

## pfSense - Bug #6318

### IPsec dashboard widget causes GUI failure

05/05/2016 04:55 AM - Rick Strangman

<b>Status:</b>	Resolved	<b>Start date:</b>	05/05/2016
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Steve Beaver	<b>% Done:</b>	100%
<b>Category:</b>	Web Interface	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2.4.3	<b>Affected Version:</b>	2.3.x
<b>Plus Target Version:</b>		<b>Affected</b>	All
<b>Release Notes:</b>	Default	<b>Architecture:</b>	

#### Description

Since 2.3\_1 the webconfigurator is continually being non responsive. Attempting to access my https website on port 444 the page hangs and eventually responds with 504 Gateway Time-out - nginx on both IE & Firefox. The nginx-error log file shows the following:

```
2016/05/05 18:27:54 [error] 30498#0: *254302 upstream timed out (60: Operation timed out) while reading response header from upstream, client: 192.168.xxx.10, server: , request: "GET / HTTP/1.1", upstream: "fastcgi://unix:/var/run/php-fpm.socket", host: "pf.xxxxx.biz:444"
```

```
2016/05/05 19:17:32 [alert] 30180#0: close() socket failed (9: Bad file descriptor)
```

```
2016/05/05 19:20:44 [error] 87811#0: *12 upstream timed out (60: Operation timed out) while reading response header from upstream, client: 192.168.xxx.10, server: , request: "GET / HTTP/1.1", upstream: "fastcgi://unix:/var/run/php-fpm.socket", host: "pf.xxxxx.biz:444"
```

```
2016/05/05 19:27:58 [error] 87811#0: *447 upstream timed out (60: Operation timed out) while reading response header from upstream, client: 192.168.xxx.10, server: , request: "GET / HTTP/1.1", upstream: "fastcgi://unix:/var/run/php-fpm.socket", host: "pf.xxxxx.biz:444"
```

Restarting the webconfigurator from the console does not resolve the issue.  
Other than the web not functioning, the firewall is performing as normal.

#### Associated revisions

##### Revision fa01d062 - 05/24/2016 06:12 PM - Chris Buechler

Set request\_terminate\_timeout to the same as max\_execution\_time in case something executed externally doesn't respond, to avoid hanging up all of php-fpm eventually. Ticket #6318 among other similar potential issues.

##### Revision 42d2f11a - 05/24/2016 06:17 PM - Chris Buechler

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##### Revision 062a5434 - 05/24/2016 06:17 PM - Chris Buechler

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##### Revision 58f31015 - 10/17/2017 01:37 PM - Stephen Jones

Related to redmine #6318 helps fix some times when it would get back null data after a session ended

#### History

##### #1 - 05/16/2016 04:47 AM - Chris Buechler

- Status changed from New to Feedback

- Affected Version deleted (2.3.1)

that's 2.3(,0)\_1 rather than 2.3.1. It wasn't 2.3->2.3\_1 that did it, since that only upgraded ntpd, rather something that would have happened on 2.3 as well. I'm guessing it's one of two things. Either something related to [#6177](#), or there seems to be some kind of issue with the IPsec dashboard widget causing that to happen for a few people.

If this is replicable for you, if you have the IPsec dashboard widget enabled, please try to remove that and see if that fixes the problem. That'll at least tell us where the issue resides.

## **#2 - 05/17/2016 11:26 AM - Brent Kerlin**

Chris Buechler wrote:

that's 2.3(,0)\_1 rather than 2.3.1. It wasn't 2.3->2.3\_1 that did it, since that only upgraded ntpd, rather something that would have happened on 2.3 as well. I'm guessing it's one of two things. Either something related to [#6177](#), or there seems to be some kind of issue with the IPsec dashboard widget causing that to happen for a few people.

If this is replicable for you, if you have the IPsec dashboard widget enabled, please try to remove that and see if that fixes the problem. That'll at least tell us where the issue resides.

I have seen this issue frequently on clients since 2.3 rolled. I was more concerned with [#6296](#) which was causing me many headaches, but I will try removing the IPsec widget on a few sites and report back (I have one with the webgui locked up right now who is a prime candidate). Any log dumps that would be helpful?

