



## Install on NAS synology with docker package

It's a 2 steps installation :

1. build images on your own computer
2. transfer & installation on NAS

### On your computer:

Follow instructions described in the Readme section like a standard docker installation on your computer but without running the containers (docker run commands)

You should obtain 3 images (pgd-mmdt-dbpart, pgd-mmdt-scanpart, pgd-mmdt-webpart) when running command `sudo docker images`.

#### **Images backup**

Open a terminal in a folder of your choice to store those images

```
sudo docker save pgd-mmdt-dbpart:latest > pgd-mmdt-dbpart.tar
```

```
sudo docker save pgd-mmdt-scanpart:latest > pgd-mmdt-scanpart.tar
```

```
sudo docker save pgd-mmdt-webpart:latest > pgd-mmdt-webpart.tar
```

#### **Compress web folder**

Use your file browser (Nautilus, thunar, etc) or in command line to compress the web folder in zip format for example web.zip

### On your NAS :

#### **Requirement**

Install Docker package using the synology package manager

#### **Folder creation**

Create if not existing a shared folder for your pgd datas for example pgd\_datas

Create for example in the docker shared folder 2 sub-folders

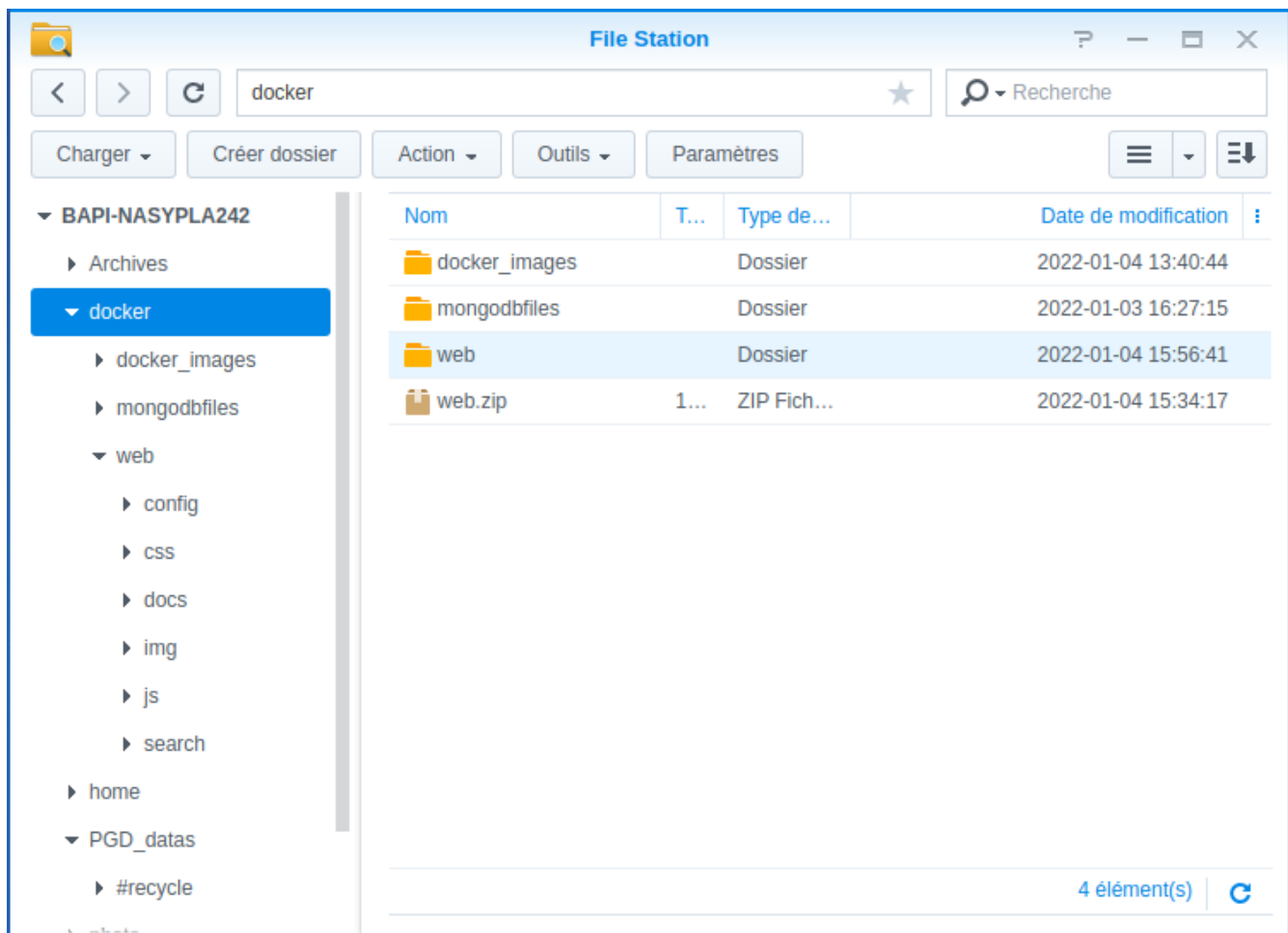
- docker\_images
- mongodbfiler

#### **Files upload**

Use synology File Station to upload the following files :

- pgd-mmdt-dbpart.tar in /docker/docker\_images
- pgd-mmdt-scanpart.tar in /docker/docker\_images
- pgd-mmdt-webpart.tar in /docker/docker\_images
- web.zip in /docker

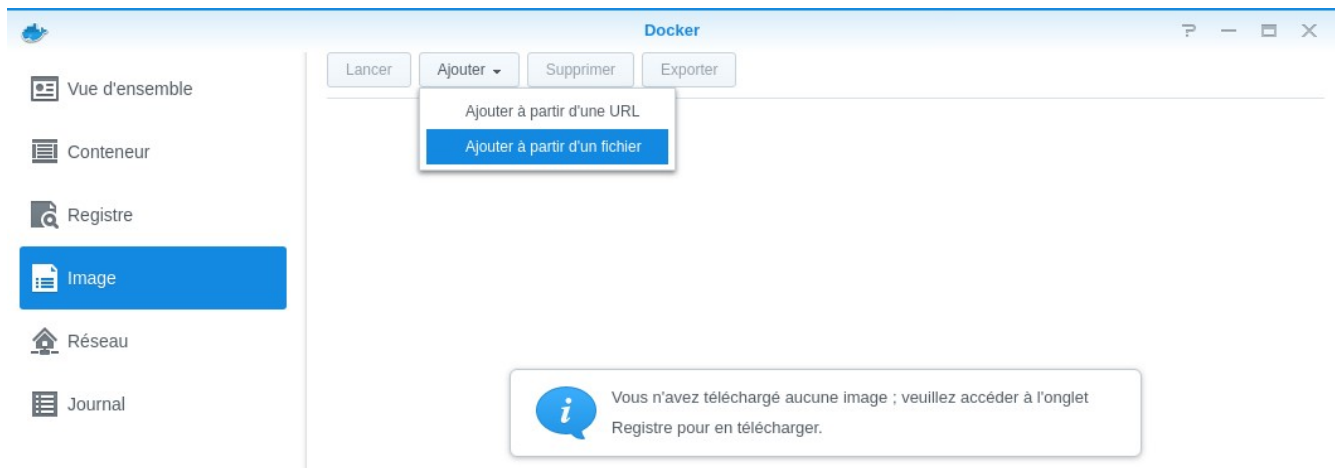
Uncompress the web.zip file with File Station. You should obtain a docker/web folder containing files

