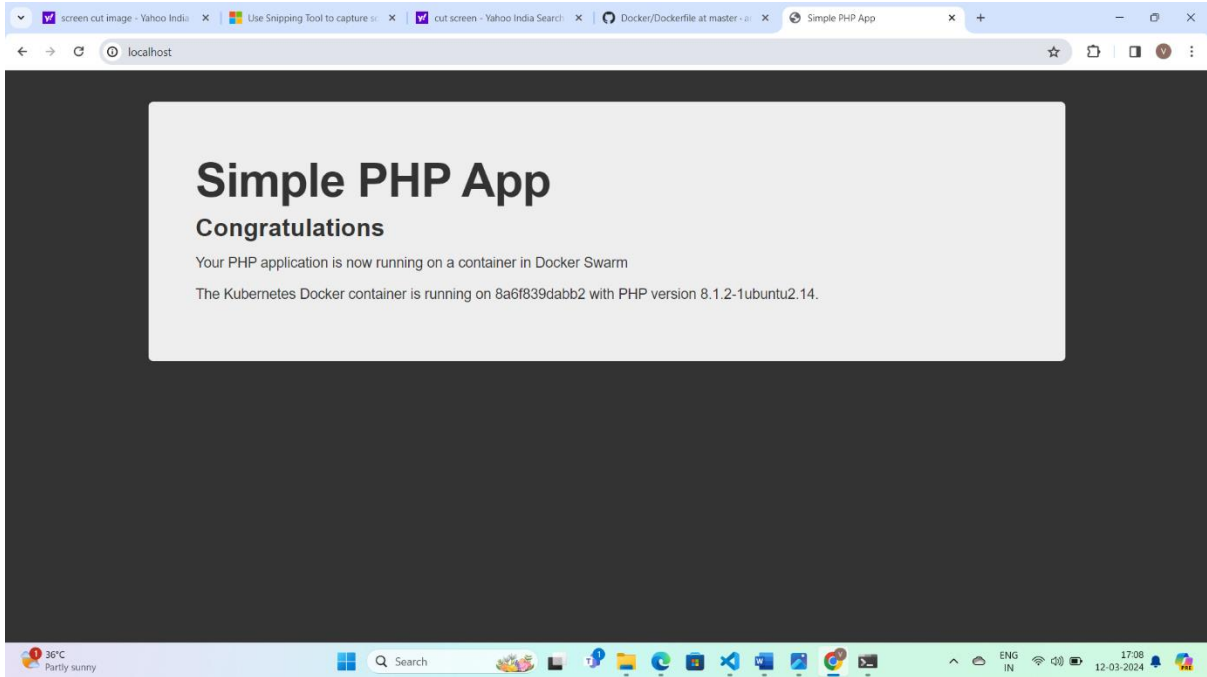


Container Deployment Using Docker Swarm



```
C:\Windows\System32\cmd.exe

A:\Documents\PHASE5\Docker>git clone https://github.com/Anuj1998/Docker.git
Cloning into 'Docker'...
remote: Enumerating objects: 168, done.
remote: Counting objects: 100% (50/50), done.
remote: Compressing objects: 100% (17/17), done.
remote: Total 168 (delta 47), reused 33 (delta 33), pack-reused 118
Receiving objects: 100% (168/168), 63.86 KiB | 3.19 MiB/s, done.
Resolving deltas: 100% (71/71), done.

