Raspberry Pi: Rocket.Chat, $50 Raspberry Pi 4 Kit, Education and More

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The internet offers plenty of free messaging services. Applications like WhatsApp and Viber are part of our daily life and are the most common way we communicate with relatives and friends. But security awareness is increasing the demand for a truly private chat solution. Furthermore, messaging apps take up a lot of space in our devices, so an alternative chat channel could be useful to share media, info, and contacts with our friends.

Today we are going to see how to install a private chat and messaging server with a Raspberry Pi and Rocket.Chat.

Start hacking at home with this $50 Raspberry Pi 4 kit [5]

That’s not a bad starter pack at all, especially if you plan to use the Raspberry Pi 4 for some hardware hacking. If your plan is to use this as a regular PC, you might also want a Raspberry
Pi 4 case. Either way, be sure to check out the aforementioned Humble Bundle if you’re looking for ideas on how to use it, along with our guide to 10 surprisingly practical Raspberry Pi projects anybody can do.


- Henri Bergius: Cruising sailboat electronics setup with Signal K [7]

  With this, we had a workable lighting and power setup for overnight sailing. But next obvious step will be to increase the range of our boat.

  For that, we’re adding a solar panel. We already have most parts for the setup, but are still waiting for the customized NOA mounting hardware to arrive. And of course the current COVID-19 curfews need to lift before we can install it.

  Until we have actual data from our Victron MPPT charge controller, I’ve run some simulations using NASA’s insolation data for Berlin on how much the panel ought to increase our cruising range.

GNU Linux Hardware

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