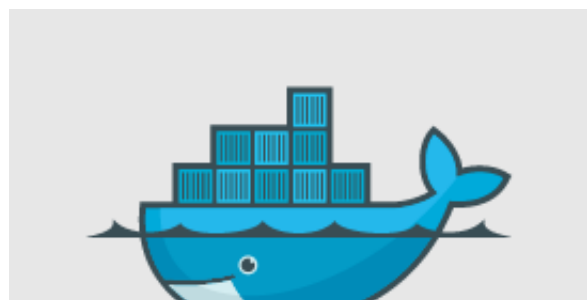


Home (<https://www.assistanz.com>) > Blog (<https://www.assistanz.com/blog/>) > Blog (<https://www.assistanz.com/category/blog/containers/>) > Push And Pull Container Images To Docker Hub

Push and Pull container images to docker h

🕒 April 10, 2017 Posted by: Loges Category: Blog, Containers (<https://www.assistanz.com/category/blog/containers/pull-container-images-to-docker-hub/>)



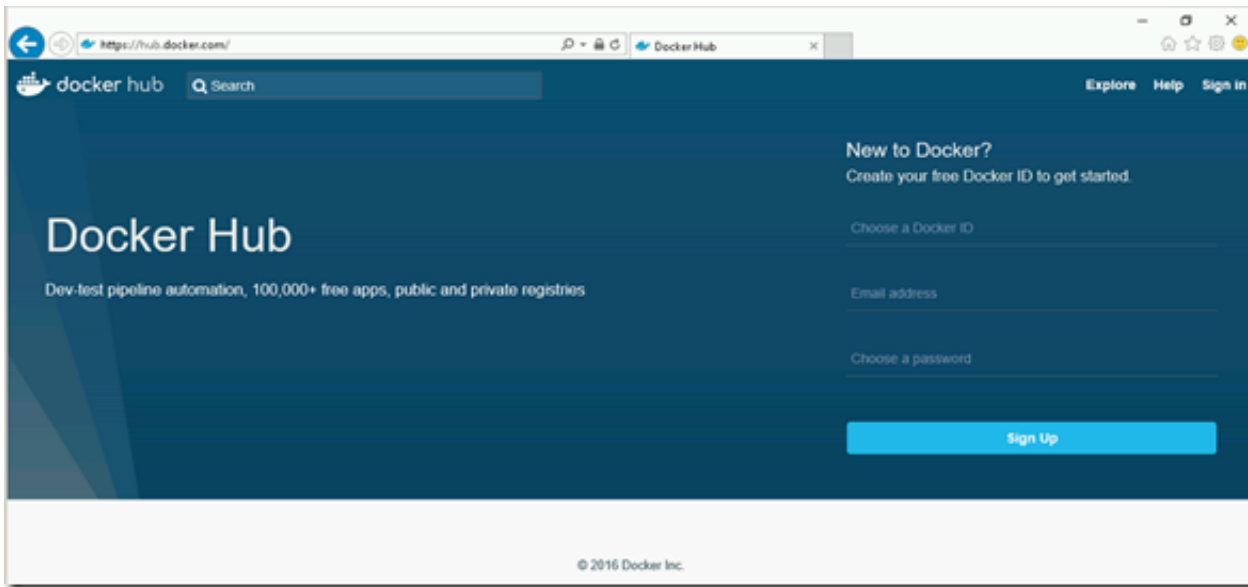
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PUSH AND PULL CONTAINER IMAGES TO DOCKER HUB

In this blog, we will show you how to push and pull container images to docker hub using PowerShell docker