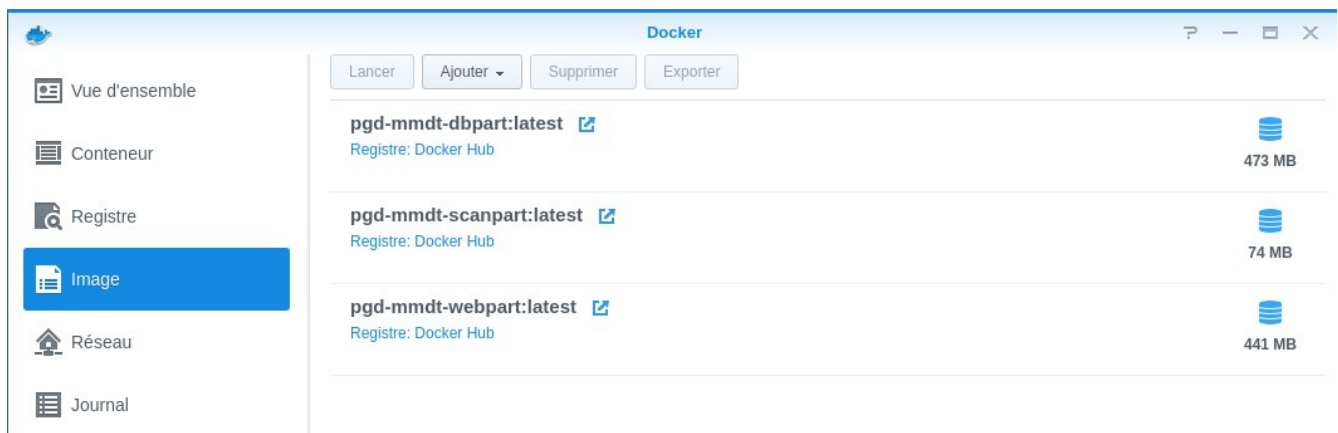


## ***Docker synology***

Open docker app.

In “Image” section click add from file and load the 3 docker images previously uploaded in /docker/docker\_images.



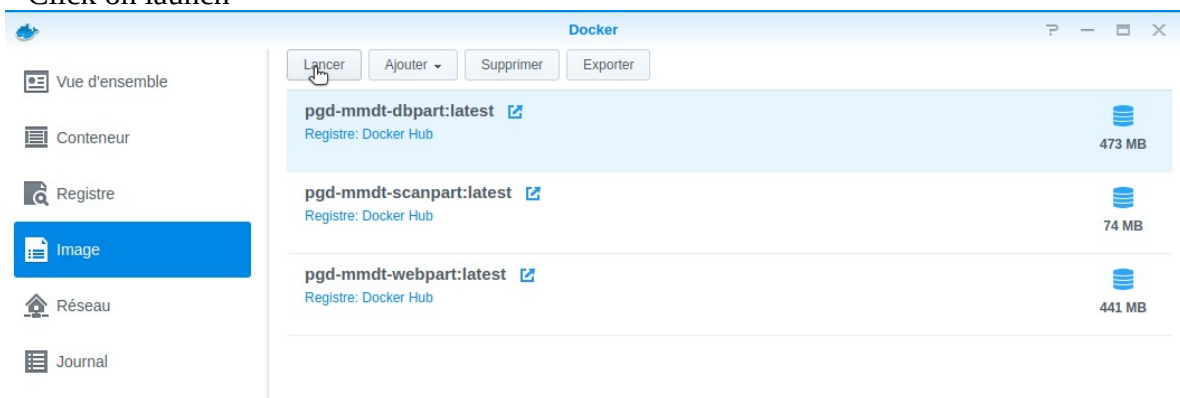


Create containers in following order from docker app in image section

➤ **pgd-mmdt-dbpart**

Select pgd\_mmdt-dppart:latest by clicking it

Click on launch



container name : pgd-mmdt-db

pgd-mmdt-dbpart(latest) - Créer un conteneur

Paramètres généraux

Configurez un nom de conteneur et les paramètres relatifs aux ressources.

