DOCKER PROJECT

JOB 1

I'll be using a synology nas

JOB 2

Container Manager

- Overview
- Project
- Container
- Image   ①
- Registry
- Network
- Log

Run | Details | Delete | Remove Unused Images | Action ▾   🔍 Search

Status	Name	Tag	Size	Time Created	
○	wazuh/wazuh-certs-gene...	0.0.2	132 MB	2024-03-15 15:35:49	
●	wazuh/wazuh-dashboard	4.9.2	1.03 GB	2024-11-04 20:00:50	
●	wazuh/wazuh-indexer	4.9.2	2.22 GB	2024-11-04 19:58:21	
●	wazuh/wazuh-manager	4.9.2	1.21 GB	2024-11-04 19:58:19	
↓	hello-world	latest (Downloading...0%)			

5 items   ⟳

Container Manager

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Download | Settings   🔍 hello-world ⊗

hello-world ✔ ⭐ 2359
Hello World! (an example of minimal Dockerization)   ↗

tutum/hello-world ⭐ 90
Image to test docker deployments. Has Apache with a 'Hello World' page listening in port 80.   ↗

crccheck/hello-world ⭐ 25
Hello World web server in under 2.5 MB   ↗

dockercloud/hello-world ⭐ 20
Hello World!   ↗

armhf/hello-world ⭐ 7
Hello World! (an example of minimal Dockerization)   ↗

rancher/hello-world ⭐ 6
This container image is no longer maintained and its use is discouraged.   ↗

arm64v8/hello-world ⭐ 3
Hello World! (an example of minimal Dockerization)   ↗

arm32v7/hello-world ⭐ 3
Hello World! (an example of minimal Dockerization)   ↗

winamd64/hello-world ⭐ 2
Hello World! (an example of minimal Dockerization)   ↗

|<   «   **1**   2   3   »   >| 10000 items   ⟳

Container Manager

hello-world:latest - Create Container

General Settings

Image: hello-world:latest

Container Name: * hello-world-cybersup

☐ Enable resource limitation

CPU Priority: ○ Low ● Med ○ High

Memory Limit: 4096 MB

☐ Enable auto-restart ⓘ

Next

Container Manager

| Create | Details | Action ▾ |

Status	Name	Image	Project	Up Time	A...
●	hello-world-cybersup	hello-world:latest	-	-	
●	single-node-wazuh.dashb...	wazuh/wazuh-dashboard:...	-	Up for 17 hours	
●	single-node-wazuh.manag...	wazuh/wazuh-manager:4....	-	Up for 17 hours	
●	single-node-wazuh.indexe...	wazuh/wazuh-indexer:4.9.2	-	Up for 17 hours	

4 items

Overview
Project
Container
Image
Registry
Network
Log

JOB 3

```
Laurob_admin@SYN0L0GY:/volume1/docker/cybersup$ mkdir job-3.hello-world
Laurob_admin@SYN0L0GY:/volume1/docker/cybersup$ cd job-3.hello-world/
Laurob_admin@SYN0L0GY:/volume1/docker/cybersup/job-3.hello-world$ touch dockerfile
Laurob_admin@SYN0L0GY:/volume1/docker/cybersup/job-3.hello-world$ vi dockerfile
```

```
FROM debian:latest
RUN echo "Hello, World!"
```

```
Laurob_admin@SYN0L0GY:/volume1/docker/cybersup/job-3.hello-world$ sudo docker build -t job-3.hello-world .
Password:
Sending build context to Docker daemon  2.048kB
Step 1/2 : FROM debian:latest
latest: Pulling from library/debian
fdf894e782a2: Pull complete
Digest: sha256:17122fe3d66916e55c0cbd5bbf54bb3f87b3582f4d86a755a0fd3498d360f91b
Status: Downloaded newer image for debian:latest
 ---> ff869c3288a4
Step 2/2 : RUN echo "Hello, World!"
 ---> Running in 44042cd5db3a
Hello, World!
Removing intermediate container 44042cd5db3a
 ---> 1d91064dede1
Successfully built 1d91064dede1
Successfully tagged job-3.hello-world:latest
```

```
Laurob_admin@SYN0L0GY:/volume1/docker/cybersup/job-3.hello-world$ sudo docker run job-3.hello-world
```

```
Laurob_admin@SYN0L0GY:/volume1/docker/cybersup/job-3.hello-world$ sudo docker ps -a
CONTAINER ID   IMAGE               COMMAND        CREATED              STATUS                      PORTS        NAMES
0952590a6c1a   job-3.hello-world   "bash"         About a minute ago   Exited (0) About a minute ago            beautiful_kepler
```