SIGNUP USER WITH DOCKER HUB

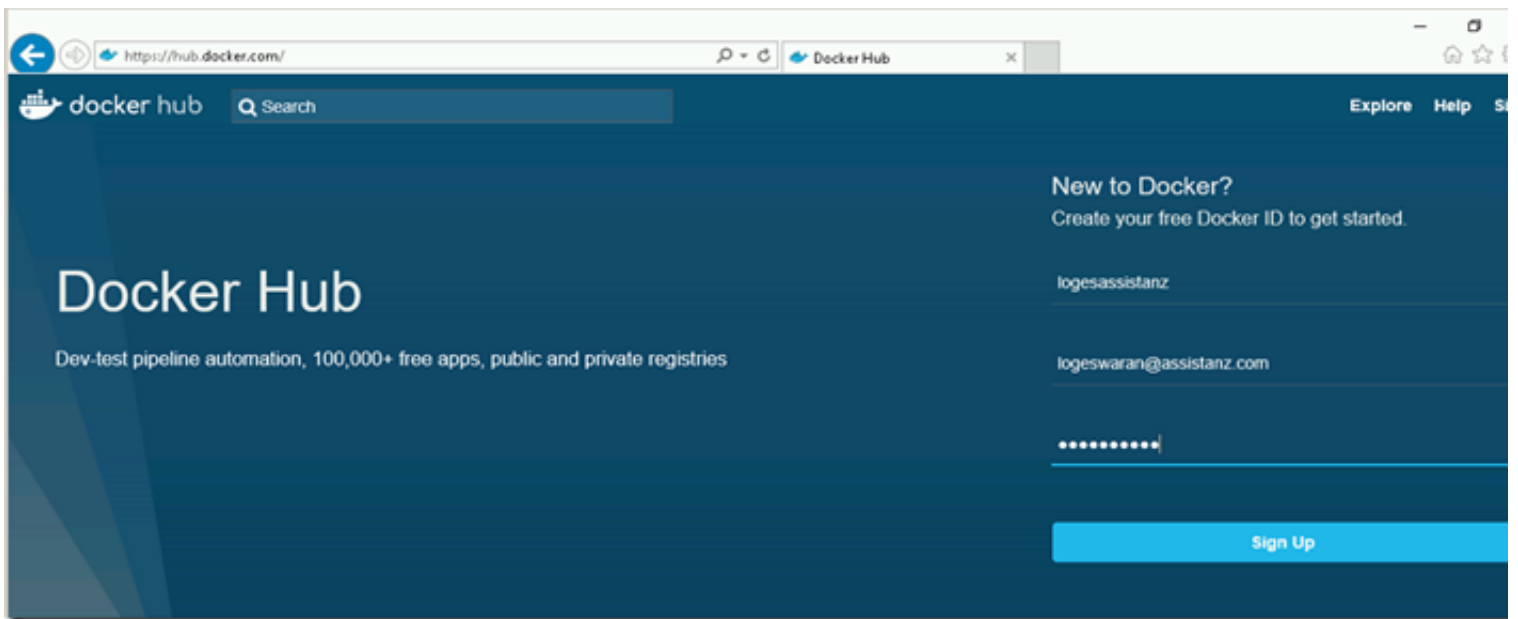
- ◆ First, Go to **hub.docker.com** website.



(<https://www.assi>

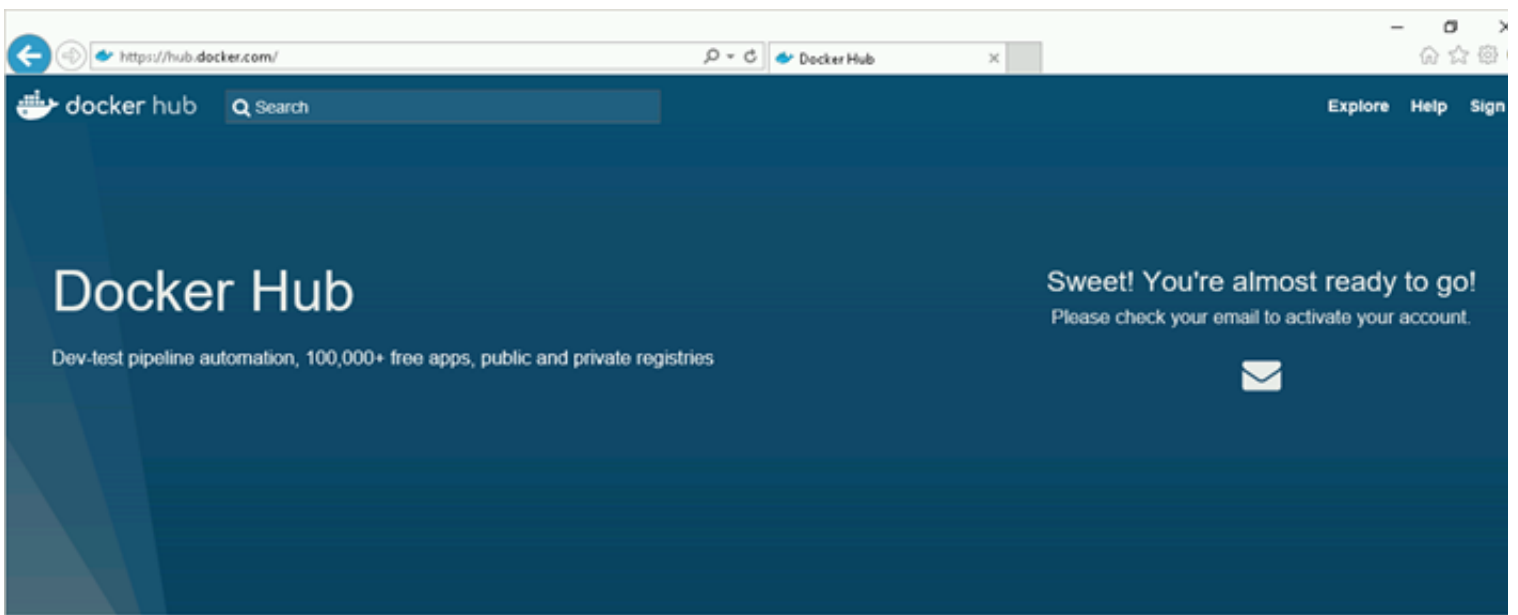
content/uploads/2017/04/image-81.png)