Nom du conteneur:

☐ Exécuter le conteneur à l'aide de privilèges élevés

☐ Activer la limitation des ressources

Priorité des processeurs:
 
☐ Bas
 ☒ Moyen
 ☐ Élevé

Limite de la mémoire:
  MB

Paramètres avancés

Suivant

Annuler

Click on advanced parameters

In volume section add 2 volumes with add>folder :

- docker/mongodbfiles /data
- <path to your datas> /pgd\_data

Paramètres avancés		
Paramètres avancés	Volume	Réseau
<div>Ajouter un fichier   Ajouter un dossier   Supprimer</div>		
Fichier/Dossier	Chemin d'accès	<input type="checkbox"/> Lecture seule
PGD_datas	/pgd_data	<input type="checkbox"/>
docker/mongodbfiles	/data	<input type="checkbox"/>

### ➤ pgd-mmdt-scanpart

Select pgd\_mmdt-dscanpart:latest by clicking it

Click on launch

container name : pgd-mmdt-scan

Click on advanced parameters

In volume section add 2 volumes with add>folder :

- <path to your datas> /pgd\_data
- docker/web/js /js

Fichier/Dossier	Chemin d'accès
PGD_datas	/pgd_data
docker/web/js	/js

In link section, click on “+” to add a link to pgd-mmdt-db with alias pgd-mmdt-db

Paramètres avancés	
Paramètres avancés	Volume
<div>+ -</div>	
Nom du conteneur	Alias
pgd-mmdt-db	pgd-mmdt-db

### ➤ pgd-mmdt-webpart

Select pgd\_mmdt-webpart:latest by clicking it

Click on launch

container name : pgd-mmdt-web

Click on advanced parameters

In volume section add 1 volume with add>folder :

- docker/web                    /var/www/html

Paramètres avancés		
Paramètres avancés	Volume	Réseau
<div>Ajouter un fichier   Ajouter un dossier   Supprimer</div>		
Fichier/Dossier	Chemin d'accès	<input type="checkbox"/> Lecture seule
docker/web	/var/www/html	<input type="checkbox"/>

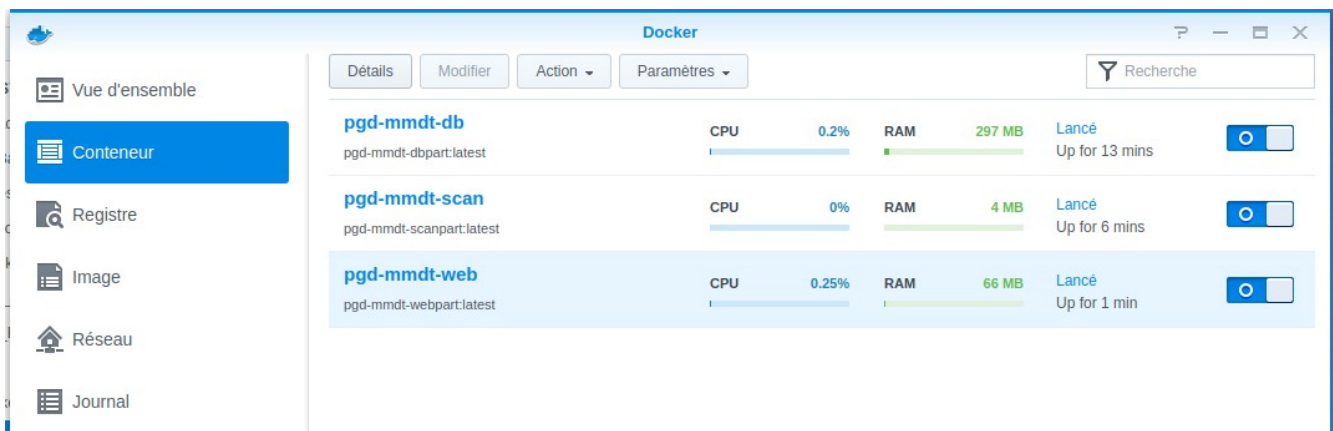
In port section modify default entry with local port on 8888

