

Docker on raspberry pi's

smaller projects run from raspberry pi's

- rasp-007
 - Pi-Hole
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- Installing Docker
 - Install docker and docker compose

rasp-007

raspberry pi 7

rasp-007

Pi-Hole

Pi-Hole currently being run here in docker compose

##Docker compose file##

sudo nano docker-compose.yml

```
version: "3"
services:
  pihole:
    container_name: pihole
    image: pihole/pihole:latest
    ports:
      - "53:53/tcp"
      - "53:53/udp"
      - "67:67/udp"
      - "80:80/tcp"
      - "443:443/tcp"
    environment:
      TZ: 'America/New_York'
      WEBPASSWORD: 'SecurePasswordHere' #passwordfor the web api
      ServerIP: 'StaticIP here'
      # Volumes store your data between container upgrades
    volumes:
      - './etc-pihole:/etc/pihole/'
      - './etc-dnsmasq.d:/etc/dnsmasq.d/'
    dns:
      - 127.0.0.1
      - 8.8.8.8 #google dns
    restart: unless-stopped
```

rasp-007

PiVPN

PiVPN is being run from this pi

- `curl -L https://install.pivpn.io | bash`

This was an easy solution to get VPN access to devices in my home

This was done on rasp-007 so it could integrate easily with Pi-Hole, all devices on VPN use dns from Pi-Hole and get ad blocking on the go

Installing Docker

Install docker and docker compose

##Install Docker##

```
curl -fsSL https://get.docker.com -o get-docker.sh
sudo chmod +x get-docker.sh
sudo ./get-docker.sh
sudo usermod -aG docker pi
```

##Install Docker-Compose##

```
sudo apt-get install -y libffi-dev libssl-dev python3 python3-pip
sudo apt-get remove python-configparser
sudo pip3 install docker-compose
```