## **#3 - 05/17/2016 11:29 AM - Brent Kerlin**

Restarting the webconfigurator from the console does not resolve the issue.  
Other than the web not functioning, the firewall is performing as normal.

Try restarting PHP-FPM from the console. That seems to clear up the issue for me...

## **#4 - 05/20/2016 09:56 AM - Brent Kerlin**

Brent Kerlin wrote:

I have seen this issue frequently on clients since 2.3 rolled. I was more concerned with [#6296](#) which was causing me many headaches, but I will try removing the IPsec widget on a few sites and report back (I have one with the webgui locked up right now who is a prime candidate). Any log dumps that would be helpful?

I have removed the IPSec Widget from all the sites at which I was having this PHP-FPM issue. I'll report back in a couple days or if the problem persists.

**#5 - 05/22/2016 05:29 PM - Rick Strangman**

I have no issues since removing the IPsec widget. Now on 2.3.1 and have not seen a lockup

**#6 - 05/24/2016 12:48 PM - Chris Buechler**

- Subject changed from *pfSense webconfigurator* to *IPsec dashboard widget causes GUI failure*
- Status changed from *Feedback* to *Confirmed*
- Target version set to *2.3.2*
- Affected Version set to *2.3.x*
- Affected Architecture added
- Affected Architecture deleted (*amd64*)

**#7 - 05/24/2016 01:05 PM - Steve Beaver**

I have looked through the code again and nothing really stands out.

It would be helpful to know:

- How many tunnels do people have in cases where the issue is seen?
- Does it make any difference if the widget is set to show Overview, Tunnels, or Mobile?

THanks!

**#8 - 05/24/2016 01:11 PM - Chris Buechler**

Steve Beaver wrote:

I have looked through the code again and nothing really stands out.

Ditto. Heard of roughly a handful of reports of this, but never seen it myself. Additional details would be appreciated.

**#9 - 05/24/2016 10:09 PM - Chris Buechler**

Thanks to Alex for getting me into an affected system. It's occasionally getting stuck in `pfSense_ipsec_list_sa`, without triggering any of the printfs there.

```
PHP_FUNCTION(pfSense_ipsec_list_sa) {  
  
    vici_conn_t *conn;  
    vici_req_t *req;  
    vici_res_t *res;  
  
    array_init(return_value);  
  
    vici_init();  
    conn = vici_connect(NULL);  
    if (conn) {  
        if (vici_register(conn, "list-sa", build_ipsec_sa_array, (void *) return_value) != 0) {
```

```

                php_printf("VICI registration failed: %s\n", strerror(errno));
            } else {
                req = vici_begin("list-sas");
                res = vici_submit(req, conn);
                if (res) {
                    vici_free_res(res);
                }
            }
            vici_disconnect(conn);
        } else {
            php_printf("VICI connection failed: %s\n", strerror(errno));
        }
    }

    vici_deinit();
}

```

What I committed on this ticket should prevent this (and many other possible failure scenarios with commands that don't return) from killing the GUI. `request_terminate_timeout` will kill them off after 900 seconds. It only happens once every few minutes when continually refreshing a page that uses that function, so that's been enough to keep Alex's system from killing the GUI again.

#### #10 - 07/08/2016 02:15 AM - Chris Buechler

- Target version changed from 2.3.2 to 2.4.0

#### #11 - 12/22/2016 02:47 PM - Jim Pingle

- File `php-stuck-truss-04.txt` added

This also affects `Status > IPsec`

We have access to a customer system that has 70 tunnels defined, and it happens every 5-20 minutes (timing varies) while a browser is left on `Status > IPsec`. The requests are not piling up, they only take about 300ms to complete. Leaving a browser open on `Status > IPsec` with firebug or similar running, it's easy to spot when it stops responding.

