

strongSwan - Issue #3425

Encryption happens in only one direction for bi-directional traffic.

24.04.2020 15:04 - Nagendra E S

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	configuration	
Affected version:	5.7.2	Resolution: No feedback
Description		
Topology: Servers run Ubuntu 18.04 and Linux 4.15.0-29-generic		
Two servers connected over network hosting VMs on each server. Host(hypervisor) OS is having custom datapath. This datapath sends packets that have to be encrypted to a "crypt0" interface which interfaces with linux kernel IP stack. There is another interface "decrypt0" interface which is used to receive packets decrypted by kernel back to the custom datapath.		
Problem Description: ping is originating on VM1 on Server-1 (10.204.216.39). The ping packets are encapsulated over VxLan (UDP) by custom datapath with src-ip 10.204.216.39 and dst-ip 10.204.216.46, and sent to crypt0 interface. The kernel encrypts and sends to other server Server-2 (10.204.216.46) using the linux ip stack forwarding tables. On Server-2, decryption happens and packets are sent to VM2 on Server-2 after removing VxLan header in custom datapath.		
Now, the ping replies from VM2 on Server-2 are going to the linux kernel stack via the custom datapath and crypt0 interface. However, the packets are not getting encrypted and forwarded as plain-text on to the network physical interface.		
To summarise, packets originating from Server-1 are getting encrypted but packets originating from Server-2 are not getting encrypted and going as plain-text.		
Decryption happens properly on Server-2 (for packets received from Server-1).		
Now, if ping is done from VM2, still the encryption doesn't happen on Server-2 but the ping response from Server-1 is encrypted.		

History

#1 - 25.09.2020 11:42 - Tobias Brunner

- Category set to configuration
- Status changed from New to Closed
- Resolution set to No feedback

Files

server_1.tar	30 KB	24.04.2020	Nagendra E S
server_2.tar	30 KB	24.04.2020	Nagendra E S