



1 Check Docker Installation

Terminal

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\banti> docker --version
Docker version 29.2.1, build a5c7197
PS C:\Users\banti>
```

2 Working with Images

Terminal

Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

```
PS C:\Users\banti> docker --version
Docker version 29.2.1, build a5c7197
PS C:\Users\banti> docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
Digest: sha256:341bf0f3ce6c5277d6002cf6e1fb0319fa4252add24ab6a0e262e0056d313208
Status: Image is up to date for nginx:latest
docker.io/library/nginx:latest
PS C:\Users\banti>
```

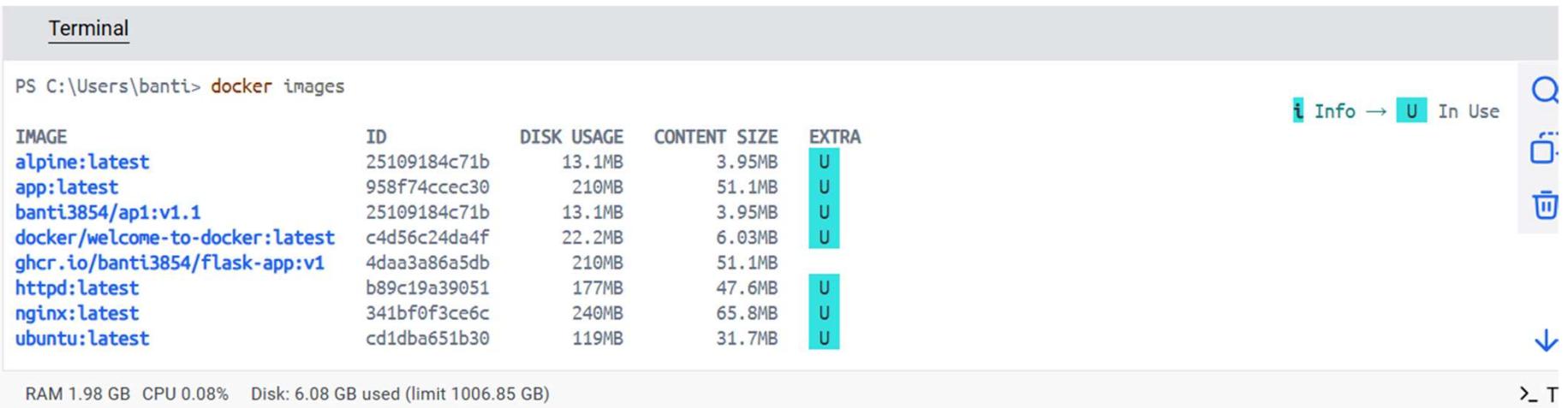
List downloaded images

Terminal

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

IMAGE	ID	DISK USAGE	CONTENT SIZE	EXTRA
alpine:latest	25109184c71b	13.1MB	3.95MB	U
app:latest	958f74cccec30	210MB	51.1MB	U
banti3854/ap1:v1.1	25109184c71b	13.1MB	3.95MB	U
docker/welcome-to-docker:latest	c4d56c24da4f	22.2MB	6.03MB	U
ghcr.io/banti3854/flask-app:v1	4daa3a86a5db	210MB	51.1MB	
httpd:latest	b89c19a39051	177MB	47.6MB	U
nginx:latest	341bf0f3ce6c	240MB	65.8MB	U
ubuntu:latest	cd1dba651b30	119MB	31.7MB	U

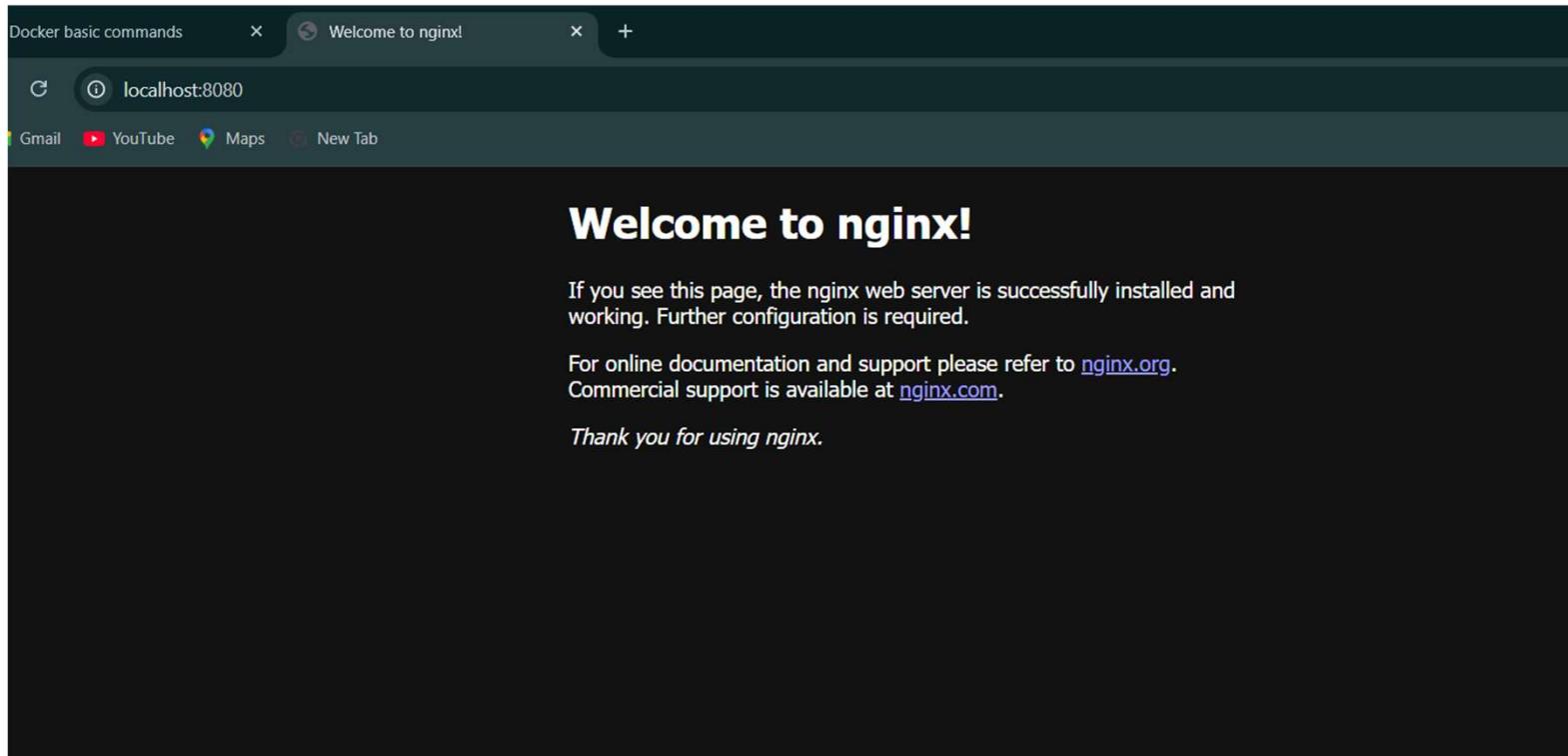
RAM 1.98 GB CPU 0.08% Disk: 6.08 GB used (limit 1006.85 GB)



3

Working with Containers

