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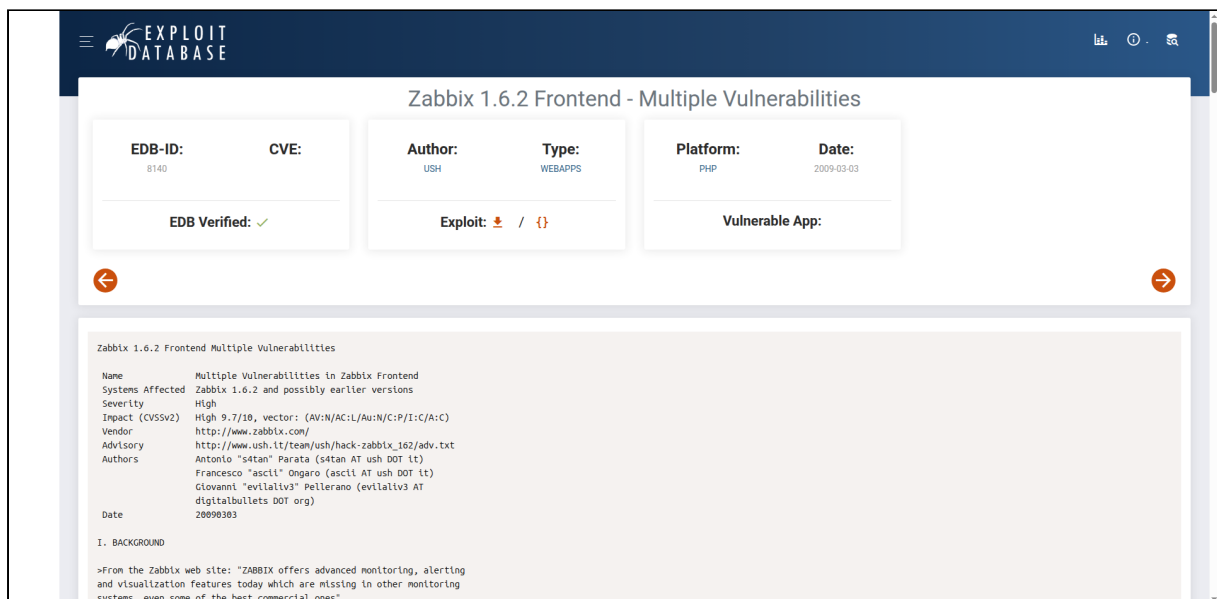
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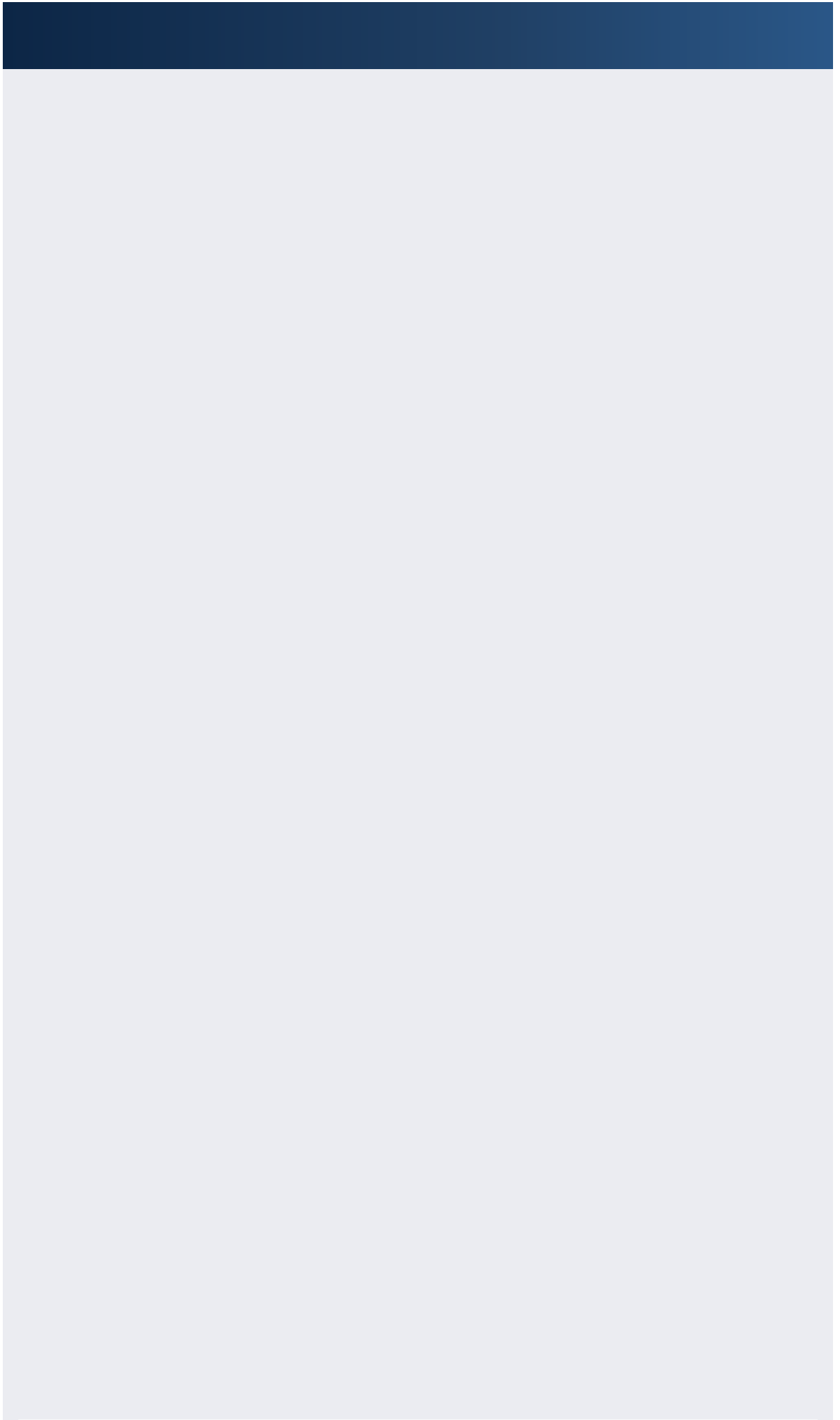
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Page Screenshot





