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Home assistant docker vs raspberry pi

12. 20216. April 2020 by cdaviddav categories Smart Home Post navigation Home Assistant MQTT tutorial HASS.io Raspberry Pi Setup tutorial In this tutorial I will show you how to install home assistant Raspberry Pi with Docker. Home Assistant is an open source project that aims to maintain your own home automation system with a focus on local control and privacy in your hands. It's a complete customizable, web based dashboard to control your devices and interface with your favorite smart life services. It tracks the health of all devices in your home, so you don't have to set up complex management systems and focus on integrating devices and writing automations. Home Assistant works well on Rasperry Pi and has been transformed into the best home automation hub. Last but not least, all data is stored locally on the host to protect personal data from unwanted external data usage. For this project, I will use a cheap Raspberry Pi Zero W. This procedure works with all other Raspberry Pi tables that have an Internet connection and can run Docker. The Raspberry Pi 3 B or later is recommended for production. Be aware that the correct power supply, as many users read the service restart is a bad power source. What we need, as usual, I suggest adding from now on your favorite e-commerce shopping chart with all the necessary hardware that in the end you will be able to evaluate your overheads and decide whether to continue your project or remove them from your shopping chart. So, hardware will be only: Check your hardware prices with the following links: Step-by-Step procedure start preparing the operating system. Install Raspberry Pi OS Lite (for fast, headless and light os) or Raspberry Pi OS Desktop (in this case, you are working from the internal terminal). The Raspberry Zero W strongly recommend Lite distribution because home assistant is quite difficult for Pi Zero, and it requires all the computing power to run HA service. Keep your operating system up to date. From terminal: sudo apt update -y & sudo apt upgrade -y You also need to install docker in raspberry Pi (you do not need docker-compose and/or Portainer for this project). Installing a test environment starting with a lab is very simple for Docker containers. This means that whatever you will do in this installation, the container will be removed after it is removed. This is a useful configuration if, for example, you want to test integration tests without affecting the production environment. This is also the best way to try, usually, Home-Assistant for Raspberry Pi. Obtaining a full and functional HA instance is as easy as running the following command from the terminal: docker run -p 8125:8123 --name homeAssTest homeassistant/home-assistant port mapping is a configuration that has port 8123 to storage port 8125 (default home assistant port). This is a possible way to get different home assistant copies (perhaps test and and on the same Raspberry Pi. Multiple HA containers can run in RPI tables with sufficient compute power (for example, Pi 3 B or later) and are not the best in Raspberry Pi Zero W or Pi 3 A. After downloading the home assistant image (this action will only occur during the first docker run, the following will use the image that has already been downloaded) the terminal displays storage logs: WARNING: The requested image platform (linux/arm) does not match the detected host platform (linux/arm/v6) and no separate platform [s6-init] was requested for user-provided files in the /var/run/s6/etc... exited 0. [s6-init] ensuring the user has secured files with correct perm ... exited 0. [fix-attrs.d] application of ownership & licenses repairs ... [fix-attrs.d] ready. [cont-init.d] execution of container initialization scripts... [cont-init.d] udev.sh: executor ... starting version 3.2.9 [11:29:50] INFO: Update Udev data [cont-init.d] udev.sh: exited 0. [cont-init.d] complete. [services.d] starts [services.d] services. At this point, the container runs, but it takes a few minutes to initialize itself. My favorite browser, use the Raspberry Pi IP address (mine is a 192.168.1.80) to url . If this page returned an error, wait for the home assistant store to end initialization operations. Requires a new user creation on the first page: Enter your favorite name, username, and password. Then click Create Account. On the next screen, you can specify your home name, position, and unit system settings. Set it to suit your needs: Click the next button at the end of the page. The final first access page checks to see if you want to set up the first integrations/services. You can set them up later on the dashboard, so click Finish. Home assistant dashboard loads: From here, you can use it to follow home assistant documents or home assistant examples. Deploy production: The production environment contains all the data you need to actually use the home assistant. From the terminal, use the following command: docker run -d -p 8123 -8123 -v /home/pi/homeAssProd:/config -restart-unless-stopped --name homeAssProd homeassistant/home-assistant This time, -d option is used to disconnect the container from the terminal. The port mapping (-p setting) will use the same port number for both internal and external bindings. Because IF uses the /config storage folder to store data and configurations, this folder will be mapped to the host with the -v option. I'm using a home/pi/homeAssProd folder, but you are free to store it where you prefer. In this way, if you need to migrt to another host (for example, another Raspberry Pi), you only need to keep one copy of the folder without moving the entire storage data. This also means that makes it possible to copy this folder to another homeAssTest folder and protect the scans in another environment from a production one. The restart policy (-restart) stores the home assistant container restarts until the user stops it. After these operations, the Home-Assistant container will be available and a new, fresh instance will begin again. Enjoy! Last updated on January 16, 2021 at 11:20 AM There are several ways to install Home Assistant from scratch and show you two different methods (Home Assistant Supervised & Home Assistant Container). Home Assistant Container & Home Assistant Managed Installation Methods (2020) What do you get from this article? The first method – the so-called Home Assistant Container is actually a Home Assistant running in a Docker container, and there is no add-on storage. The second is called Home Assistant supervised full Home Assistant experience and add-on store. Both methods that I'm about to show you have some Pros and Cons, so you better read the whole article and decide yourself which one is right for you. And before you even ask - YES, both methods can be installed on the Raspberry Pi boot from USB drive. 