```
2026/02/24 05:59:35 [notice] 1#1: worker process 31 exited with code 0
2026/02/24 05:59:35 [notice] 1#1: signal 29 (SIGIO) received
2026/02/24 05:59:35 [notice] 1#1: signal 17 (SIGCHLD) received from 38
2026/02/24 05:59:35 [notice] 1#1: worker process 30 exited with code 0
2026/02/24 05:59:35 [notice] 1#1: worker process 33 exited with code 0
2026/02/24 05:59:35 [notice] 1#1: worker process 38 exited with code 0
2026/02/24 05:59:35 [notice] 1#1: signal 29 (SIGIO) received
2026/02/24 05:59:35 [notice] 1#1: signal 17 (SIGCHLD) received from 37
2026/02/24 05:59:35 [notice] 1#1: worker process 37 exited with code 0
2026/02/24 05:59:35 [notice] 1#1: worker process 40 exited with code 0
2026/02/24 05:59:35 [notice] 1#1: signal 29 (SIGIO) received
2026/02/24 05:59:35 [notice] 1#1: signal 17 (SIGCHLD) received from 40
2026/02/24 05:59:35 [notice] 1#1: signal 17 (SIGCHLD) received from 29
2026/02/24 05:59:35 [notice] 1#1: worker process 29 exited with code 0
2026/02/24 05:59:35 [notice] 1#1: worker process 36 exited with code 0
2026/02/24 05:59:35 [notice] 1#1: signal 29 (SIGIO) received
2026/02/24 05:59:35 [notice] 1#1: signal 17 (SIGCHLD) received from 35
2026/02/24 05:59:35 [notice] 1#1: worker process 35 exited with code 0
2026/02/24 05:59:35 [notice] 1#1: exit
PS C:\Users\banti> docker run -d -p 8080:80 nginx
4dba02d915fb2623cab29ac0b90473f83339bec8e285640b40c7dcfedcc7257
PS C:\Users\banti> █
```



◆ List running containers

