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r/Tailscale



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r/Tailscale • 2 yr. ago

BB-Crazy



Custom own DERP with high-speed VPS

Question

Is it possible for me to rent a high-speed vps to be my own DERP server?. And are there detailed instructions for creating your own DERP server? I read the Docs on the homepage but still don't understand how to deploy. Thanks so much



4



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chacuavip10 • 2y ago

It will help with latency (ping), but not much for speed. The problem is derp relay use tcp, not udp. I give up my custom derp long time ago.



6



Reply



im_thatoneguy • 2y ago

I wish there was a Tailscale router.



3



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2 more replies

BB-Crazy **OP** • 2y ago

So, how to customize DERP using UDP protocol?, do you know?



1



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The issue with speed is because Tailscale's DERP relay servers are **public** and thus throttled heavily to accommodate many users.

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NationalOwl9561 • 1y ago

 Top 1% Commenter

Could you explain this a little more? I think most people want to host their own DERP server in order to avoid the congested/throttled public DERP relay servers. So, I still would expect a throughput improvement by hosting a custom DERP server on the same device as my exit node. No?

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julietscause • 2y ago • Edited 2y ago

Is it possible for me to rent a high-speed vps to be my own DERP server?.

Yes there are tons of VPS offering cheap boxes for people to "rent". My suggestion is find something that is very close to your home/country to minimize latency as much as possible

Note: If you are dealing with tailscale clients in different countries/locations you will want to pick a VPS that will let you stand up a virtual box in a country that is closes between the different countries. This can get tricky if you have clients on opposites sides of the world or clients that are constantly on the move/traveling.

1. Pick a VPS that meets your budget
2. Pick a distro for your server (Go with ubuntu)
3. **Important step:** Make sure the SSH port is locked down to **YOUR** public ip address, that way you dont expose SSH directly to the entire internet
4. SSH into your VPS and update your virtual server
apt-get update && apt-get dist-upgrade
5. Once its updated then walk through these steps:
<https://headscale.net/running-headscale-linux/#installation>
6. Depending on what VPS you go with you might need to open up the ports for headscale to work

<https://earvingad.github.io/posts/headscale/>

AWS lightsail is pretty simple when it comes to standing up an instance, but make sure you understand the costs associated with it once the free tier ends

Make sure you read up on the VPS when it comes to bandwidth. Some do charge when you hit a certain threshold when it comes to data out of a VPS (this varies from VPS to VPS) so do your research! Last thing you want is a random huge bill because you transferred a ton of stuff with your VPS

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Thank you for your enthusiastic support. Do i need open any ports (NAT) for headscale ?

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mad153 • 2y ago

My experience is that it's still really slow unfortunately

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No more DERP relays on our university network.

56 upvotes · 10 comments



r/selfhosted • 2 mo. ago

VPS to Dedicated?

5 upvotes · 45 comments



r/Tailscale • 2 mo. ago

DNS Health Warning

27 upvotes · 14 comments

Health warnings

DNS unavailable
Tailscale can't reach the configured DNS
servers. Internet connectivity may be
affected.



r/opnsense • 4 mo. ago

How to properly set a DHCP reservation?

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TCP vs UDP



208 upvotes · 7 comments



r/VATSIM • 2 mo. ago

Interest in a website with real life SOPs?

22 upvotes · 10 comments



r/talesfromtechsupport • 1 mo. ago

Error Messages are way too complicated! Help me now!

995 upvotes · 133 comments



r/networking • 3 mo. ago

Anyone ever run into problems with an IPv4 sale? Interesting event happened to me...

63 upvotes · 25 comments



r/VATSIM • 9 days ago

Just did my second emergency in the network

51 upvotes · 32 comments



r/CommercialAV • 2 mo. ago

Do you build with DHCP or static IP

35 upvotes · 63 comments



r/mcp • 1 mo. ago

Today I shipped Sequential Thinking MCP server

4 upvotes · 3 comments



r/networking • 20 days ago

MPLS - do ISPs allow customers to configure their CE?

36 upvotes · 37 comments



r/ShittySysadmin • 5 mo. ago

OP runs LLM model on shared VCPUS. Does not keep backups of the source code.

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r/ender3 • 2 yr. ago

Another Schmuck with E3 Free-runs TMC2209 32-bit Open Source Silent Motherboard (with CRtouch) needing firmware.

1 upvote · 4 comments



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4 upvotes · 1 comment



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2 upvotes



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1 upvote · 1 comment



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