

OUTPUT

```
Microsoft Windows [Version 10.0.22621.2870]
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C:\Users\HP>cd Docker

C:\Users\HP>docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS        NAMES
a0fe57d09ce8   phpcode:latest "/usr/sbin/apache2 -..." 18 minutes ago Up 18 minutes 80/tcp        webserver.1.q7812fcocy8ea37ofwjfedjq7

C:\Users\HP>docker swarm init
Error response from daemon: This node is already part of a swarm. Use "docker swarm leave" to leave this swarm and join another one.

C:\Users\HP>docker swarm init --advertise-addr 192.168.99.100
Error response from daemon: This node is already part of a swarm. Use "docker swarm leave" to leave this swarm and join another one.

C:\Users\HP>docker service create -p 8080:8080 --name my-spring-webapp my-morning-spring-app
image my-morning-spring-app:latest could not be accessed on a registry to record
its digest. Each node will access my-morning-spring-app:latest independently,
possibly leading to different nodes running different
versions of the image.

wazwiln0uvrnltxltvvr4a7q
overall progress: 1 out of 1 tasks
1/1: running [=====]
verify: Service converged

C:\Users\HP>docker service ls
ID                NAME                MODE                REPLICAS        IMAGE                PORTS
wazwiln0uvrn     my-spring-webapp    replicated          1/1             my-morning-spring-app:latest *:8080->8080/tcp
986pzeb2s2m      webserver           replicated          1/1             phpcode:latest       *:80->80/tcp

C:\Users\HP>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>
  <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 a0fe57d09ce8 with PHP version 8.1.2-1ubuntu2.13.</p>
    </div>
  </div>
</body>
</html>

C:\Users\HP>docker service scale my-spring-webapp=2
my-spring-webapp scaled to 2
overall progress: 2 out of 2 tasks
1/2: running [=====]
2/2: running [=====]
verify: Service converged

C:\Users\HP>docker service ls
ID                NAME                MODE                REPLICAS        IMAGE                PORTS
wazwiln0uvrn     my-spring-webapp    replicated          2/2             my-morning-spring-app:latest *:8080->8080/tcp
986pzeb2s2m      webserver           replicated          1/1             phpcode:latest       *:80->80/tcp

C:\Users\HP>docker service scale my-spring-webapp=1
my-spring-webapp scaled to 1
```

Command Prompt

<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 a0fe57d09ce8 with PHP version 8.1.2-ubuntu2.13.</p>
</div>
C:\Users\HP\Docker>docker service scale my-spring-webapp=2
my-spring-webapp scaled to 2
overall progress: 2 out of 2 tasks
1/2: running [=====>]
2/2: running [=====>]
verify: Service converged
C:\Users\HP\Docker>docker service ls
ID NAME MODE REPLICAS IMAGE PORTS
wazwiln0uvrn my-spring-webapp replicated 2/2 my-morning-spring-app:latest *:8080->8080/tcp
986pzeb2s2m webserver replicated 1/1 phpcode:latest *:80->80/tcp
C:\Users\HP\Docker>docker service scale my-spring-webapp=1
my-spring-webapp scaled to 1
overall progress: 1 out of 1 tasks
1/1: running [=====>]
verify: Service converged
C:\Users\HP\Docker>docker service ls
ID NAME MODE REPLICAS IMAGE PORTS
wazwiln0uvrn my-spring-webapp replicated 1/1 my-morning-spring-app:latest *:8080->8080/tcp
986pzeb2s2m webserver replicated 1/1 phpcode:latest *:80->80/tcp
C:\Users\HP\Docker>docker service rm wazwiln0uvrn
wazwiln0uvrn
C:\Users\HP\Docker>

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Mail - Theertha T | Mphasis Te: | localhost8080 | Docker Hub | my-afternoon-sp | Practice Labs | EC2 Management |

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:

Services Search [Alt+S] N. Virginia Corestack_Role/theertha.t_mphasis @ 6798-1685-7427

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Successfully stopped i-064c7ece92623a295

Instances (3) Info
Find instance by attribute or tag (case-sensitive)
1
Name Instance ID Instance state Instance type Status check Alarm status Availability
DockerInstance i-064c7ece92623a295 Stopped t2.medium - No alarms us-east-1d
DockerEC2 i-08757fbb26f3f3f16 Running Initializing No alarms us-east-1d
DockerEC1 i-0872c6bce7026667e Running Initializing No alarms us-east-1d
Select an instance

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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-064c7ece92623a295&o...