```
2026/02/24 05:59:35 [notice] 1#1: worker process 30 exited with code 0
2026/02/24 05:59:35 [notice] 1#1: worker process 33 exited with code 0
2026/02/24 05:59:35 [notice] 1#1: worker process 38 exited with code 0
2026/02/24 05:59:35 [notice] 1#1: signal 29 (SIGIO) received
2026/02/24 05:59:35 [notice] 1#1: signal 17 (SIGCHLD) received from 37
2026/02/24 05:59:35 [notice] 1#1: worker process 37 exited with code 0
2026/02/24 05:59:35 [notice] 1#1: worker process 40 exited with code 0
2026/02/24 05:59:35 [notice] 1#1: signal 29 (SIGIO) received
2026/02/24 05:59:35 [notice] 1#1: signal 17 (SIGCHLD) received from 40
2026/02/24 05:59:35 [notice] 1#1: signal 17 (SIGCHLD) received from 29
2026/02/24 05:59:35 [notice] 1#1: worker process 29 exited with code 0
2026/02/24 05:59:35 [notice] 1#1: worker process 36 exited with code 0
2026/02/24 05:59:35 [notice] 1#1: signal 29 (SIGIO) received
2026/02/24 05:59:35 [notice] 1#1: signal 17 (SIGCHLD) received from 35
2026/02/24 05:59:35 [notice] 1#1: worker process 35 exited with code 0
2026/02/24 05:59:35 [notice] 1#1: exit
PS C:\Users\banti> docker run -d -p 8080:80 nginx
4dba02d915fb2623cabb29ac0b90473f83339bec8e285640b40c7dcfedcc7257
PS C:\Users\banti> docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
4dba02d915fb nginx "/docker-entrypoint...." 2 minutes ago Up 2 minutes 0.0.0.0:8080->80/tcp, [::]:8080->80/tcp gracious_easley
PS C:\Users\banti>
```

◆ List all containers (including stopped)

```
PS C:\Users\banti> docker ps -a
```

CONTAINER ID	IMAGE NAMES	COMMAND	CREATED	STATUS	PORTS
4dba02d915fb	nginx	"/docker-entrypoint..."	3 minutes ago	Up 3 minutes	0.0.0.0:8080->80/tcp, [::]:
8080->80/tcp	gracious_easley				
542a4b11a755	nginx	"/docker-entrypoint..."	4 minutes ago	Exited (0) 3 minutes ago	
224bfed9bbc5	compassionate_solomon				
224bfed9bbc5	nginx	"/docker-entrypoint..."	3 days ago	Exited (0) 3 days ago	
224bfed9bbc5	eloquent_mclaren				
4f00d4a71ca9	ubuntu	"bash"	3 days ago	Exited (0) 3 days ago	
4f00d4a71ca9	romantic_euclid				
0aada172ee4e	httpd	"env"	3 days ago	Exited (0) 3 days ago	
0aada172ee4e	angry_dhawan				
b1f25cc79621	httpd	"echo Hello World!"	3 days ago	Exited (0) 3 days ago	
b1f25cc79621	my-container				
dc5d01f08b63	app	"python app.py"	5 days ago	Exited (0) 5 days ago	
dc5d01f08b63	xenodochial_gauss				

- ◆ Stop a container