- ◆ Provide dockerID, email address & password to signup with docker hub website.



(<https://www.assistanz.com/wp-content/uploads/2017/04/image-82.png>)

- ◆ Once you click the sign-up button, It shows the below screen.



(<https://www.assistanz.com/wp-content/uploads/2017/04/image-83.png>)

- ◆ We will get the confirmation email to our inbox. We need to click on that link to activate it.

Reply Reply All Forward




Mon 4/10/2017 9:53 AM

no-reply@notify.docker.com

Please confirm email for your Docker ID

To logeswaran@assistanz.com

 If there are problems with how this message is displayed, click here to view it in a web browser.



docker

(<https://www.assistanz.c>

Please confirm your email address

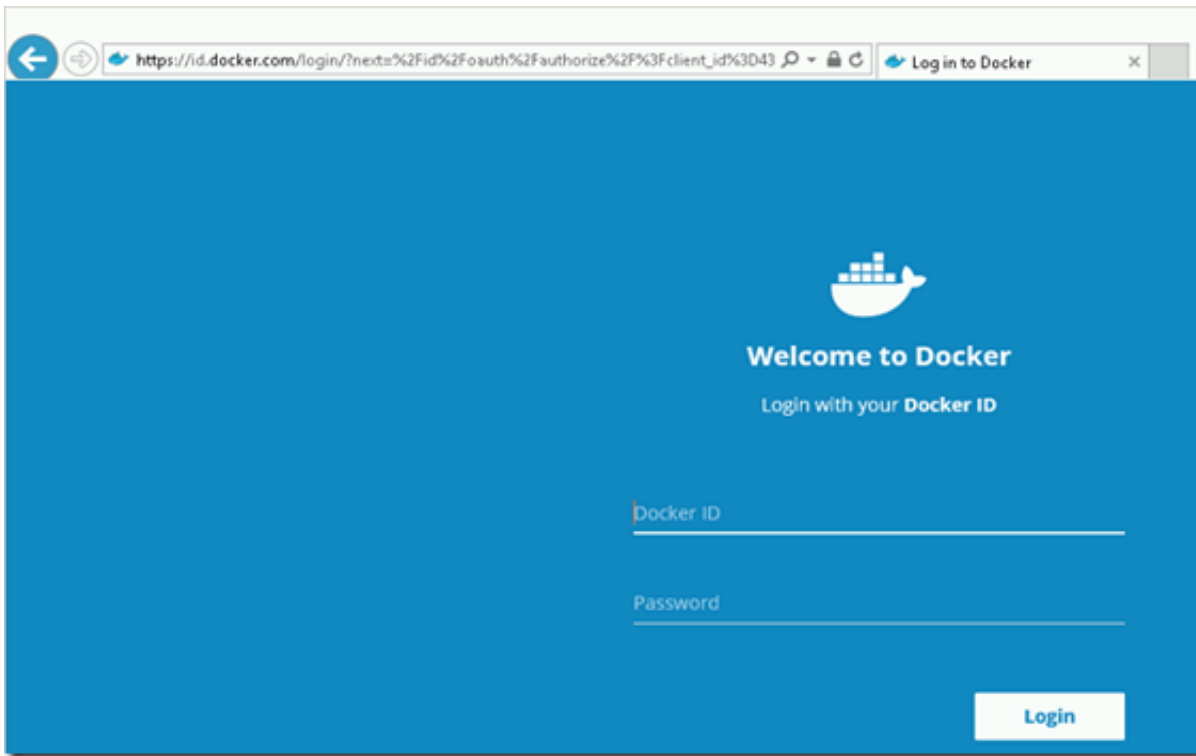
You have created a Docker ID with the username: logesassistanz

[Confirm Your Email](#)

(This link will expire in 2 days.)

content/uploads/2017/04/image-84.png)