Zabbix 1.6.2 Frontend - Multiple Vulnerabilities

EDB-ID:
8140

CVE:

EDB Verified: ✓

Author:
[USH](#)

Type:
[WEBAPPS](#)

Exploit:  / 

Platform:
[PHP](#)

Date:
2009-03-03

Vulnerable App:



Name	Multiple Vulnerabilities in Zabbix Frontends
Systems Affected	Zabbix 1.6.2 and possibly earlier versions
Severity	High
Impact (CVSSv2)	High 9.7/10, vector: (AV:N/AC:L/Au:N/C:P/I:C/A:C)
Vendor	http://www.zabbix.com/
Advisory	http://www.ussh.it/team/ush/hack-zabbix_162/adv.txt
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Date	20090303

>From the Zabbix web site: "ZABBIX offers advanced monitoring, alerting and visualization features today which are missing in other monitoring systems, even some of the best commercial ones".

Multiple Vulnerabilities exist in Zabbix front end software.

Summary:

A) Remote Code Execution
B) Cross Site Request Forgery
C) Local File Inclusion

A Remote Code Execution issue has been found in Zabbix version 1.6.2 and no authentication is required in order to exploit this vulnerability. The Magic Quotes must be off in order to exploit this vulnerability, however this feature will not be supported starting with PHP 6.0 (ref. http://it2.php.net/magic_quotes).

Pages define an array of every used variable that derives from external (GPC) input. An example of the mechanism is the following:

[illegible]

```
check_fields($fields);
```

[illegible]

The main step of the `check_fields()` function is:

[illegible]

```
foreach($fields as $field => $checks){
    $err |= check_field($fields, $field, $checks);
}
```

[illegible]

Following the `check_field()` function we have identified that the function's main steps are the creation of some local variables using `list()` and a consequent call of `calc_exp()` (which resides in the same file).

[illegible]

```
list($type, $opt, $flags, $validation, $exception) = $checks;
[...]
```

[illegible]

calc_exp()'s code is:

[illegible]

```
function calc_exp($fields,$field,$expression){
    if(zbx_strstr($expression,"{}") && !isset($_REQUEST[$field]))
        return FALSE;

    if(zbx_strstr($expression,"{}") && is_array($_REQUEST[$field]))
        $expression = str_replace("{}","$_REQUEST['".$field."']", $expression);

    if(zbx_strstr($expression,"{}") && is_array($_REQUEST[$field])){
        foreach($_REQUEST[$field] as $key => $val){
            $expression2 =
            str_replace("{}","$_REQUEST['".$field."']['".$key."']", $expression);
            if(calc_exp2($fields,$field,$expression2)!=FALSE)
                return FALSE;
        }
        return TRUE;
    }
    return calc_exp2($fields,$field,$expression);
}
```

[illegible]

As you can see we should be able to call `calc_exp2()` our vulnerable

Antonio "s4tan" Parata, Francesco "ascii" Ongaro and Giovanni "evilaliv3" Pellerano are credited with the discovery of this vulnerability.

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