```
welcome-to-docker
PS C:\Users\banti> docker stop container_id
Error response from daemon: No such container: container_id
PS C:\Users\banti> docker stop 4dba02d915fb
4dba02d915fb
PS C:\Users\banti> █
```

- ◆ Start a stopped container

```
welcome-to-docker
PS C:\Users\banti> docker stop container_id
Error response from daemon: No such container: container_id
PS C:\Users\banti> docker stop 4dba02d915fb
4dba02d915fb
PS C:\Users\banti> docker start 4dba02d915fb
4dba02d915fb
PS C:\Users\banti>
```

Docker 1.13.0-rc CPU 0.00% - CPU 0.00% - GPU 0.00% of GPU

◆ Remove a container

```
welcome-to-docker
> C:\Users\banti> docker stop container_id
error response from daemon: No such container: container_id
> C:\Users\banti> docker stop 4dba02d915fb
4dba02d915fb
> C:\Users\banti> docker start 4dba02d915fb
4dba02d915fb
> C:\Users\banti> docker rm 4dba02d915fb
error response from daemon: cannot remove container "4dba02d915fb": container is running: stop the container before removing or force remove
> C:\Users\banti>
```

Clean Up :Remove all stopped containers:

Terminal

```
PS C:\Users\banti> docker container prune
WARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] y
Deleted Containers:
542a4b11a755650f5558b1e8f38b8968dbe9918e9c91658b43f05456a715cdAA
224bfed9bbc569f702dfdf95723e067832fc2f5a4a5dee0c061a5df41154a77
4f00d4a71ca9cf055dafa7ae4a81c019c1b8458c1e95196117822c0fa42c5840
0aada172ee4e58f41d68034cb71971d0adef298194608b930edf6a2ae944d8c0
b1f25cc7962135c04396d31b7e534f947104dfa756d62bd9643779751fe3b815
dc5d01f08b63ffd282a6987edb6e92c01a3761cdd7404aa170ab2a4ce0cde32e
71d1a05d0bf0aaf77b7f54273cea154a80bfa931d48b183da70e28b915543697
cf408134a4c218bcd8c7d13504da1eee7f02b9f8677125c96f50f5af2101
257df787094587b7c2794a21e46cc219903ec396ee57c0235c07d2c3f2643adc
f094e41bb78cadd715ec6aa87cf225b489c8619751efb8b3c8d75eab625e8bdb
81d6a174aba75c0dd53a8dee98f074ec8fc87743ae8bde579288bf82b64c7ee9
f7c39f324324e83febff4ef09cf3990838a5b831c547e98dcac48686c3d0a9c8
42bf8b65aac80685256fde73d798657a06a7df4592b224ec38231f083e396139
788a8dd0a091b28528ebb15627d14d4e310154f911185da185f24e549a183962
93f4673d1b96420147e232aaa39959b6baae224aa3250ba0e2c4111eae2e53bc

