

pfSense Packages - Bug #3442

Stunnel package \$config issue?

02/10/2014 08:10 PM - Stilez y

Status:	Closed	Start date:	02/10/2014
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		Affected Plus Version:	
Plus Target Version:		Affected Architecture:	
Affected Version:			
Description			
<p>Pfsense 2.1.1beta, installed Stunnel, but any attempt to add either a first tunnel or a first cert consistently causes a fatal PHP error in stunnel.inc. The fatal error is generated because stunnel.inc executes soon after entry these lines:</p> <pre>if(isset(\$_GET['id'])) { \$config['installedpackages']['stunnelcerts']['config'][\$_GET['id']]['cert_chain']= base64_decode(\$config['installedpackages']['stunnelcerts']['config'][\$_GET['id']]['cert_chai n']); \$config['installedpackages']['stunnelcerts']['config'][\$_GET['id']]['cert_key']= base64_decode(\$config['installedpackages']['stunnelcerts']['config'][\$_GET['id']]['cert_key']); }</pre> <p>The "+" ("add new entry") buttons in both tabs link to URL like this: https://ROUTER_IP/pkg_edit.php?xml=stunnel_certs.xml&id=0 , so id is set on call, and its value is zero.</p> <p>The cause seems to be one or both of:</p> <ol style="list-style-type: none">1. \$config['installedpackages']['stunnelcerts'] doesn't seem to exist as an array at this point, but presumably it should exist by this point. (If by design the \$config referred to isn't created on install, then the code is wrongly assuming it has been). print_r(\$config['installedpackages']['stunnelcerts']) gives an empty response. As a result, base64_decode() is being passed an unset element in a non-existent subarray, and this creates the visible error. Presumably something should have initialised the array (when stunnel installed?) or else stunnel.inc itself should test existence and initialise the expected \$config items upon being called, if unset, but neither of these happens2. The significance of being called with id=0 is unclear. This could be internal shorthand for a generic "create new entry", or mean "create a new entry with index=0" (because the first item has index=0). But in either case, the above code seems to expect that \$_GET['id'] should point to a valid <i>existing</i> tunnel/cert entry with index = 0, already in \$config when stunnel.inc is called. As described no such entry is created when the package installs, nor prior to the above code executing. However, subsequent code in stunnel.inc <i>does</i> seem to test for "no tunnels/certs defined", however, so stunnel.inc's logical flow here isn't clear to me. Perhaps I don't understand it very well. <p>This issue or one very similar was described in the forum some time ago, but the user was dismissed with "stunnel has worked for ages and nothing's changed" (https://forum.pfsense.org/index.php?topic=62052 May 2013). It looks like there is some kind of bug, as expected \$config is relied on, but wasn't created at pkg install, nor created at pkg use/setup, nor is the subarray's unset status in \$config[] trapped in the package code before it's relied upon. Can it be checked? Thanks.</p>			

History

#1 - 02/10/2014 08:16 PM - Stilez y

If stunnel is technically designed as two sub=packages (stunnel and stunnel_certs) then the issue may be that on install or reinstall, only stunnel.xml is dealt with, and stunnel_certs.xml isn't. But I don't know the package system, so I'm guessing and could be completely wrong. It seems possible, two XML files exist but if initialisation within the cert's xml isn't being handled then this might explain why config related to certs doesn't exist when expected. (That said, most packages test their \$config exists and creates it "empty" if not, before relying on it)

#2 - 08/29/2015 05:55 PM - Kill Bill

When exactly are you getting a fatal error? I'm not getting any on clicking the + neither in tunnels, nor in certificates tab.

#3 - 11/01/2015 04:41 AM - Kill Bill

This bug simply doesn't exist anywhere on any sane pfSense version. End of story.

#4 - 11/02/2015 11:26 AM - Chris Buechler

- *Status changed from New to Closed*

Stilez: if there is some way to replicate this on 2.3, please follow up with details

#5 - 11/15/2015 09:03 AM - Stilez y

Can't test - stunnel not yet showing as a pfSense package available on 2.3 .