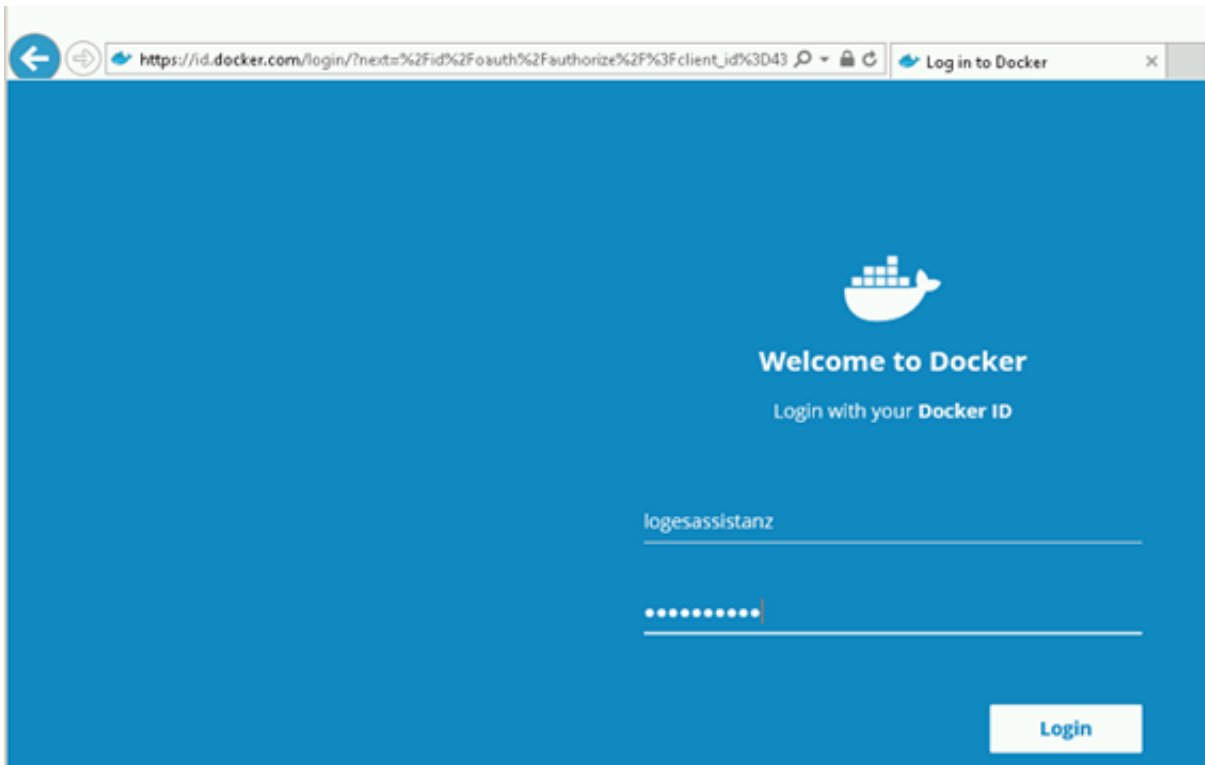
- ◆ Once you click on the activation link, it shows the login page.



(https://www.assistar

content/uploads/2017/04/image-85.png)

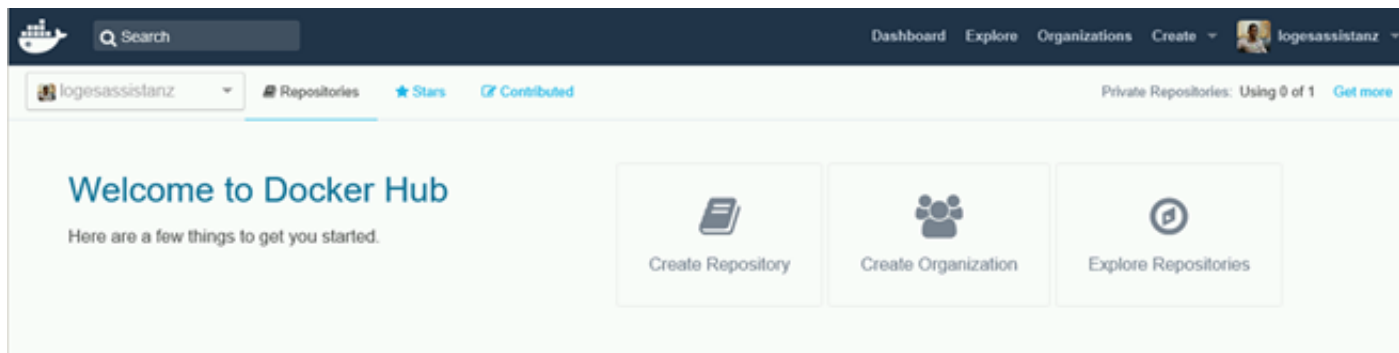
- ◆ Now provide docker ID and password and click login.



