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r/PFSENSE • 2 yr. ago

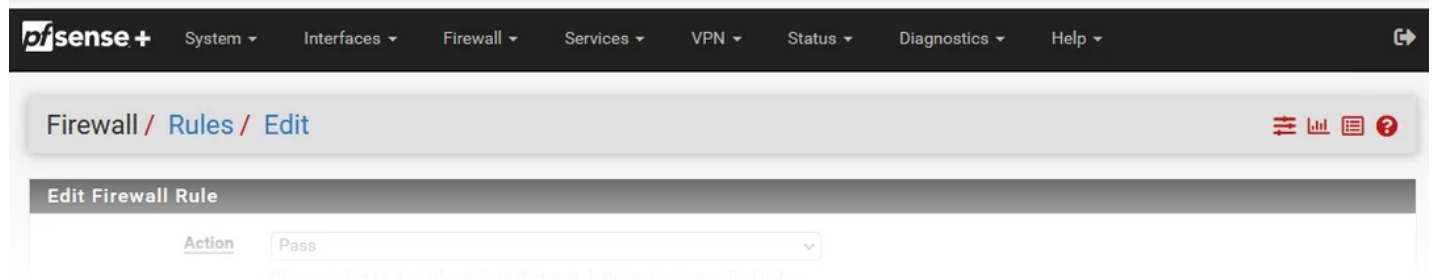
scotrod



VLANs - How to allow access to a SINGLE IP from another LAN network?

Hey! First timer with VLANs here. I am testing my first VLAN created network called test49, which I plan to use for IoT devices.

I want these devices to reach the Internet, without having access to my LAN network. I've created a simple rule for this matter:

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12



33



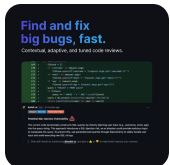
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Kriton20 • 2y ago

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The first thing that comes to mind is - is you private network allowed to talk back?

If you're on your non-IoT network and trace/ping to it - what happens? Both to the trace and hits on the logged firewall rules. It should travel to the firewall and then....

5 [Reply](#) ...



scotrod OP • 2y ago

There are no rules on the other non-IoT network that allow any kind of traffic to the VLAN. My understanding is that if I have a rule that allows traffic from the VLAN to the other private network, traffic should be allowed and the rules for the return of the traffic should be handled by pfsense in the background.

Meaning I can ping the device inside the non-IoT network but the device in the non-IoT network cannot initiate a connection to the VLAN device.

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phamd4 • 4mo ago

May I ask if you happened to set this up? I think I'm in similar situation for example I want my printer to sit in my IoT vlan but want my pc on my main lan still able to communicate. Thanks for your time

1 [Reply](#) ...



scotrod OP • 4mo ago

Eventually I moved HA to the IoT VLAN which was more suiting for my needs.

Now for your case, have you tried to create a rule that allows your PC to access just the IP of the printer? Ofc the printer needs to have a static IP for this to work. I believe PC calling the printer (one way FW rule) should be enough.

1 [Reply](#) ...

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Zapador • 2y ago

As a test I would try to disable all (if any) block/reject rules and create a single pass Any to Any for the interface where the traffic originates. Does that work?

1 [Reply](#) ...



scotrod OP • 2y ago

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LAN net to test49 NET. So both the VLAN and the LAN network have PASS rules and there are no block rules. Still doesn't work. Both networks are /24 - I do not know shit about subnets but FW rules should be Kings here, right?

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⊕ 7 more replies



redstej • 2y ago

The syntax is wrong on the 2nd rule (you're allowing the entire [192.168.50.0/24](#) range), but that's not the problem.

Do you have a pfsense interface on the [192.168.2.0/24](#) network? Go to diagnostics, ping and see if you can ping your HA host from the desired network.

In order for pfsense to route between different networks, it needs to have an interface with an address on each one.

⊖ ↑ 1 ↓ ○ Reply ...



scotrod OP • 2y ago

The [192.168.2.1](#) network is my main and only functional one. This is the network which holds all of my devices. The other network I have is test49 VLAN, which is [192.168.50.1](#)

So that's all I have and [192.168.2.1](#) network should have everything needed to run, as I'm currently working from it.

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⊕ 3 more replies



Scarface88UK • 2y ago

I've very recently gone for the same setup, my IoT devices are in a VLAN, but I've kept my Home Assistant RPi4 in my main LAN. My LAN is allowed to talk to the IoT VLAN, but not the other way round. IoT VLAN is allowed to talk to non-private IPs i.e the internet only. It's working fine for me, if you know an easy way of me sharing quite a few screenshots then I'm happy to share my configuration.

⊖ ↑ 1 ↓ ○ Reply ...



scotrod OP • 2y ago

Hey and thanks for tuning in! Yeah, I'm in the process of building up similar environment, with the only difference that the Internet of Shit devices must reach out to the HA instance (which is inside the protected LAN network).

My problem was that I was testing all of this in ESXi VMs, which shared a virtual port which was not passing through the VLAN packets. I managed to find a solution within ESXi... so it wasn't pfSense fault.

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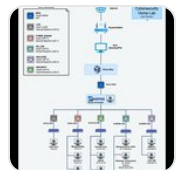
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