When it happens, there are always two PHP child processes:

```

: ps uxawww | grep '[p]hp'
root  64113  0.5  0.9 272496 38300  -  S    1:43PM    0:02.26 php-fpm: pool nginx (php-fpm)
root    267  0.0  0.6 268400 25140  -  Ss   3:01AM    0:02.49 php-fpm: master process (/usr/local/lib/php-f
pm.conf) (php-fpm)
root  64043  0.0  0.9 285304 38604  -  I    1:43PM    0:00.19 php-fpm: pool nginx (php-fpm)

```

Attempting to run a truss on the top process (In state "S", sleeping) shows no output at all

Running truss on the other process (In state "I", idle) outputs info and then the browser gets a response. So long as the truss happens before the browser times out, everything keeps running. The truss output is attached. I have several more copies of truss output from other times I reproduced the issue, but they are all very close if not identical. I find it odd that merely attaching to the process with truss is somehow waking it up and causing it to proceed. I've tried hitting the process with other signals like kill -HUP but so far nothing brings it back to life but touching it with truss, or killing/restarting PHP-FPM.

There isn't much that happens in the AJAX request being made for Status > IPsec or the IPsec widget, it could be getting stuck in vici interaction.

**#12 - 01/01/2017 05:56 PM - Jim Thompson**

- Assignee set to Steve Beaver

**#13 - 02/22/2017 01:05 PM - Nick Wenos**

We are also having what appears to be the same issue running on version 2.3.2 As a side affect of php-fpm going down our OpenVPN clients also lose the ability to connect until we restart php-fpm and openvpn. I don't know if this would affect all OpenVPN or just those using ssl cert authentication as is the case with our setup.

**#14 - 02/23/2017 08:25 AM - Eric Machabert**

Nick Wenos wrote:

We are also having what appears to be the same issue running on version 2.3.2 As a side affect of php-fpm going down our OpenVPN clients also lose the ability to connect until we restart php-fpm and openvpn. I don't know if this would affect all OpenVPN or just those using ssl cert authentication as is the case with our setup.

We are also seeing this on 2.3.3

Running netstat -an shows request filling up the Recv-Q for IPC connection to /var/run/php-fpm.socket.

**#15 - 04/10/2017 09:17 AM - Chris Baker**

I am also seeing this on 2.3.3. Is there any known work around other than removing the ipsec widget? Maybe changing the polling frequency?

**#16 - 07/13/2017 11:50 AM - Marcio Merlone**

I think this bug's priority should be raised since it also breaks openvpn functionality.

**#17 - 07/26/2017 09:56 AM - Steve Beaver**

- Target version changed from 2.4.0 to 2.4.1

**#18 - 08/09/2017 11:08 AM - Steve Beaver**

- Status changed from Confirmed to Feedback

- Target version changed from 2.4.1 to 2.4.0

I have done a LOT of research into this. I believe that since most dashboard widgets have their own timer, their own buffer and their own AJAX calling functions, they are from time to time stepping on each other and causing havoc on the server side.

As an experiment (for now) I have removed all of the individual refresh stuff from the widgets and replaced them with a single, central refresh service that loops through the dashboard updating each widget one at a time.

So far, the results appear to be dramatically better. I can't guarantee that this will solve the IPSec widget issue, but I think it might. I note that the time taken to refresh the IPSec widget has reduced from 5 seconds to about 10 ms so that has got to help.

The changes will be in 2.4-BETA later today.

**#19 - 08/09/2017 11:12 AM - → luckman212**

Sounds like a fantastic change. Thanks Steve

**#20 - 09/15/2017 02:38 PM - Jim Pingle**

- Status changed from *Feedback* to *New*
- Target version changed from 2.4.0 to 2.4.1

I still see this but it seems less common than it did in the past. Either have bad timing or sit on the dashboard too long with the IPsec widget and it still wedges.

Kicking it forward since it isn't critical.

**#21 - 10/19/2017 03:07 PM - Jim Pingle**

- Target version changed from 2.4.1 to 2.4.2

There have been some IPsec widget fixes here which may be relevant, since it is so difficult to reproduce, it is difficult to know that it has been fully resolved. Moving forward.

**#22 - 10/23/2017 12:19 PM - Jim Pingle**

- Target version changed from 2.4.2 to 2.4.3

**#23 - 01/16/2018 02:05 PM - Jim Pingle**

- Status changed from *New* to *Resolved*
- % Done changed from 0 to 100
- Affected Architecture All added
- Affected Architecture deleted ()

This appears to be fixed by other changes to the IPsec status code in recent versions. No new reports of this being caused by IPsec in some time.

**Files**

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php-stuck-truss-04.txt	44.7 KB	12/22/2016	Jim Pingle
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