(https://www.assista

content/uploads/2017/04/image-86.png)

- Once we logged in, it shows the below screen.



(<https://www.assistanz.com/wp-content/uploads/2017/04/image-87.png>)

RE-TAGGING THE IMAGES

- In this demo, we use **logesassistanz** as username and it will be the namespace and should be included in the in
- Go to PowerShell window and list the images.

```
PS C:\> docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
web	latest	213e670fd6fb	2 days ago	10.4 G
web	v1	cd375f266549	2 days ago	10.4 G
my-nano-image	latest	29ffc86d86c5	3 days ago	1.04 G
microsoft/windowsservercore	latest	b4713e4d8bab	4 weeks ago	10.1 G
microsoft/nanoserver	10.0.14393.953	18a0d32a4b98	4 weeks ago	1 GB
microsoft/nanoserver	latest	18a0d32a4b98	4 weeks ago	1 GB

```
PS C:\>
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-88.png>)

- If we look into the base container OS images they are formatted with the name **Microsoft**.

```
microsoft/nanoserver 10.0.14393.953
microsoft/nanoserver latest
```

(<https://www.assistanz.com/wp->

content/uploads/2017/04/image-89.png)

- ◆ Basically, it contains namespace/name of the repository where images available. Our images are currently tagged to re-tag these images. So execute the below command to re-tag the images.

docker tag web:latest logesassistanz/web:latest

```
PS C:\> docker tag web:latest logesassistanz/web:latest
PS C:\>
```

(<https://www.assista>

content/uploads/2017/04/image-90.png)

```
PS C:\> docker tag web:v1 logesassistanz/web:v1
PS C:\> _
```

(<https://www.assista>

content/uploads/2017/04/image-91.png)

- ◆ Run the **docker images** command to verify the changes.

```
PS C:\> docker images
REPOSITORY          TAG          IMAGE ID          CREATED          SIZE
logesassistanz/web  latest      213e670fd6fb     2 days ago     10.4 GB
web                 latest      213e670fd6fb     2 days ago     10.4 GB
logesassistanz/web  v1         cd375f266549     2 days ago     10.4 GB
web                 v1         cd375f266549     2 days ago     10.4 GB
my-nano-image       latest      29ffc86d86c5     3 days ago     1.04 GB
microsoft/windowservercore latest      b4713e4d8bab     4 weeks ago     10.1 GB
microsoft/nanoserver 10.0.14393.953 18a0d32a4b98     4 weeks ago     1 GB
microsoft/nanoserver latest      18a0d32a4b98     4 weeks ago     1 GB
PS C:\> _
```

(<https://www.assis>

content/uploads/2017/04/image-92.png)

- ◆ Now, untag the old image from the image list.

```
PS C:\> docker rmi web:latest
Untagged: web:latest
PS C:\> docker rmi web:v1
Untagged: web:v1
PS C:\> docker images
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-93.png>)

- ◆ Now everything is set. Images are looking manageable now.

```
PS C:\> docker images
REPOSITORY          TAG          IMAGE ID          CREATED          SIZE
logesassistanz/web  latest      213e670fd6fb     2 days ago     10.4 GB
logesassistanz/web  v1         cd375f266549     2 days ago     10.4 GB
my-nano-image       latest      29ffc86d86c5     3 days ago     1.04 GB
microsoft/windowsservercore latest      b4713e4d8bab     4 weeks ago    10.1 GB
microsoft/nanoserver 10.0.14393.953 18a0d32a4b98     4 weeks ago     1 GB
microsoft/nanoserver latest      18a0d32a4b98     4 weeks ago     1 GB
PS C:\> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-94.png>)

LOGGING INTO DOCKER HUB

- ◆ Login into docker hub from Powershell, execute the below command.

docker login

```
PS C:\> docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://www.docker.com/register/
Username: _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-95.png>)

- ◆ Provide the username/password to login into docker hub. After successful login, it shows **Login succeeded**.