Total reclaimed space: 1.145GB
PS C:\Users\banti>
```

Remove unused images:

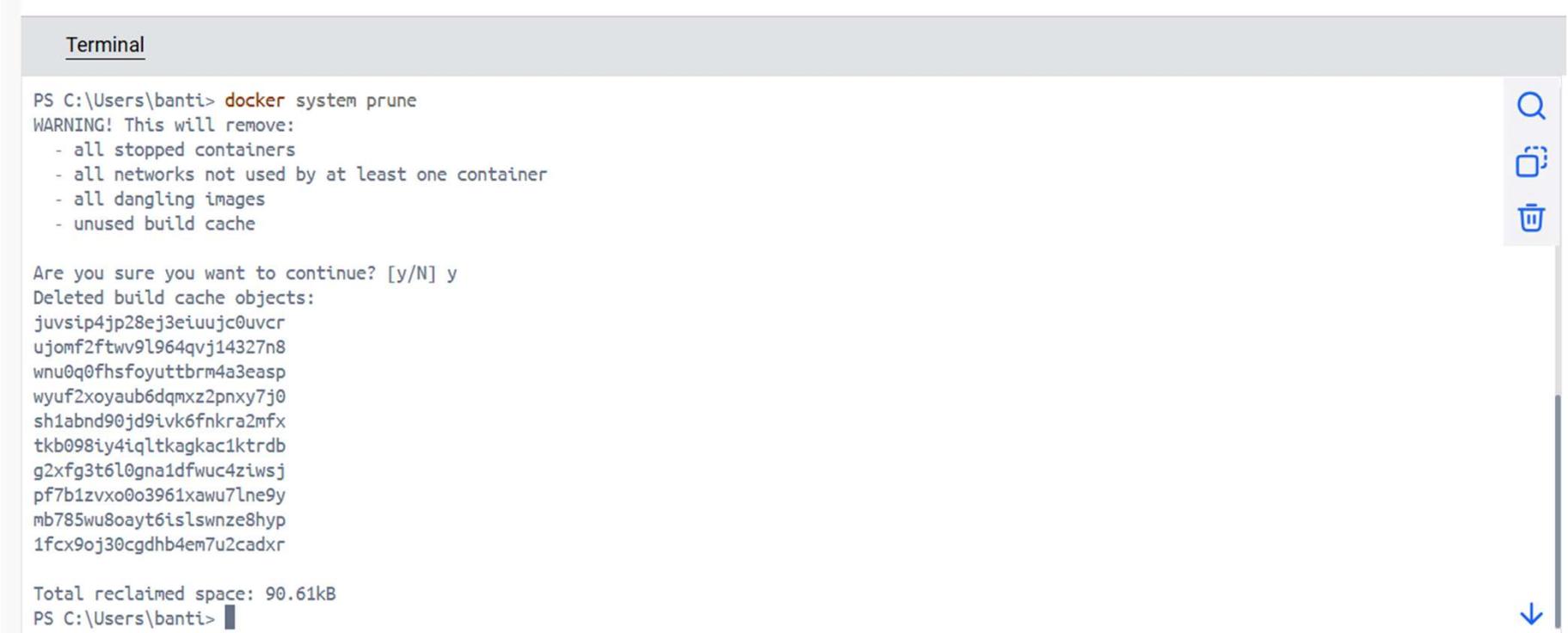
```
C:\Users\banti> docker image prune
WARNING! This will remove all dangling images.
Are you sure you want to continue? [y/N] y
Deleted Images:
  Untagged: sha256:b8b0080b6dfa7dc50d0e46064739d4563dcee2ac14a02f646b98d33a136f7f40
  Deleted: sha256:b8b0080b6dfa7dc50d0e46064739d4563dcee2ac14a02f646b98d33a136f7f40
```

Total reclaimed space: 6.27MB

```
C:\Users\banti>
```

RAM 0.00 GB CPU 0.00% Disk: 5.02 GB used (limit 1006.85 GB)

Remove everything unused:



The screenshot shows a terminal window with the title "Terminal". The command "PS C:\Users\banti> docker system prune" is entered, followed by a warning message about removing stopped containers, networks, dangling images, and build cache. The user is prompted with "Are you sure you want to continue? [y/N] y". The command then lists deleted build cache objects, which are long random strings of lowercase letters and numbers. Finally, it shows the total reclaimed space as 90.61kB.

```
PS C:\Users\banti> docker system prune
WARNING! This will remove:
- all stopped containers
- all networks not used by at least one container
- all dangling images
- unused build cache

Are you sure you want to continue? [y/N] y
Deleted build cache objects:
juvsip4jp28ej3eiuujc0uvcr
ujomf2ftwv9l964qvj14327n8
wnu0q0fhfsfoytbrm4a3easp
wyuf2xoyaub6dqmxz2pnxy7j0
sh1abnd90jd9ivk6fnkra2mfx
tkb098iy4iqltkagkac1ktrdb
g2xfg3t6l0gna1dfwuc4ziwsj
pf7b1zvxo0o3961xawu7lne9y
mb785wu8oayt6is1swnze8hyp
1fcx9oj30cgdhb4em7u2cadxr

Total reclaimed space: 90.61kB
PS C:\Users\banti>
```