



## Trovebox 4.0.0-rc6 SQL Injection / Bypss / SSRF

May 02, 2018



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Trovebox versions 4.0.0-rc6 and below suffer from authentication bypass, server-side request forgery, unsafe token generation, and remote SQL injection vulnerabilities.

MD5 | 4f1421667f2b120bcf321218e53f6bbe

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Advisory: Trovebox - Authentication Bypass, SQLi, SSRF  
Release Date: 2018/04/30  
Author: Robin Verton (robin.verteon@telekom.de)  
CVE: requested

Application: Trovebox <= 4.0.0-rc6  
Risk: Critical  
Vendor Status: A fix was released on github.

## Overview:

"Trovebox is software that helps you manage, organize and share photos. It includes web and mobile apps for Android and iOS. The goal of Trovebox is to be software which people love to use and helps them preserve their digital media files." [1]

Multiple vulnerabilities were identified in the current release of Trovebox allowing to bypass authentication, inject SQL code or access local services and hosts.

## Details:

### 1) Authentication bypass via type juggling

Trovebox puts JSON serialized data in a table column and deserializes this data when accessing it. If an accessed dictionary key can not be found in this result, bool(false) is returned. The passwordReset() function makes use of an unsafe comparison which allows to pass this check if there is no active token saved for the user:

```
//ApiUserController.php, L89
$user = new User;
$token = $_POST['token'];
$password = $_POST['password'];
$passwordConfirm = $_POST['password-confirm'];
$tokenFromDb = $user->getAttribute('passwordToken');
if($tokenFromDb != $token)
    return $this->error('Could not validate password reset token.', false);
```

Note that this will always reset the password for the owner/admin account, because the email address is not used here. By using an empty string ("") as the password token, the password can then be changed.

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### 2) Unsafe password reset token generation

The password reset token generation is not random enough:

```
//ApiUserController.php, L59
$token = md5(rand(10000,100000));
```

There are only 90.000 different tokens which is trivial to crack in a short time frame.

### 3) SQL injection in album list function

The buildQuery() function in DatabaseMySQL.php fails to validate the 'album' parameter.

Example: /photos/album-1'[SQL]/list  
Example: /photos/album/list?album=1'[SQL]

### 4) Server-Side request forgery in webhook subscription functionality

The webhook subscribe function does not sufficient filter the passed callback url, thus allowing an authenticated user to access internal services and hosts.

Example contacting a local SSHd:

```
$ curl -XPOST pwnbox:8080/webhook/subscribe \
-d "mode=GET&topic=a&callback=dict://127.0.0.1::22/?" \
--cookie "PHPSESSID=jm6adsphu75m8kna0drkhj9nj4"
The verification call failed to meet requirements. Code: 0, Response: SSH-
2.0-OpenSSH_6.6.1p1 Ubuntu-2ubuntu2.8 Protocol mismatch.
, Expected: 5a7f6cfc81a78, URL: dict://127.0.0.1:22/?mode=GET&topic=a&challenge=5a7f6cfc81a78
```

#### References:

[1]: <https://github.com/photo/frontend>

#### Disclosure Timeline:

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<https://security.telekom.com>

<https://github.com/telekomsecurity>

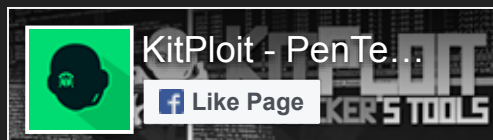
<http://www.sicherheitstacho.eu>

<https://telekomsecurity.github.io/2018/04/trovebox-vulnerabilities.html>

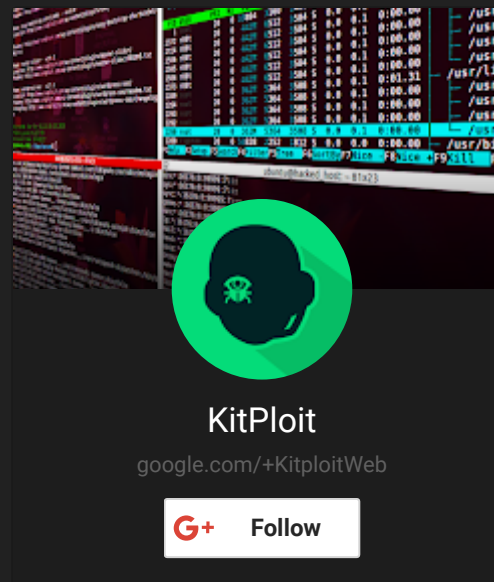
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