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[Log In](#)**Alexander Patrakov**

u/patrakov

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**r/linuxhardware** • Which laptop to purchase for max compatibility with Linux?**patrakov** replied to **TheRealAndrewLeft** 1 day ago

Broadcom WiFi is not an issue anymore: nowadays, they only sell chips intended for use in access points or mobile phones/tablets, not laptop-style clients.

Mediatek WiFi other than MT7902 (for which no driver exists yet) is tolerable.

In many cases, the WiFi card is field-replaceable.

MIPI cameras cannot be an issue on AMD laptops because the chipset that sits between the camera and the CPU is Intel-only.

 1 **Reply** **Share** ...**r/openwrt** •

Can firewall allow communication between clients with Wifi client isolation enables ? What layer does client isolation works on ?

patrakov replied to **RedditNoobie777** 2 days ago

The two WhatsApp clients are not communicating over the LAN. They mediate their communication through the cloud.

The best way to determine if ARP attacks work is to try one in a test network.

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patrakov commented 2 days ago

Client isolation works on layer 2.

In secure datacenters, it is common to assign /32 netmasks to servers and configure the switch to only allow communications between the servers and the router, not between servers directly. This way, all communications are transformed into layer-3 ones (i.e., routed through the router, not switched at the Ethernet level), and traditional firewall rules configured on the router then apply.

For home networks, this setup is extremely rare due to the associated performance overhead, as it completely disables the fast path made possible with bridging and breaks multicast-based network neighborhood discovery. You can still try it.

Add the string below to the "Additional options" advanced field in the DHCP server config for the LAN:

```
1,255.255.255.255
```

Or, equivalently, put this line into `/etc/config/dhcp` and restart `dnsmasq`:

```
list dhcp_option '1,255.255.255.255'
```

This works with Arch Linux and Windows 11. Other operating systems might not support the /32 netmask, as it has been a relatively recent-ish addition to the standards.

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r/linuxhardware • Which laptop to purchase for max compatibility with Linux?

patrakov commented 3 days ago

A laptop that somebody else has tested, up to every letter in the product code. Failing that, any AMD-based laptop.

Intel-based laptops are still a hit-and-miss game because of MIPI cameras with unsupported sensors, and it is not easy to determine whether a given laptop contains a MIPI or UVC camera. It is definitely not in the published specs.

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btrbk + an iSCSI target provided by OpenWrt on my router (which has a big SSD connected), plus LUKS for encryption.

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r/debian • To all the Linux-only users

patrakov commented 4 days ago

Society does not matter, until it does. The only reason to use Windows, for me, is to generate and print various "alphalists" required for taxes once per quarter through a Windows-only governmentware. When I stop being the company owner, or when I offload this tax bureaucracy to somebody else, I will have zero reason to install Windows.

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r/ceph • Got 4 new disks, all 4 have the same issue

patrakov replied to **Substantial_Drag_204** 4 days ago

Please follow <https://tracker.ceph.com/issues/70390>, which is the upstream ticket for this bug.

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r/ceph • Got 4 new disks, all 4 have the same issue

patrakov replied to **Substantial_Drag_204** 5 days ago

I don't know. The customer was advised to abandon their cluster and copy the data elsewhere. And not to use Squid yet.

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r/ceph • Got 4 new disks, all 4 have the same issue

patrakov commented 5 days ago

Hi! Your issue is completely unrelated to the hardware. I have seen another customer with the same crash on Ceph 19.2.1.

Please refrain from deploying new OSDs using the Squid image until the bug is fixed (i.e., hopefully until release 19.2.2, but no promises).

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Linksys E8450 (just barely good enough, I would certify it only up to 450 Mbps for PPPoE + SQM)

Cudy TR-3000 (compact but powerful)

GL.iNET GL-MT6000 (overkill)

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r/openwrt • Router recommendation for SQM on 300/300 Mbps connection?

patrakov replied to **NC1HM** 9 days ago

This is probably too weak: relies on hardware offloads for common use cases.

