

pfSense - Todo #6501

Tightening up subnet expansion

06/19/2016 03:00 PM - Stilez y

Status:	New	Start date:	06/19/2016
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
<p>A couple of days ago I put a PRE into Github to remove the <code>subnet_expand()</code> function. It isn't used anywhere in the codebase, isn't robust, and would need a complete rewrite to handle IPv6 anyway.</p> <p>But then I noticed a few places exist where subnet expansion <i>does</i> happen - just not using this function. Typically this is related to subnet VIPs and in particular Radius or ARP Proxy config, where the user gets a drop-down list of interfaces which include VIPs generated from a subnet:</p> <ul style="list-style-type: none">• <code>services_captiveportal.php</code> - <code>build_radiusnas_list()</code>• <code>pkg_edit.php</code> - generic proxy-ARP GUI element• <code>firewall_nat_edit/nat_out_edit/nat_1to1_edit.php</code> - same code, proxy arp interface list <p>I'm not sure what would need fixing in these, but some things do, and I'm happy to fix them if I know what's wanted. So this is a todo that I'm happy to do myself if someone can answer a couple of Q's:</p> <ol style="list-style-type: none">1. What is a "reasonably largest" number of values that should be autogenerated in order that a <code><select></code> element remains tolerably long (and not too hard to generate/render, especially on nano-platforms)?2. As a user could have quite a large VIP subnet, what should the GUI do to make it easy for the user, if the number of interfaces+VIPs to be offered in a GUI form is more than this?3. Alternatively, any thoughts on a better way to offer a list of IPs/IFs/VIPs than a dropdown list, which saves the system having to manually create an arbitrary length dropdown list when it is very long?			

History

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4. Is IPv6 catered for by its own functionality, if not does this need an IPv6 equivalent and what would that look like? (none of the above examples handle IPv6 and I can't be sure if they need to or if it's an IPv4-only matter)