```
PS C:\> docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://www.docker.com/register/
Username: logesassistanz
Password:
Login Succeeded
PS C:\> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-96.png>)

PUSHING IMAGES INTO DOCKER HUB

- ♦ To push the images into docker hub, execute the below command.

docker push logesassistanz/web:latest

```
PS C:\> docker push logesassistanz/web:latest
The push refers to a repository [docker.io/logesassistanz/web]
52430cad8bac: Pushed
538c051e6e8a: Pushed
2bcff8bdb9b6: Pushed
840bf4a5498f: Pushed
87b233cbdc5a: Skipped foreign layer
f358be10862c: Skipped foreign layer
latest: digest: sha256:ba605a1a836e32008157d53a34ece364e51f1610e2ca9e7d8bcaad527012f79b size: 178
PS C:\> _
```

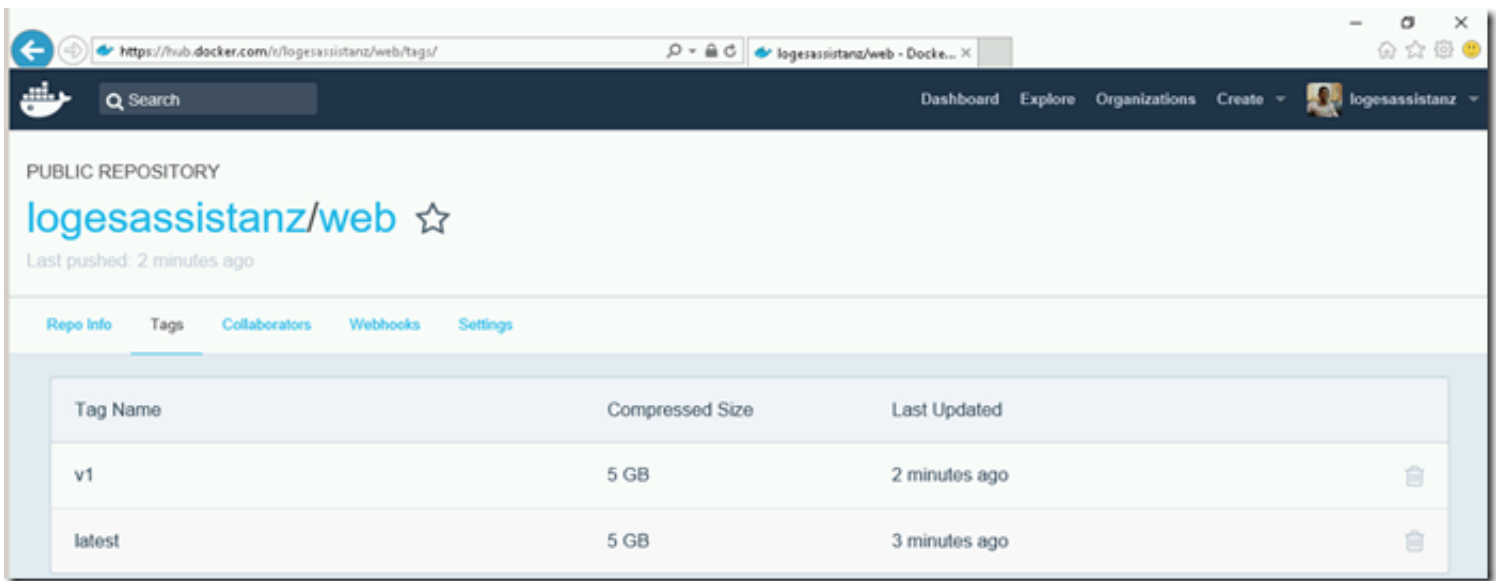
(<https://www.assistanz.com/wp-content/uploads/2017/04/image-97.png>)

- ♦ Now push web v1 version image.

```
PS C:\> docker push logesassistanz/web:v1
The push refers to a repository [docker.io/logesassistanz/web]
7beab6e8ca71: Pushed
15dfade8740d: Pushed
2bcff8bdb9b6: Layer already exists
840bf4a5498f: Layer already exists
87b233cbdc5a: Skipped foreign layer
f358be10862c: Skipped foreign layer
v1: digest: sha256:14f636536c464ff7bd28b5d17d0942af1b28e644a98d8165b690e5b249abb8e7 size: 178
PS C:\> _
```

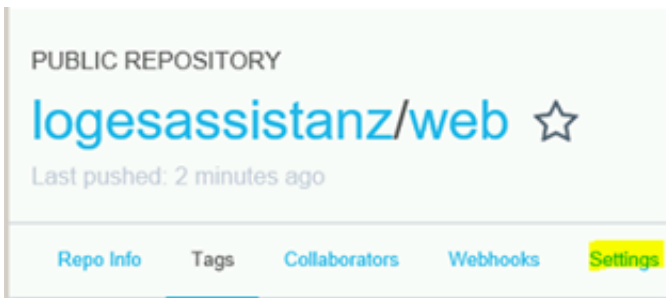
(<https://www.assistanz.com/wp-content/uploads/2017/04/image-98.png>)

- ♦ Now check the docker hub repository and we can able to find our two tags of our images.