Services Search [Alt+S] N. Virginia Corestack_Role/theerthat_t_mphasis @ 6798-1685-7427

```
Verifying : javapackages-filessystem-6.0.0-7.amzn2023.0.5.noarch 19/27
Verifying : google-noto-sans-vf-fonts-2021206-2.amzn2023.0.2.noarch 20/27
Verifying : xml-common-0.6.3-56.amzn2023.0.2.noarch 21/27
Verifying : langpacks-core-font-en-3.0-21.amzn2023.0.4.noarch 22/27
Verifying : dejavu-sans-mono-fonts-2.37-16.amzn2023.0.2.noarch 23/27
Verifying : dejavu-sans-fonts-2.37-16.amzn2023.0.2.noarch 24/27
Verifying : dejavu-serif-fonts-2.37-16.amzn2023.0.2.noarch 25/27
Verifying : libX11-common-1.7.2-3.amzn2023.0.3.noarch 26/27
Verifying : google-noto-fonts-common-2021206-2.amzn2023.0.2.noarch 27/27

Installed:
alsa-lib-1.2.7.2-1.amzn2023.0.2.x86_64
dejavu-sans-fonts-2.37-16.amzn2023.0.2.noarch
dejavu-serif-fonts-2.37-16.amzn2023.0.2.noarch
fontconfig-2.13.94-2.amzn2023.0.2.x86_64
freetype-2.13.0-2.amzn2023.0.1.x86_64
google-noto-sans-vf-fonts-2021206-2.amzn2023.0.2.noarch
graphite2-1.3.14-7.amzn2023.0.2.x86_64
java-17-amazon-corretto-devel-1:17.0.8+7-1.amzn2023.1.x86_64
javapackages-filessystem-6.0.0-7.amzn2023.0.5.noarch
libX11-1.7.2-3.amzn2023.0.3.x86_64
libXau-1.0.9-6.amzn2023.0.2.x86_64
libXrender-0.9.10-14.amzn2023.0.2.x86_64
libjpeg-turbo-2.1.4-2.amzn2023.0.2.x86_64
libxcb-1.13.1-7.amzn2023.0.2.x86_64
xml-common-0.6.3-56.amzn2023.0.2.noarch
cairo-1.17.4-3.amzn2023.0.2.x86_64
dejavu-sans-mono-fonts-2.37-16.amzn2023.0.2.noarch
fontconfig-2.13.94-2.amzn2023.0.2.x86_64
freetype-2.13.0-2.amzn2023.0.1.x86_64
google-noto-sans-vf-fonts-2021206-2.amzn2023.0.2.noarch
harfbuzz-7.0.0-2.amzn2023.0.1.x86_64
java-17-amazon-corretto-headless-1:17.0.8+7-1.amzn2023.1.x86_64
langpacks-core-font-en-3.0-21.amzn2023.0.4.noarch
libX11-common-1.7.2-3.amzn2023.0.3.noarch
libXext-1.3.4-6.amzn2023.0.2.x86_64
libbrotli-1.0.9-4.amzn2023.0.2.x86_64
libpng-2:1.6.37-10.amzn2023.0.2.x86_64
pixman-0.40.0-3.amzn2023.0.3.x86_64

Complete!
[ec2-user@ip-172-31-85-89 ~]$ java --version
openjdk 17.0.8 2023-07-18 LTS
OpenJDK Runtime Environment Corretto-17.0.8.7.1 (build 17.0.8+7-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.8.7.1 (build 17.0.8+7-LTS, mixed mode, sharing)
[ec2-user@ip-172-31-85-89 ~]$
```

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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-064c7ece92623a295&o...

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```
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing :
Installing : git-core-2.40.1-1.amzn2023.0.1.x86_64 1/1
Installing : git-core-doc-2.40.1-1.amzn2023.0.1.noarch 1/8
Installing : perl-File-Find-1.37-477.amzn2023.0.5.noarch 2/8
Installing : perl-Error-1:0.17029-5.amzn2023.0.2.noarch 3/8
Installing : perl-lib-0.65-477.amzn2023.0.5.x86_64 4/8
Installing : perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64 5/8
Installing : perl-Git-2.40.1-1.amzn2023.0.1.noarch 6/8
Installing : git-2.40.1-1.amzn2023.0.1.x86_64 7/8
Running scriptlet: git-2.40.1-1.amzn2023.0.1.x86_64 8/8
Verifying : perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64 8/8
Verifying : git-core-2.40.1-1.amzn2023.0.1.x86_64 1/8
Verifying : perl-lib-0.65-477.amzn2023.0.5.x86_64 2/8
Verifying : git-2.40.1-1.amzn2023.0.1.x86_64 3/8
Verifying : perl-Git-2.40.1-1.amzn2023.0.1.noarch 4/8
Verifying : perl-Error-1:0.17029-5.amzn2023.0.2.noarch 5/8
Verifying : git-core-doc-2.40.1-1.amzn2023.0.1.noarch 6/8
Verifying : perl-File-Find-1.37-477.amzn2023.0.5.noarch 7/8
Verifying : perl-File-Find-1.37-477.amzn2023.0.5.noarch 8/8

Installed:
git-2.40.1-1.amzn2023.0.1.x86_64 git-core-2.40.1-1.amzn2023.0.1.x86_64 git-core-doc-2.40.1-1.amzn2023.0.1.noarch
perl-Error-1:0.17029-5.amzn2023.0.2.noarch perl-File-Find-1.37-477.amzn2023.0.5.noarch perl-Git-2.40.1-1.amzn2023.0.1.noarch
perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64 perl-lib-0.65-477.amzn2023.0.5.x86_64