JOB 4

```
Laurob_admin@SYN0L0GY:/volume1/docker/cybersup$ mkdir job-4.ssh-server
Laurob_admin@SYN0L0GY:/volume1/docker/cybersup$ cd job-4.ssh-server/
Laurob_admin@SYN0L0GY:/volume1/docker/cybersup/job-4.ssh-server$ cat <<EOF > Dockerfile
> FROM debian:latest
> RUN apt-get update && \\
>     apt-get install -y openssh-server && \\
>     echo 'root:root123' | chpasswd && \\
>     mkdir /var/run/sshd && \\
>     sed -i 's/#PermitRootLogin prohibit-password/PermitRootLogin yes/' /etc/ssh/sshd_config && \\
>     sed -i 's/#PasswordAuthentication yes/PasswordAuthentication yes/' /etc/ssh/sshd_config
> EXPOSE 2222
> CMD ["/usr/sbin/sshd", "-D"]
> EOF
Laurob_admin@SYN0L0GY:/volume1/docker/cybersup/job-4.ssh-server$ cat Dockerfile
FROM debian:latest
RUN apt-get update && \
    apt-get install -y openssh-server && \
    echo 'root:root123' | chpasswd && \
    mkdir /var/run/sshd && \
    sed -i 's/#PermitRootLogin prohibit-password/PermitRootLogin yes/' /etc/ssh/sshd_config && \
    sed -i 's/#PasswordAuthentication yes/PasswordAuthentication yes/' /etc/ssh/sshd_config
EXPOSE 2222
CMD ["/usr/sbin/sshd", "-D"]
Laurob_admin@SYN0L0GY:/volume1/docker/cybersup/job-4.ssh-server$
```

```
Laurob_admin@SYN0L0GY:/volume1/docker/cybersup/job-4.ssh-server$ sudo docker build -t job-4.ssh-server .
Sending build context to Docker daemon  2.048kB
Step 1/4 : FROM debian:latest
 ---> ff869c3288a4
Step 2/4 : RUN apt-get update &&    apt-get install -y openssh-server &&    echo 'root:root123' | chpasswd &&    mkdir /var/r
un/sshd &&    sed -i 's/#PermitRootLogin prohibit-password/PermitRootLogin yes/' /etc/ssh/sshd_config &&    sed -i 's/#Passwor
dAuthentication yes/PasswordAuthentication yes/' /etc/ssh/sshd_config
 ---> Running in ef4e9b857023
Get:1 http://deb.debian.org/debian bookworm InRelease [151 kB]
```

```
 ---> Running in 383ecce4d706
Removing intermediate container 383ecce4d706
 ---> db5eaf5de64c
Successfully built db5eaf5de64c
Successfully tagged job-4.ssh-server:latest
Laurob_admin@SYN0L0GY:/volume1/docker/cybersup/job-4.ssh-server$ sudo docker run -d -p 2222:22 job-4.ssh-server
fb285a6441830804b408e4a5e1509c391677be8b4d034a30c48f3d7bb4fde8ee
```

```
Laurob_admin@SYN0L0GY:/volume1/docker/cybersup/job-4.ssh-server$ ssh root@localhost -p 2222
The authenticity of host '[localhost]:2222 ([127.0.0.1]:2222)' can't be established.
ECDSA key fingerprint is SHA256:0u0NxyGwPCs7lKJgFWC9QS4dBpZz5Cg1Pfzhpht6i4c.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '[localhost]:2222' (ECDSA) to the list of known hosts.
root@localhost's password:
Linux fb285a644183 4.4.302+ #72806 SMP Thu Sep 5 13:41:01 CST 2024 x86_64


The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.


Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
root@fb285a644183:~#
```

JOB 5

```
d() {
    docker "$@"
}
dps() {
    docker ps "$@"
}
dpsa() {
    docker ps -a "$@"
}
di() {
    docker images "$@"
}
db() {
    docker build "$@"
}
dr() {
    docker run "$@"
}
drm() {
    docker rm "$@"
}
drmi() {
    docker rmi "$@"
}
dexec() {
    docker exec "$@"
}
dstart() {
    docker start "$@"
}
dstop() {
    docker stop "$@"
}
dlogs() {
    docker logs "$@"
}
dlogsf() {
    docker logs -f "$@"
}
dcp() {
    docker cp "$@"
}
dnet() {
    docker network "$@"
}
dvol() {
    docker volume "$@"
}
dcom() {
    docker-compose "$@"
}

~
```