin  srv  tmp  var
boot  dev  home  lib64  mnt  proc  run  scripts  sys  usr
root@2cdb0550ae0b:/# cat /opt/domjudge/domserver/etc/initial_admin_password.secret
ADVo0n7zYpCM2ezw
root@2cdb0550ae0b:/# cat /opt/domjudge/domserver/etc/restapi.secret
# Randomly generated on host 2cdb0550ae0b, Mon Apr 14 05:57:56 CEST 2025
# Format: '<ID> <API url> <user> <password>'
default http://localhost//api judgehost YF3QmVsIzAMDvSCLnEPbV0tBXZrA+s+S
root@2cdb0550ae0b:/# cat /opt/domjudge/domserver/etc/restapi.secret
# Randomly generated on host 2cdb0550ae0b, Mon Apr 14 05:57:56 CEST 2025
# Format: '<ID> <API url> <user> <password>'
default http://localhost//api judgehost YF3QmVsIzAMDvSCLnEPbV0tBXZrA+s+S
root@2cdb0550ae0b:/#
```



docker-compose.yml

```
services:
  mariadb:
    image: mariadb
    container_name: dj-mariadb
    environment:
      MYSQL_ROOT_PASSWORD: 1234
      MYSQL_USER: richardlaiis
      MYSQL_PASSWORD: 1234
      MYSQL_DATABASE: domjudge
    ports:
      - "13306:3306"
    networks:
      - domjudge-net
    command: --max-connections=1000

  domserver:
    image: domjudge/domserver:latest
    container_name: domserver
    depends_on:
      - mariadb
```

```
environment:
  MYSQL_HOST: dj-mariadb
  MYSQL_USER: richardlaiis
  MYSQL_DATABASE: domjudge
  MYSQL_PASSWORD: 1234
  MYSQL_ROOT_PASSWORD: 1234
```

```
ports:
  - "12345:80"
```

```
networks:
  - domjudge-net
```

```
networks:
  domjudge-net:
    driver: bridge
```