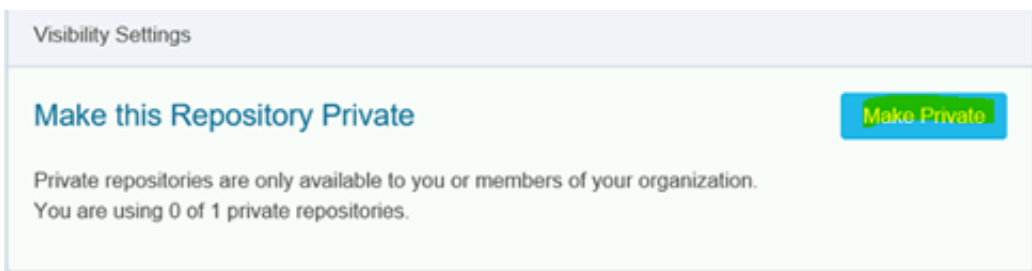
(https://www.assistanz.com/wp-content/uploads/2017/04/image-99.png)

- ◆ To make this repository as private, Click on settings.



(https://www.assistanz.com/wp-content/uploads/2017/04/ir

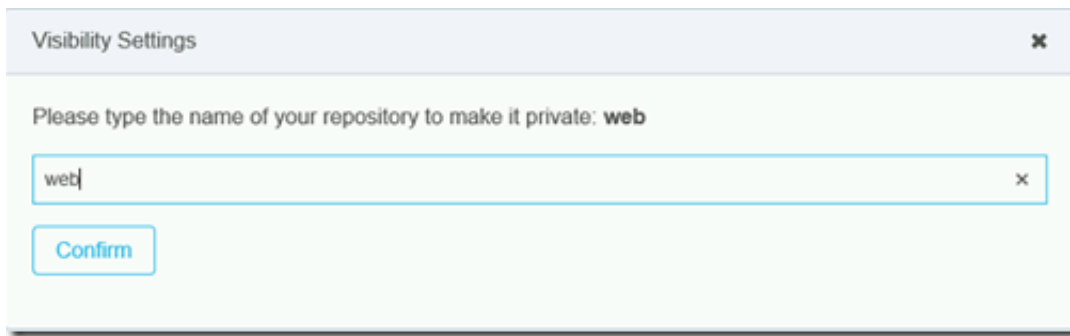
- ◆ Click on **Make Private** button.



(https://www.assistanz.com/wp-

content/uploads/2017/04/image-101.png)

- ◆ Type the word **web** and click confirm.

A screenshot of a 'Visibility Settings' dialog box. The title bar says 'Visibility Settings' with a close button. The main text says 'Please type the name of your repository to make it private: web'. Below this is a text input field containing 'web' and a small 'x' icon to clear it. At the bottom left is a 'Confirm' button.

Visibility Settings

Please type the name of your repository to make it private: **web**

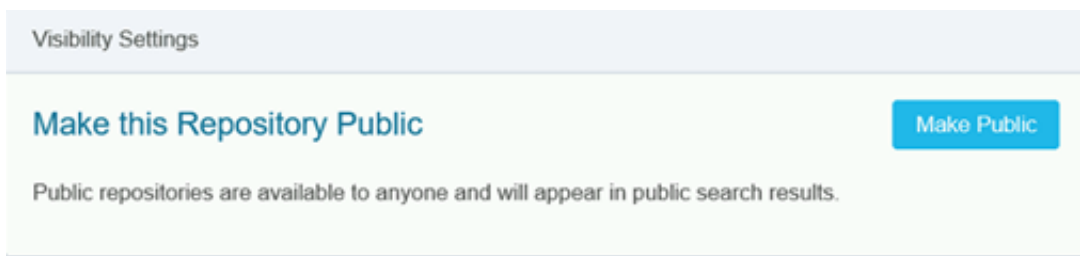
web

Confirm

(<https://www.assistanz.com/w>

content/uploads/2017/04/image-102.png)

- ◆ That's it. This repository is now private.

A screenshot of a 'Make this Repository Public' dialog box. The title bar says 'Visibility Settings'. The main text says 'Make this Repository Public' in blue. Below this is a blue button labeled 'Make Public'. At the bottom, it says 'Public repositories are available to anyone and will appear in public search results.'

Visibility Settings

Make this Repository Public

Make Public

Public repositories are available to anyone and will appear in public search results.

