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r/PFSENSE • 2 yr. ago

jeremy44



## Give VLAN internet access

Hi,

So I'm new to VLAN's and was just trying to get one to work. I have an Aruba s2500 as my main switch. My network is in the [192.168.2.0/24](#) range, but the VLAN that I set on the switch is a [192.168.5.0/24](#) network. When setting an IP in the 5.0 range on my pc, I can access the switch itself, but I don't have any internet access. So I'm guessing I have to set up some rules, though I'm not sure what rules I need to set, and I can't find any definitive answer online that seemed to work.

Thanks in advance for any help.

Edit: Thank you for everyone's help.

I ended up needing to create a vlan in pfSense and assign it to a interface, creating rules for it and enabling the dhcp server for it.

From [u/boli99](#)

in pfSense -> interfaces -> vlans

add a vlan on the appropriate interface using the appropriate ID

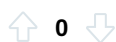
then enable the interface and give it a suitable IP

then enable DHCP server for that interface

then enable DNS server for that interface

then add firewall rules on that interface allowing at least 53 to your dns server, and 80,443 to anywhere

Thanks again for the help. I thought I previously tried to do that but eh guess I made something wrong the first time yesterday



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15

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**UnkleMike** • 2y ago

You only mention setting up a VLAN in your switch. Have you setup a VLAN in pfSense? If so, is the VLAN ID the same as the one on your switch, and do you have rules on that interface that would allow Internet access? Have you configured the switch port connected to pfSense as a trunk port?

3

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**jeremy44** OP • 2y ago

I have configured the port as a trunk port but I havnt done any vlan configurations on pfsense. I havnt set any rules yet since im not sure which one to set

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**Human-Byte** • 2y ago

This may be of assistance. Full rundown on setting up pfSense with rules etc.

[https://www.youtube.com/watch?v=fsdm5uc\\_LsU](https://www.youtube.com/watch?v=fsdm5uc_LsU)

2

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[deleted] • 2y ago

**bruor** 🍰 • 2y ago

VLANs are a way to break up a switch into multiple Level 2 network domains. You attach a VLAN trunk port to pfSense and create VLAN interfaces, which would give pfSense a direct connection to each VLAN you created without a need for the switch to actually have an IP within the VLAN or do any routing.

OR, you can create the VLANs on your switch and route traffic from the IP network in the new VLAN at the switch level to pfSense. I would recommend using a transit network/VLAN in-between pfSense and the Switch if this is the case, but it isn't necessary.

It sounds like you're doing the latter, if that is the case you need to have a static route for the VLAN subnet via LAN to the Switch's IP in the LAN subnet. Then you need to change your outbound NAT mode to Hybrid, and add an outbound NAT rule so that the VLAN network can be translated out the WAN interface. You'll also need to allow traffic on your pfSense LAN interface so that the VLAN network is allowed to reach the internet through it. The easiest way would be to change the source filter for "LAN net" to read any, but you could also copy the rule and specify your VLAN CIDR as the source instead.

1

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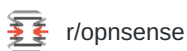
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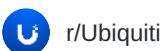
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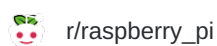
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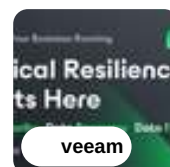
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