



Ivannikov ISP RAS

Svace

ANALYSIS RESULTS

Project server
Branch master
Snapshot Snapshot 2024-03-26 19:56:19 +0300

Product version

3.3.2

Report creation date

27 March 2024

Table of contents

1. Deref_After_Null (5)	3
-------------------------	---

1. Deref_After_Null

A pointer is compared to NULL (which indicates that it could have a NULL value), and then it is dereferenced.

Language	Severity	Reliability	Status	Situation
CSHARP	Critical	High	true	Quality
CXX	Critical	High	true	Quality
GO	Critical	High	true	Quality
JAVA	Major	High	true	Quality
KOTLIN	Normal	High	true	Quality

Location: /server/sql/wsrep_utils.h:114	
Function	_ZN3wsp7Address10parse_addrEPKc
Warning message	After having been compared to a NULL value at wsrep_utils.h:103, pointer 'close_bracket' is dereferenced at wsrep_utils.h:114 by calling function 'strchr'.
Комментарий	на 1249 строчке вызывается функция <i>inject_cond_into_where</i> и в нее передается результат вызова метода <i>copy_andor_structure(thd) y inj_cond</i> . В этот момент происходит разыменование указателя.
<pre>109 110 start= open_bracket + 1; 111 end= close_bracket; 112 113 /* check for port */ 114 port= strchr(close_bracket, ':'); 115 if ((port != NULL) && parse_port(port + 1)) 116 { 117 return; /* Error: invalid port */ 118 } 119 m_family= INET6;</pre>	

Location: /server/sql/opt_split.cc:1249		Should fix
Function	_ZN4JOIN26inject_best_splitting_condEy	
Warning message	After having been compared to a NULL value at opt_split.cc:1246, pointer 'inj_cond' is dereferenced at opt_split.cc:1249.	
Комментарий	на 1249 строке вызывается функция <i>inject_cond_into_where</i> и в нее передается результат вызова метода <i>copy_andor_structure(thd)</i> у <i>inj_cond</i> . Потенциально разыменовывается пустой указатель	
<pre>1244 return true; 1245 } 1246 if (inj_cond) 1247 inj_cond->fix_fields(thd,0); 1248 </pre>		
<pre>1249 if (inject_cond_into_where(inj_cond->copy_andor_structure(thd)))</pre>		
<pre>1250 return true; 1251 1252 select_lex->uncacheable = UNCACHEABLE_DEPENDENT_INJECTED; 1253 st_select_lex_unit *unit= select_lex->master_unit(); 1254 unit->uncacheable = UNCACHEABLE_DEPENDENT_INJECTED;</pre>		

Location: /server/sql/item.cc:1575		Undecided
Function	_ZN10Item_field25check_vcol_func_processorEPv	
Warning message	After having been compared to a NULL value at item.cc:1565, pointer 'res' is passed as 2nd parameter in call to function 'mark_unsupported_function' at item.cc:1575, where it is dereferenced at item.cc:1540.	
<pre>1570 r = VCOL_AUTO_INC; 1571 if (field->vcol_info && 1572 field->vcol_info->flags & 1573 (VCOL_NOT_STRICTLY_DETERMINISTIC VCOL_AUTO_INC)) 1574 r = VCOL_NON_DETERMINISTIC; 1575 }</pre>		
<pre>1575 return mark_unsupported_function(field_name.str, arg, r);</pre>		
<pre>1576 } 1577 1578 1579 Query_fragment::Query_fragment(THD *thd, sp_head *sphead, 1580 const char *start, const 1581 char *end)</pre>		

Location: /server/sql/wsrep_mysql.cc:2179		Undecided
Function	Z26wsrep_prepare_keys_for_toiPKcS0_PK10TABLE_L ISTPK10Alter_infoPKSt6vectorIN5wsrep3keyESaIS9_E	
Warning message	After having been compared to a NULL value at wsrep_mysql.cc:2177, pointer 'db' is passed as 1st parameter in call to function 'wsrep_prepare_key_for_toi' at wsrep_mysql.cc:2179, where it is dereferenced at wsrep_mysql.cc:2139.	
2174	const wsrep::key_array *fk_tables)	
2175 {		
2176 wsrep::key_array ret;		
2177 if (db table)		
2178 {		
2179	ret.push_back(wsrep_prepare_key_for_toi(db, table, wsrep::key::exclusive));	
2180 }		
2181 for (const TABLE_LIST* table= table_list; table; table=		
2182 table->next_global)		
2183 {		
2184 ret.push_back(wsrep_prepare_key_for_toi(table->db.str,		
	table->table_name.str,	
	wsrep::key::exclusive));	

Location: /server/sql/sql_select.cc:28246		Undecided
Function	ZL17get_sort_by_tableP8st_orderS0_R4ListI10TABLE_ LISTEy	
Warning message	After having been compared to a NULL value at sql_select.cc:28245, pointer 'table' is dereferenced at sql_select.cc:28246.	
28241	if (!map (map & (RAND_TABLE_BIT	
	OUTER_REF_TABLE_BIT)))	
28242	DEBUG_RETURN(0);	
28243		
28244	map&= ~const_tables;	
28245	while ((table= ti++) && !(map & table->table->map)) ;	
28246	if (map != table->table->map)	

```
28247     DEBUG_RETURN(0); // More than one table
28248     DEBUG_PRINT("exit",("sort by table:
        %d",table->table->tablenr));
28249     DEBUG_RETURN(table->table);
28250 }
28251
```