📌 Read this to learn more about this topic. Now let's start with this: Home Assistant Container Method This method is officially supported and you can expect it to work for a long time. You will need a Docker client, just go to this official Docker site and download and install it. For MacOS and Windows, you'll need to go to the Docker desktop from the link above. Docker Desktop on MacOS For Linux again selects the Linux distribution from the link above and follow the instructions. When you're ready to install the Docker client, you'll eventually need to create a free Docker user, which is a simple and simple task. You will then need to create an empty folder on the host where Docker is installed and where Home Assistant will run. On MacOS and Linux, you can use something like this, which creates a folder in the user folder. Please adjust the folder path to suit your needs. mkdir ~/EMPTY_FOLDER_ON_YOUR_HOST In this folder, the Home Assistant configuration files are stored when the docker command is executed. To do this, just open a terminal/command prompt and type docker run --init --restart-unless-stopped --name=home-assistant -e TZ=Europe/Sofia -v ~/EMPTY_FOLDER_ON_YOUR_HOST:/config -p 8123:8123 homeassistant/home-assistant:latest that command means: Download and run the latest Home Assistant Docker image as container named home-assistant. From the Docker container, the host uses port 8123 in the Europe/Sofia time zone Try to always restart this container if it is stopped for any reason, unless you manually stop it. When you first run this, you'll need an Internet connection to download the Home Assistant image. It will take some time depending on the internet speed. When everything is complete, you can open a new browser/page and enter the following URL: Replace YOUR_HOST_IP with your real hostIP address and be received by the Home Assistant welcome page, where you can create a user. Home Assistant Welcome screen to create users. Home Assistant Managed Method Important December 2020 Update: Please note that the latest version of Docker 20.10 is not compatible with the Home Assistant Managed Installation method and you need to use the previous Docker version to make it work. To downgrade the Docker installation, check the operating system package manager documentation for the exact steps. More information on the subject can be found here. Please note that the Home Assistant Supervised method is out of date, but not long after it is returned to support. Nevertheless there is still no official Home Assistant Supervised installation guide until now. This means that this method may stop at some point in the future, but you don't have to worry too much. Once you successfully install the Home Assistant using a managed method - you will be able to upgrade your Home Assistant afterwards. Last words if you still have a dilemma to use this - I just want to say that I have this method for several years in my home and I had some issues which I think is due to SD card corruption in my Raspberry. Everything else worked flawlessly. Enough with the sweet talk, let's get to the real problem. Open a terminal and type the following command to update the package manager. sudo apt-get update After that you need to install some packages with the following command sudo apt-get install network manager apparmor-utils git -y Chances are that you already have it, so do not be surprised if this is the case Next you need to clone the IoTstack project to make our lives easier Home Assistant supervised installation. This project is excellent and can now be found on the GitHub page of Andreas Spiess (Guy with Swiss Accent). I think he's in good hands. Who is the host of the IoTstack project? Just clone the repo by performing this: git clone --IoTstack To start the menu: cd ~/IoTstack & bash ./menu.sh Subscribe button still supports? Hey, as far as I know, the peyanski.com newsletter still supports it. You can test it by crushing the SUBSCRIBE button. If you receive a confirmation email and confirm your registration you should receive a bonus material from me (Smart Home Guide article) Thank you. Let's continue ahead: You'll see the Norton Commander style menu (OMG, I'm getting older), where you can first install Docker if there's such a need, and then you can select Install Hass.io (Docker required) from the menu. Home Assistant supervised installation Just press and at some point you will be asked to select your device type. For AMD / Intel based computers you can choose qemuX86 or qemuX86-64 with raspberry you have to choose ... What do you think? ☞ The right raspberry model of course ☺ Select device type Home Assistant supervised Read more, you can open a new browser / tab and enter the URL-t: Csere YOUR_HOST_IP YOUR_HOST_IP the real host IP and you will be greeted with a similar site (see below), saying that you can wait up to 20 minutes for the Home Assistant managed installation to complete. Waiting for the Home Assistant supervised installation to complete You can press the update button from time to time or just relax and wait, but the best will be to watch some of my videos ➡ while waiting. Home Assistant VIRTUAL MACHINE method is also a supported installation method (third) for Home Assistant with full functionality. This method was previously Hass.io known as The Ha operating system (HASSOS). It can run on various one-table computers, such as rasperry pi or a virtual machine. Check the detailed video article to learn more about this method. Is it a matter of the day what Home Assistant installation method you like best? Bonus points if you say why! Let me know what you think of the comments below. Support my work if you like what you've seen so far and want more of this content, you might want to check my support page with one of my supporters (actually the first one). Any other kind of engagement on this site and my YouTube channel doesn't really help out much with Google & YouTube algorithms, so be sure to hit the sign-up as well as the Like and Bell buttons if you like this Home Assistant supervised and container video article. Also feel free to add me to Twitter looking for @KPeysanski. You can find me on my Discord server as well. I really hope you find this information useful and now you know how to install Home Assistant from scratch using the Home Assistant Container and Home Assistant Supervised methods. Stay safe and don't forget Home Smart, but it's not hard! Thank you for reading it, and I'll see you next time. Time.

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