Paramètres avancés		
Paramètres avancés	Volume	Réseau
<div>+ -</div>		
Port local	Port du conteneur	Type
8888	80	TCP

In links section, click on “+” to add a link to pgd-mmdt-db with alias pgd-mmdt-db

Paramètres avancés	
Paramètres avancés	Volume
<div>+ -</div>	
Nom du conteneur	Alias
pgd-mmdt-db	pgd-mmdt-db

You should see now in docker app in containers section 3 running containers

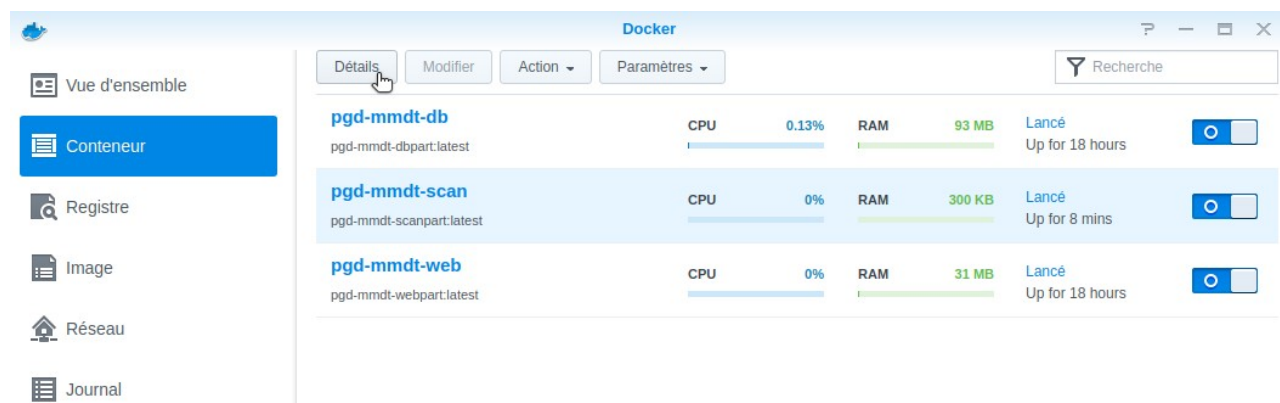


You should be able to access to pgd web app by entering in a web browser the url of your NAS with **http** protocol and followed by **:8888**