(<https://www.assistanz.com/v>

content/uploads/2017/04/image-103.png)

PULLING CONTAINER IMAGES

- ◆ First, we will remove the existing images from the list using **rmi** command.

```

PS C:\> docker rmi logesassistanz/web:latest
Untagged: logesassistanz/web:latest
Deleted: sha256:213e670fd6f5e5ba1676b0e3a4655f5164314ce32d81a1e396fc9f71a23cc7d
Deleted: sha256:320340370acf141d0e5d95207a645feb720160446ba1312bd87b03d18758b8d7
Deleted: sha256:bce77d8df8c1d93c621f7faf1b7e42cb1d538c7e69f8f266937fc7628a2ba8e9
Deleted: sha256:4025879cf0059d472f294394c9031d520fe0a7c06db4b16d51626743b896bd48
PS C:\> docker rmi logesassistanz/web:v1
Untagged: logesassistanz/web:v1
Deleted: sha256:14f636536c464ff7bd28b5d17d0942af1b28e644a98d8165b690e5b249abb8e7
Deleted: sha256:cd375f266549930b5c8ae456fcb5e5a3257681dd8d8f63530bd21702b04c013
Deleted: sha256:fbce920da27481ca5e872a2228ce63bfbacb43d884aec97be1cd49da0d7c6ac2
Deleted: sha256:68ed95a042d4a6f080cf63a33ce7daac0c3b2ec2cc63873a20d1aa0c1f13eb04
Deleted: sha256:b6f07f6c2ded6e08248515e7c4edabef131882cadfcca2d8d902ca9fc171a041
Deleted: sha256:93b3baced0714c1a54f9ad93656d5ebdcf94bcd39cad5fb1f64ed72be7b7f118
Deleted: sha256:2465abd66f3cfd2c07440a2153b59c9dd2b96853d52c4e78820f9609bf6d99fd
Deleted: sha256:ab47b6b5b2942be226470f83fc26b64cc36950e1ae11cc1ba0b04a1cd202aaa
Deleted: sha256:605d74d4687f86dcfe0f69ec9ff87e5a77e0613ef6c5f85ede2c55ed8cf55b49
PS C:\>

```

(<https://www.ass>

content/uploads/2017/04/image-104.png)

- ♦ Run **docker images** command to verify the image lists.

```

PS C:\> docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
my-nano-image        latest             29ffc86d86c5       3 days ago         1.04 GB
microsoft/windowsservercore latest             b4713e4d8bab       4 weeks ago         10.1 GB
microsoft/nanoserver 10.0.14393.953    18a0d32a4b98       4 weeks ago         1 GB
microsoft/nanoserver latest             18a0d32a4b98       4 weeks ago         1 GB
PS C:\>

```

(<https://www.ass>

content/uploads/2017/04/image-105.png)

- ♦ To pull the images, use the below command.

Syntax : docker pull <namespace name>/<repository name>:<tag>

Example : docker pull logesassistanz/web:v1

```

PS C:\> docker pull logesassistanz/web:v1
v1: Pulling from logesassistanz/web
3889bb8d808b: Already exists
503d87f3196a: Already exists
367978700e0c: Pull complete
739fb384041d: Pull complete
03eeb65a8b4f: Pull complete
493831d0c51c: Pull complete
Digest: sha256:14f636536c464ff7bd28b5d17d0942af1b28e644a98d8165b690e5b249abb8e7
Status: Downloaded newer image for logesassistanz/web:v1
PS C:\>

```

(<https://www.assistan>

content/uploads/2017/04/image-106.png)

```
PS C:\> docker pull logesassistanz/web:latest
latest: Pulling from logesassistanz/web
3889bb8d808b: Already exists
503d87f3196a: Already exists
367978700e0c: Already exists
739fb384041d: Already exists
62e777df000b: Pull complete
7fd114509e61: Pull complete
Digest: sha256:ba605a1a836e32008157d53a34ece364e51f1610e2ca9e7d8bcaad527012f79b
Status: Downloaded newer image for logesassistanz/web:latest
PS C:\>
```

([https://www.assistar](https://www.assistar.com/wp-content/uploads/2017/04/image-107.png)

content/uploads/2017/04/image-107.png)

- ♦ The process completed successfully. Type **docker images** command to verify it.

```
PS C:\> docker images
REPOSITORY          TAG          IMAGE ID          CREATED          SIZE
logesassistanz/web   latest       213e670fd6fb     2 days ago      10.4 GB
logesassistanz/web   v1          cd375f266549     2 days ago      10.4 GB
my-nano-image        latest       29ffc86d86c5     3 days ago      1.04 GB
microsoft/windowsservercore latest       b4713e4d8bab     4 weeks ago     10.1 GB
microsoft/nanoserver 10.0.14393.953 18a0d32a4b98     4 weeks ago     1 GB
microsoft/nanoserver latest       18a0d32a4b98     4 weeks ago     1 GB
PS C:\>
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-108.png>)

VIDEO