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r/HomeNetworking



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r/HomeNetworking • 5 yr. ago

gribson



Layer 3 Switch, Or Layer 2 + Firewall/Router?

Advice

So I'm finally upgrading my home network from IPtables on a KVM host + OpenWRT on a TP-Link C7, and am trying to decide what the best architecture would be for my needs. I need to do some basic inter-VLAN policy-based routing, along with external NAT, port forwarding, and VPN.

I'd like to hear some suggestions on how to best implement this. I'm planning to use EOL enterprise equipment, partly for the cost and performance compared to consumer devices, but mostly for the nerd-cred. My initial thoughts are to go with a layer-3 switch like a Cisco SG300, because the heaviest load on my OpenWRT box during regular operation comes from VLAN routing. Then my external network needs can be handled by a Forigate 60D or similar.

BUT I've never used a layer-3 switch before, so I'm kind of guessing at whether this is best option. I know that I could buy a decent used layer-2 switch for peanuts, and use a more powerful router to handle all my layer-3 needs, but I'm worried that the router would still be the bottleneck of my network.



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3



7



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HelloYesThisIsNo • 5y ago

In that case yes. Do you really expect to hit the 1 gbit/s often?



2



gribson OP • 5y ago

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Anyone Know Where To Source This?



5.1K upvotes · 277 comments

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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

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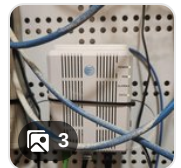
Ethernet Stress Test (Cable Torture)



587 upvotes · 76 comments

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Please help im desperate and confused



101 upvotes · 61 comments

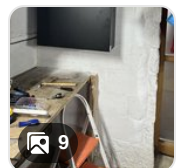
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Last update: I'm not getting gigabit but my husband is

316 upvotes · 21 comments

r/HomeNetworking • 27 days ago

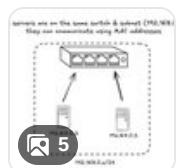
Thought I would share my home setup



170 upvotes · 24 comments

r/HomeNetworking • 1 mo. ago

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



241 upvotes · 75 comments

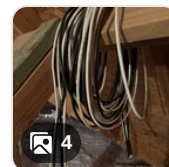
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223 upvotes · 94 comments



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Ethernet through the attic or use this coax?

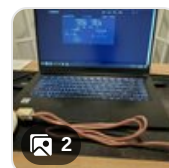


182 upvotes · 92 comments



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Gigabit Over Thermostat Wiring lol

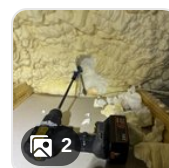


1.2K upvotes · 113 comments



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DIY Ethernet installation

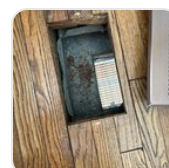


102 upvotes · 36 comments



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



263 upvotes · 118 comments



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

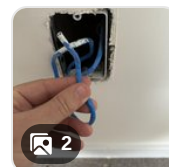


97 upvotes · 41 comments



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New home Ethernet wired in rooms?



145 upvotes · 87 comments

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316 upvotes · 115 comments



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Any of you been CGNAT'd by your ISP?

144 upvotes · 158 comments



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New home network setup

218 upvotes · 30 comments



r/HomeNetworking · 9 days ago

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

136 upvotes · 41 comments



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

141 upvotes · 143 comments



r/HomeNetworking · 16 days ago

TP-Link potential U.S. ban discussion

225 upvotes · 270 comments



r/HomeNetworking · 3 days ago

Bought a house. Help. What is this?

369 upvotes · 75 comments



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Can I swap this Cat 5e cable coming from my ONT w/ a Cat 6 cable?

282 upvotes · 223 comments



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258 upvotes · 140 comments



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First Time Networking in my first home. How did I do?



434 upvotes · 69 comments



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Just got my new router! Very happy with my little network.



231 upvotes · 39 comments

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