### ***Check Scan activation***

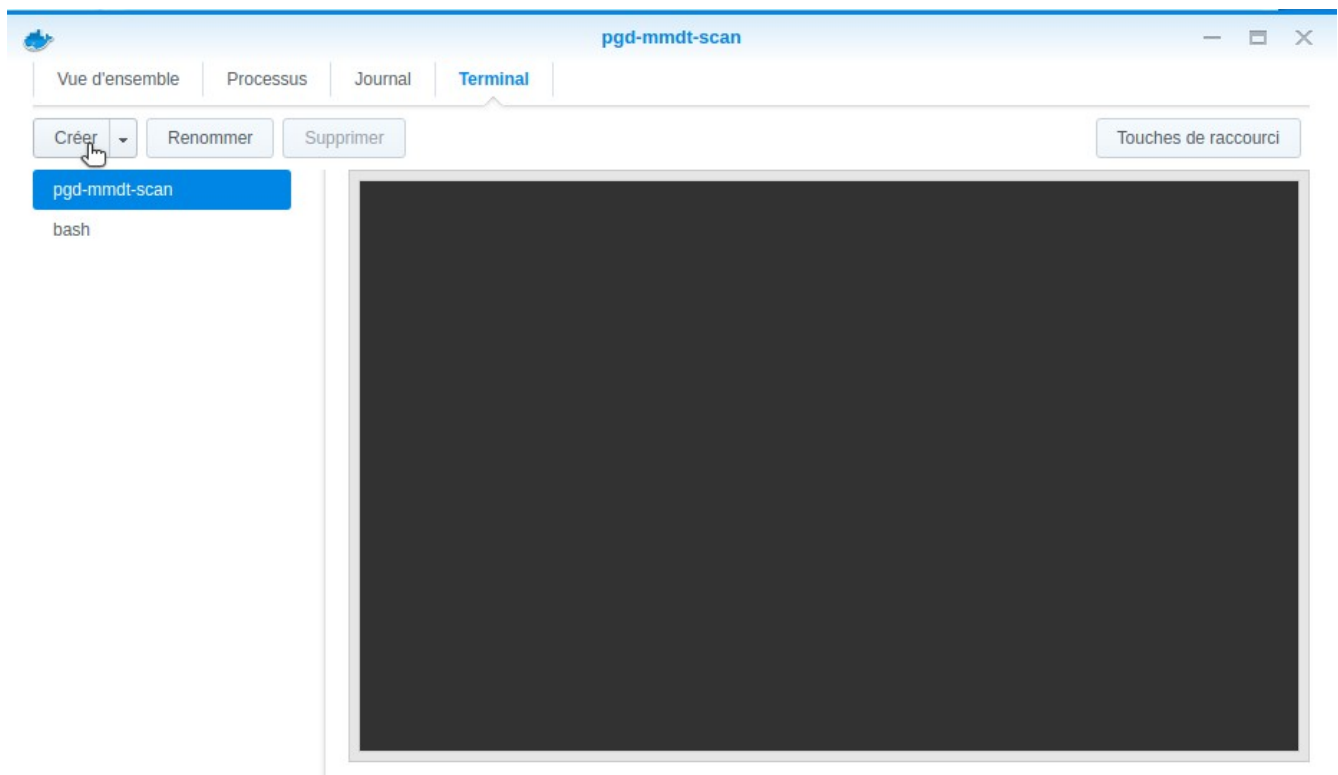
You have to check that automatic scan is activated (seems not to be the case with synology deployment)

In Container section of the docker package, select pgd-mmdt-scan and click Details



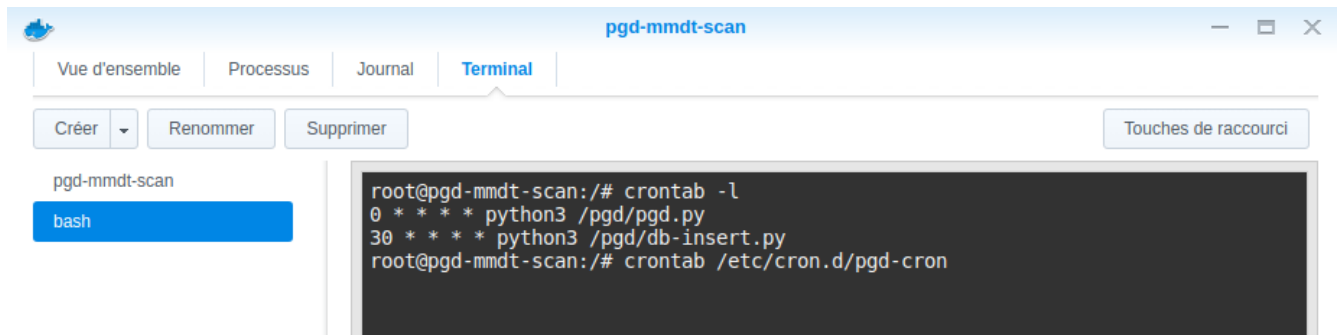
Click on the Terminal section and create to obtain a new bash terminal





launch command `crontab -l` to check if scan is activated (2 lines with python command should appear)

If no lines are displayed, launch command : `crontab /etc/cron.d/pgd-cron`



Then you can delete current bash and close window.