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r/HomeNetworking



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r/HomeNetworking • 3 yr. ago

benni33



Layer 2 or 3 switch?

Tldr: figured out that I need to get a router, not a switch.

Hello everyone, even though I am an IT expert for servers, my knowledge is verly little when it comes to Network. So i ended up in this subreddit when I was asked to isolate 4 device into a vlan at my home. When I understood my sources correctly, I need a layer 3 switch to route and aggregate the traffic, can you confirm that? Do you have some suggestions?

But first some more informations about my network: Internet is provided by an FritzBox 6591 Cabel. Than 2 switches supply approx 24 wall sockets and two Ubiquity in Wall Access Points. Now I need to put some IoT-devices into the garage which is accessible from outside. I will lay a new cable.

I want to limit internet access of those IoT-devices to specified web services, I want no access of that devices to my normal home devices and (optional) in some cases I want to access the devices in the garage (port 8080 or 80

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2



18



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laurentm • 3y ago

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by the switch itself instead of needing to go all the way up to the router. That's very useful in enterprise networks, a lot less so in smaller networks.

With an L2 switch, you need a router that understands VLANs. With an L3 switch, you need a router that understands multiple subnets (i.e. has more advanced routing tables than basic consumer routers).

Most Unifi switches like the Lite 8 PoE are L2-only. Some like the "Pro" ones are L3, although the L3 functionality has been late to come (they shipped the hardware years before the firmware) and I am not sure where they really are currently.

⊖ ↑ 4 ↓ ...



benni33 OP • 3y ago

As my Router has no real firewall appliance and no way to handle VLANs except for static routes, I guess I need a real router that allows me to manage all this. (or get a firewall appliance as recommended here on other posts). What do you think about the ui edge router x ? It has 4 ports (4 vlans, extensible with layer 2 switches) and I hope it could handle all my requirements (?).

↑ 1 ↓ ...

⊕ 5 more replies



jpep0469 • 3y ago

The normal use case for what you're trying to do is a simple layer 2 managed switch used in conjunction with a router/firewall that can create VLANs and manage the firewall rules controlling what is allowed to go where. I use a basic 8-port managed D-Link switch along with OPNsense running on a mini PC to manage 3 VLANs (LAN, IOT, & guest).

⊖ ↑ 2 ↓ ...



benni33 OP • 3y ago

That doesn't sound bad but I need to buy that mini PC too. When I got you right your mini PC has several LAN Ports (for each VLAN) and does routing, VLAN, and firewall?

↑ 1 ↓ ...

⊕ 1 more reply



goj-145 • 3y ago

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doesn't. And if something tries to do something it shouldn't, I both want to know it happened, it was logged, and it was prevented which comes from my router logs.

I'm a huge managed L2 switch guy, and if that makes me stupid and in the minority, cool. More switches for me at a discount that nobody else wants.

↑ -1 ↓ ...

⊕ 8 more replies

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Refining Home Network, Advice needed on switch

17 upvotes · 33 comments

r/HomeNetworking • 6 days ago

Was planning on hiring someone to run ethernet through my walls. Was asked to send a photo of the network panel and the inside of a wall plate. Found string on both ends... cou...

698 upvotes · 226 comments



r/HomeNetworking • 14 days ago

Last update: I'm not getting gigabit but my husband is

316 upvotes · 21 comments

r/HomeNetworking • 28 days ago

Ethernet Stress Test (Cable Torture)

587 upvotes · 76 comments



r/ccna • 3 yr. ago

TRANSIT VLAN

20 upvotes · 19 comments

r/HomeNetworking • 6 days ago

Gigabit Over Thermostat Wiring lol

1.2K upvotes · 113 comments



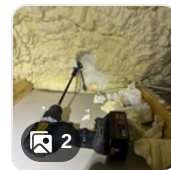
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DIY Ethernet installation

102 upvotes · 36 comments



r/HomeNetworking • 23 days ago

Chase a network problem. Took me forever to figure it out

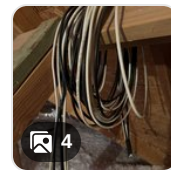
316 upvotes · 115 comments



r/HomeNetworking • 23 days ago

Ethernet through the attic or use this coax?

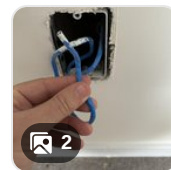
182 upvotes · 92 comments



r/HomeNetworking • 24 days ago

New home Ethernet wired in rooms?

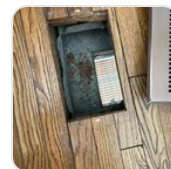
145 upvotes · 87 comments



r/HomeNetworking • 6 days ago

Can I run an Ethernet cable through this vent to the next floor?

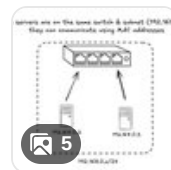
263 upvotes · 118 comments



r/HomeNetworking • 1 mo. ago

Is my basic understanding of switches & routers correct? [diagrams]

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r/HomeNetworking • 9 days ago

Virgin Media Super hub 3 too many devices advice on way forward

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225 upvotes · 270 comments

 r/Ubiquiti • 3 yr. ago

Help understanding VLAN / the need for more than one managed switch.

1 upvote · 3 comments

 r/HomeNetworking • 28 days ago

If I name my wifi access points the same, will my phone auto connect to the strongest?

141 upvotes · 143 comments

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VLAN between non-wireless router and WAP

6 upvotes · 12 comments

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UniFi network design - UDR WAN via VLAN?

2 upvotes · 22 comments

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Preliminary Server/Network Diagram, with questions

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Setting up a VLAN on home network for VM

2 upvotes · 6 comments

 r/HomeNetworking • 5 days ago

Anyone Know Where To Source This?

5.1K upvotes · 277 comments

 r/HomeNetworking • 16 days ago

2 Cat6 Ethernet ports in all rooms, 1 works other does not

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2 upvotes · 28 comments



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Layer 3 Leaf/Spine without overlay network controller?

23 upvotes · 21 comments

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