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r/openwrt • Portable Openwrt router suggestions

patrakov commented 9 days ago

Cudy TR-3000.

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r/linuxhardware • Does the Lenovo yoga 7i gen 9 work well with Linux?

patrakov replied to **GBember** 10 days ago

I am talking about this:

Lenovo Yoga Duet 7 13ITL6 (82MA007HPH) Windows 11 Home Laptop | Intel Core i7-1165G7 | 16GB DDR4 Memory | 1TB SSD M.2 Storage | Intel Iris Xe Graphics | 13 Inches 2K IPS Display | 10-point Multi-touch | MS Office Home & Student 2021 | Slate Grey

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r/linuxhardware • Does the Lenovo yoga 7i gen 9 work well with Linux?

patrakov commented 10 days ago

Not really.

- Non-working cameras (no sensor drivers, so the recent work by Hans de Goede is not helpful)
- Incomplete suspend (the fan still turns and drains battery while the laptop is suspended)

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OK, use the 7300. No objections.

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r/Proxmox • Ceph: 1xNVMe or 2xSata SSD

patrakov replied to **aristanooob** 22 days ago

I have seen Micron 7450 Pro in others' Ceph clusters. I know how it performs. For me, it is THE default enterprise SSD.

I don't know anything about the 7300 Max, but the Max series consists of ultra-durable SSDs, which are overkill for a simple Ceph cluster.

Based on the specs, the 7300 Max SSD is a PCIe Gen3 NVMe SSD, while the 7450 Pro is a Gen4 SSD. Also, on NewEgg, the 7450 Pro is cheaper than the 7300 Max. So, unless you need to overwrite the drive three times per day during the warranty period, there is no reason to prefer the 7300 Max.

Today, if I needed a wearout-proof SSD, I would choose the 7450 Max.

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r/Proxmox • Ceph: 1xNVMe or 2xSata SSD

patrakov replied to **aristanooob** 22 days ago

Micron 7450 Pro is a very popular choice among Ceph users. However, you might need to update its firmware before you put it into your Ceph cluster to avoid latency spikes.

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You need one SSD for MON and one for OSD.

Technically, it is possible to have them on the same drive with NVMe namespacing or partitions, but not recommended.

Also, three-node clusters are not recommended: if one SSD fails, and another pandemic hits (or other supply chain issues), you will not be able to reboot the other node without client-visible downtime.

Therefore, for a small test cluster, I recommend 4 nodes, each of them having 1x SATA SSD + 1x NVMe, or 2x NVMe (one for MON, except for one node where it is a spare, and one for OSD). Make sure that even for small test clusters you buy enterprise drives. Otherwise, because all writes by Ceph are synchronous, you will burn through the drive lifetime in a matter of months.

My personal recommendations are Micron 7450 Pro (for a cost-optimized cluster) and Samsung PM1743 (for a faster one).

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r/linux • Is there a way to choose system with Dual boot with a bluetooth keyboard?

patrakov commented 25 days ago

You would need a BlueTooth adapter that features a HID Proxy protocol. This is something that is no longer manufactured, and your best bet is a D-Link DBT-120 dongle from year 2003.

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r/Proxmox • WSL Ubuntu 24 in Windows VM causes significant slowdown

patrakov commented 25 days ago

WSL is a VM. So, you are running a VM in a VM, so yes, expect slow performance.

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r/archlinux • Compliance requirement

patrakov commented 26 days ago

What they are asking for is centralized authentication instead of /etc/shadow. Please set up a SAMBA AD controller (or, if you find this easier, OpenLDAP + maybe Kerberos) and use SSSD to authenticate against it. Then you should be able to add 2FA as required by the other requirement.

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Then you are buying a dumb phone. This is good for security (it is immutable and can't send any significant volume of data out), and in fact, smartphones, or phones with cameras in general, are banned in some countries military units and organizations.

