

Docker and Portainer

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Installing docker, cockpit and portainer

Install Docker

```
curl -fsSL get.docker.com -o get-docker.sh sh get-docker.sh
usermod -aG docker root
systemctl start docker
sudo systemctl enable docker
```

Install cockpit and cockpit docker plugin

```
yum install cockpit cockpit-docker
systemctl enable --now cockpit.socket
```

Install Portainer 2.x

```
docker volume create portainer_data
docker run -d -p 9000:9000 --name=portainer --restart=always -v
/var/run/docker.sock:/var/run/docker.sock -v portainer_data:/data portainer/portainer-ce
```

Installing source control using gitea

Using portainer stacks to install Gitea source control:

```
version: "3"

networks:
  gitea:
    external: false

services:
  server:
    image: gitea/gitea:1.15.10
    container_name: gitea
    environment:
      - USER_UID=1000
      - USER_GID=1000
    restart: always
    networks:
      - gitea
    volumes:
      - ./gitea: /data
      - /etc/timezone: /etc/timezone: ro
      - /etc/localtime: /etc/localtime: ro
    ports:
      - "3030: 3000"
      - "222: 22"
```

[YouTube video of installing gitea on portainer/docker](#)

<https://www.youtube.com/embed/7UcqUrl2DqI>

Installing leantime project manager

Using portainer to install leantime:

```
version: '3.3' # not sure if version
services: #services section
  db:
    image: mysql:5.7
    container_name: mysql_leantime
    volumes:
      - db_data:/var/lib/mysql
    restart: always
    environment: #Environment section
      MYSQL_ROOT_PASSWORD: '321.qwerty'
      MYSQL_DATABASE: 'leantime'
      MYSQL_USER: 'admin'
      MYSQL_PASSWORD: '321.qwerty'
    command: --character-set-server=utf8 --collation-server=utf8_unicode_ci
  web:
    image: leantime/leantime:latest
    container_name: leantime
    environment:
      LEAN_DB_HOST: 'mysql_leantime'
      LEAN_DB_USER: 'admin'
      LEAN_DB_PASSWORD: '321.qwerty'
      LEAN_DB_DATABASE: 'leantime'
    ports:
      - "2080:80"
    depends_on:
      - db
volumes:
  db_data: {}
```

You tube video of installing leantime:

<https://www.youtube.com/embed/0Hbtm1RTAFI>

Installing Dashy

Great landing page to access your self-hosted applications:

<https://github.com/Lissy93/dashy>

Docker compose file/stack for portainer:

```
---
version: "3.8"
services:
  dashy:
    container_name: Dashy

    # Pull latest image from DockerHub
    image: lissy93/dashy

    # Set port that web service will be served on. Keep container port as 80
    ports:
      - 4000: 80

    # Set any environmental variables
    environment:
      - NODE_ENV=production

    # Specify restart policy
    restart: unless-stopped

    # Configure healthchecks
    healthcheck:
      test: ['CMD', 'node', '/app/services/healthcheck']
      interval: 1m30s
      timeout: 10s
      retries: 3
      start_period: 40s
```

[You tube video of install of Dashy](#)

<https://www.youtube.com/embed/rLadVYOvNY0>

Install Portainer on new binglab server

Here we are gong to be install just portainer on a docker installation on ubuntu:

```
## Check to see if docker is running
docker ps

## Command to show Docker images
docker images

## Command to create a volume and its name
docker volume create portainer_data

## Docker command to run the container using the persistant volume created earlier and and to
always restart
docker run -d -p 8000:8000 -p 9443:9443 --name portainer --restart=always -v
/var/run/docker.sock:/var/run/docker.sock -v portainer_data:/data portainer/portainer-
ce:latest

## Verify Docker container is running
docker ps

## Verify Source/docker IP address of Main system
ip a
```