A:\Documents\PHASE5\Docker>cd Docker

A:\Documents\PHASE5\Docker\Docker>docker build -t phpcode . -f Dockerfile
[*] Building 268.6s (13/13) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 574B
=> [internal] load metadata for docker.io/library/ubuntu:latest
=> [auth] library/ubuntu:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/7] FROM docker.io/library/ubuntu:latest@sha256:77906da86b60585ce12215807090eb327e7386c8fafb5402369e421f44 15.4s
=> => resolve docker.io/library/ubuntu:latest@sha256:77906da86b60585ce12215807090eb327e7386c8fafb5402369e421f44e 0.1s
=> => sha256:bccdd19f409ab0f3fba61b193d1b80af91b17ca9bdca9768a16ed05ce16552fcb 29.54MB / 29.54MB 6.2s
=> => sha256:77906da86b60585ce12215807090eb327e7386c8fafb5402369e421f44e4f17e 1.13kB / 1.13kB 0.0s
=> => sha256:aa772c98408ef833586d1d517d3e8de670f7e712bf581ce6053165081773259d 424B / 424B 0.0s
=> => sha256:ca2b0f26964cf2e88ba3e084d5983dab293fdb87485dc6445f37bbfc89d7459 2.30kB / 2.30kB 0.0s
=> => extracting sha256:bccdd19f409ab0f3fba61b193d1b80af91b17ca9bdca9768a16ed05ce16552fcb 7.9s
=> [internal] load build context
=> => transferring context: 153.37kB 0.2s
=> [2/7] RUN apt-get update -y 44.5s
=> [3/7] RUN apt-get install -y git curl apache2 php libapache2-mod-php php-mysql 198.2s
=> [4/7] RUN rm -rf /var/www/html/* 0.7s
=> [5/7] ADD src /var/www/html/ 0.1s
=> [6/7] RUN a2enmod rewrite 0.6s
=> [7/7] RUN chown -R www-data:www-data /var/www/html 0.7s
=> exporting to image 2.9s
=> exporting layers 2.9s
=> writing image sha256:a71ba4037050b3b63e58a50693eace9d5c652d9ebe269538486cf9ea4952f62 0.0s
=> naming to docker.io/library/phpcode 0.0s

View build details: docker-desktop:///dashboard/build/default/default/swc33osrwp69xy6jbc7ujm2
```

```
C:\Windows\System32\cmd.exe x + v

=> [6/7] RUN a2enmod rewrite 0.6s
=> [7/7] RUN chown -R www-data:www-data /var/www/html 0.7s
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View build details: docker-desktop:///dashboard/build/default/default/swc33osrwp69wxy6jbc7ujm2

What's Next?
View a summary of image vulnerabilities and recommendations → docker scout quickview

A:\Documents\PHASE5\Docker\Docker>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
phpcode latest a71ba4037050 37 seconds ago 283MB
varaprasad26/doc_ang_img latest 3cd864561338 2 hours ago 12.7MB

A:\Documents\PHASE5\Docker\Docker>docker swarm init
Swarm initialized: current node (0is8fioyavgkemapdh8pj2px) is now a manager.

To add a worker to this swarm, run the following command:

docker swarm join --token SWMTKN-1-lbrd27clqa4uvotl6uzyqga2jghaxqhx58itj0wpcay45bb286-3oklhdyglsiewsw58fqlimzps 192.168.65.3:2377

To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions.

A:\Documents\PHASE5\Docker\Docker>docker node ls
ID HOSTNAME STATUS AVAILABILITY MANAGER STATUS ENGINE VERSION
0is8fioyavgkemapdh8pj2px * docker-desktop Ready Active Leader 25.0.3

A:\Documents\PHASE5\Docker\Docker>docker service create -p 80:80 --name webserver phpcode
image phpcode:latest could not be accessed on a registry to record
its digest. Each node will access phpcode:latest independently,
possibly leading to different nodes running different
versions of the image.

14ohbtig34zvotnuttbw5uicw
overall progress: 1 out of 1 tasks
1/1: running [=====]
verify: Service converged
```

```
C:\Windows\System32\cmd.exe x + v

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14ohbtig34zvotnuttbw5uicw
overall progress: 1 out of 1 tasks
1/1: running [=====]
verify: Service converged

A:\Documents\PHASE5\Docker\Docker>docker service ls
ID NAME MODE REPLICAS IMAGE PORTS
14ohbtig34zv webserver replicated 1/1 phpcode:latest *:80->80/tcp

A:\Documents\PHASE5\Docker\Docker>curl localhost
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1">
  <title>Simple PHP App</title>
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link href="assets/css/bootstrap.min.css" rel="stylesheet">
  <style>body {margin-top: 40px; background-color: #333;}</style>
```

```
C:\Windows\System32\cmd.exe x + v
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    <style>body {margin-top: 40px; background-color: #333;}</style>
    <link href="assets/css/bootstrap-responsive.min.css" rel="stylesheet">
    <!--[if lt IE 9]><script src="http://html5shim.googlecode.com/svn/trunk/html5.js"></script><![endif]-->
  </head>

  <body>
    <div class="container">
      <div class="hero-unit">
        <h1>Simple PHP App</h1>
        <h2>Congratulations</h2>
        <p>Your PHP application is now running on a container in Docker Swarm</p>
        <p>The Kubernetes Docker container is running on 8a6f839dabb2 with PHP version 8.1.2-1ubuntu2.14.</p>
      </div>
    </div>
  </body>
</html>

A:\Documents\PHASE5\Docker\Docker>docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
8a6f839dabb2 phpcode:latest "/usr/sbin/apache2 -..." 3 minutes ago Up 3 minutes 80/tcp webserver.1.qi3wi99y5dh1c97cyjqcojq23

A:\Documents\PHASE5\Docker\Docker>
```