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r/ **r/openwrt** • Best Wi-Fi 6(E) router with OpenWrt support

patrakov replied to **dandelionc** 28 days ago

So maybe GL.iNet GL-MT6000 is the least troublesome option after all... That's what I use.

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r/ **r/openwrt** • Best Wi-Fi 6(E) router with OpenWrt support

patrakov replied to **dandelionc** 28 days ago

Please use this NSS build with MX8500:

New NSS firmware, non-working mesh: <https://github.com/AgustinLorenzo/openwrt/releases/tag/ipq807x-nsswifi-2025-02-09-2231>

Older NSS firmware where mesh still works:

<https://github.com/AgustinLorenzo/openwrt/releases/tag/ipq807x-nsswifi-mesh-2025-02-10-0126>

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r/ **r/openwrt** • Best Wi-Fi 6(E) router with OpenWrt support

patrakov replied to **dandelionc** 28 days ago

The general thread is <https://forum.openwrt.org/t/openwrt-support-for-linksys-mx8500/190742>, but it starts with developers discussing how to add support. You can skip until <https://forum.openwrt.org/t/openwrt-support-for-linksys-mx8500/190742/219>.

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r/Proxmox •



allocated more than my hard disk capacity to lvm-thin pool, is there a way to shrink it? will it cause future problems?

patrakov commented 1 mo. ago

As long as you don't actually use more than the actual capacity of the HDD, it's absolutely OK to have a thin pool with fake extra capacity. That's the whole point of thinly provisioned LVM pools. You can later buy another HDD and create a PV on it, then add it to the VG and extend the thin pool.

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The card is definitely supported. Perhaps it is just disabled, so that Kali could use it for the intended purposes, like sniffing and attacks, which do interfere with the "normal" use?

Please follow the usual driver troubleshooting sequence as you would do in other distros:

```
lsmod  
dmesg
```

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r/openwrt • GL-MT6000 and DL-WRT36 with OpenWrt seamless?

patrakov replied to **nutrigrain** 1 mo. ago

Yes. OpenWrt does not have any device linking feature.

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r/openwrt • GL-MT6000 and DL-WRT36 with OpenWrt seamless?

patrakov replied to **nutrigrain** 1 mo. ago

Now that you mentioned it, while DL-WRX36 supports both 4x4 MIMO and 160 MHz channels separately, it cannot support both features at the same time. MT6000 has no such restriction.

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r/openwrt • GL-MT6000 and DL-WRT36 with OpenWrt seamless?

patrakov commented 1 mo. ago

2x MT6000 is definitely a good setup, and that's what I recommend if the price were not an issue.

DL-WRX36 still has some WiFi driver issues, e.g., it requires the non-default "multicast to unicast" box ticked in some LAN-to-WiFi communication scenarios, see <https://github.com/openwrt/openwrt/issues/9555> . That's why I can't recommend it.

And for your DFS question: devices connected to the WiFi AP always rely on the AP to detect the radar and to properly announce its move to a different channel. What the Zero DFS feature provides is the immediate knowledge of another DFS channel that is not affected by the radar (hey everyone, channel 100 has a radar, I am moving to channel 116, effective immediately, please reconnect there). It is also useful for zero-downtime return from a non-DFS channel to a DFS channel once the radar disappears.

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Any MediaTek based device supports 802.11s. This includes both of your Belkin devices.



2

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r/archlinux • Scary Btrfs – Is Btrfs oversold? What filesystem do Arch users prefer?

patrakov replied to **botiapa** 1 mo. ago

Thanks for the recommendation. I got a plausible explanation for the wasted space, accounting for approximately the correct amount:

"data in extents containing older versions of file content which has since been overwritten"



2

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r/linux • How do I convince someone that Linux is, in fact, a "normal operating system?"

patrakov commented 1 mo. ago

There is no way to convince them. Google "solipsism" and understand why it applies and why it is logically irrefutable.

And don't try to convert them. I did, and the only result was a few "everything works perfectly, thanks" lies over the phone, and a little note with "computer support" phone number on the shelf, and a fresh Windows installation made by that support guy.



2

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