Complete!
[ec2-user@ip-172-31-85-89 ~]$ git --version
git version 2.40.1
[ec2-user@ip-172-31-85-89 ~]$
```

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```
Installing      : java-17-amazon-corretto-1:17.0.8+7-1.amzn2023.1.x86_64      10/11
Installing      : apache-maven-3.2.5-1.el6.noarch                          11/11
Running scriptlet: apache-maven-3.2.5-1.el6.noarch                          11/11
Verifying       : libXtst-1.2.3-14.amzn2023.0.2.x86_64                    1/11
Verifying       : libXi-1.7.10-6.amzn2023.0.2.x86_64                      2/11
Verifying       : glib-5.2.1-9.amzn2023.x86_64                           3/11
Verifying       : java-17-amazon-corretto-1:17.0.8+7-1.amzn2023.1.x86_64  4/11
Verifying       : libXinerama-1.1.4-8.amzn2023.0.2.x86_64                 5/11
Verifying       : libICE-1.0.10-6.amzn2023.0.2.x86_64                     6/11
Verifying       : libXrandr-1.5.2-6.amzn2023.0.2.x86_64                   7/11
Verifying       : libSM-1.2.3-8.amzn2023.0.2.x86_64                       8/11
Verifying       : libXt-1.2.0-4.amzn2023.0.2.x86_64                       9/11
Verifying       : javapackages-tools-6.0.0-7.amzn2023.0.5.noarch          10/11
Verifying       : apache-maven-3.2.5-1.el6.noarch                         11/11

Installed:
  apache-maven-3.2.5-1.el6.noarch      glib-5.2.1-9.amzn2023.x86_64      java-17-amazon-corretto-1:17.0.8+7-1.amzn2023.1.x86_64
  javapackages-tools-6.0.0-7.amzn2023.0.5.noarch  libICE-1.0.10-6.amzn2023.0.2.x86_64  libSM-1.2.3-8.amzn2023.0.2.x86_64
  libXi-1.7.10-6.amzn2023.0.2.x86_64  libXinerama-1.1.4-8.amzn2023.0.2.x86_64  libXrandr-1.5.2-6.amzn2023.0.2.x86_64
  libXt-1.2.0-4.amzn2023.0.2.x86_64  libXtst-1.2.3-14.amzn2023.0.2.x86_64

Skipped:
  apache-maven-3.5.2-1.el6.noarch

Complete!
[ec2-user@ip-172-31-85-89 ~]$ mvn --version
Apache Maven 3.2.5 (12a6b3ac947671f05b81f49094c53f426d8ceal; 2014-12-14T17:29:23+00:00)
Maven home: /usr/share/apache-maven
Java version: 17.0.8, vendor: Amazon.com Inc.
Java home: /usr/lib/jvm/java-17-amazon-corretto.x86_64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.1.38-59.109.amzn2023.x86_64", arch: "amd64", family: "unix"
[ec2-user@ip-172-31-85-89 ~]$
```

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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-064c7ece92623a295&o...

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```
Installing      : libnftnl-1.2.2-2.amzn2023.0.2.x86_64      5/10
Installing      : libnftnl-1.0.1-19.amzn2023.0.2.x86_64    6/10
Installing      : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64  7/10
Installing      : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64  8/10
Installing      : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64  9/10
Running scriptlet: iptables-nft-1.8.8-3.amzn2023.0.2.x86_64  9/10
Running scriptlet: docker-20.10.25-1.amzn2023.0.1.x86_64  10/10
Installing      : docker-20.10.25-1.amzn2023.0.1.x86_64    10/10
Running scriptlet: docker-20.10.25-1.amzn2023.0.1.x86_64    10/10

Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.

Verifying       : libnftnl-1.0.1-19.amzn2023.0.2.x86_64      1/10
Verifying       : containerd-1.7.2-1.amzn2023.0.1.x86_64    2/10
Verifying       : libnftnl-1.2.2-2.amzn2023.0.2.x86_64      3/10
Verifying       : libcgroup-3.0-1.amzn2023.0.1.x86_64        4/10
Verifying       : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64  5/10
Verifying       : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64  6/10
Verifying       : runc-1.1.7-1.amzn2023.0.1.x86_64           7/10
Verifying       : pigz-2.5-1.amzn2023.0.3.x86_64             8/10
Verifying       : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64   9/10
Verifying       : docker-20.10.25-1.amzn2023.0.1.x86_64     10/10

Installed:
  containerd-1.7.2-1.amzn2023.0.1.x86_64  docker-20.10.25-1.amzn2023.0.1.x86_64  iptables-libs-1.8.8-3.amzn2023.0.2.x86_64
  iptables-nft-1.8.8-3.amzn2023.0.2.x86_64  libnftnl-1.0.1-19.amzn2023.0.2.x86_64  libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64
  libnftnl-1.2.2-2.amzn2023.0.2.x86_64  libnftnl-1.2.2-2.amzn2023.0.2.x86_64  pigz-2.5-1.amzn2023.0.3.x86_64
  runc-1.1.7-1.amzn2023.0.1.x86_64

Complete!
[ec2-user@ip-172-31-85-89 ~]$ docker --version
Docker version 20.10.25, build b82b9f3
[ec2-user@ip-172-31-85-89 ~]$
```

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