

- Containers
- Images
- Volumes
- Builds
- Docker Hub
- Docker Scout
- Extensions

Containers [Give feedback](#)

View all your running containers and applications. [Learn more](#)

Container CPU usage ⓘ


0.21% / 1600% (16 CPUs available)

Container memory usage ⓘ

140.5MB / 7.43GB

[Show charts](#)

 ☒ Only show running containers

<input type="checkbox"/>	Name	Container ID	Image	Port(s)	CPU (%)	Last started	Actions
<input type="checkbox"/>	<input type="radio"/> admiring_dijkstra	ee28deb699b7	<a href="#">53a18edff809</a>		0%	7 hours ago	  
<input type="checkbox"/>	<input type="radio"/> hungry_lamport	062f62a496cf	<a href="#">library/img1docker</a>		0%	1 day ago	  
<input type="checkbox"/>	<input type="radio"/> nervous_buck	2e173571e47f	<a href="#">library/img1docker</a>		0%	1 day ago	  
<input type="checkbox"/>	<input type="radio"/> zealous_brown	dc58ec45025b	<a href="#">library/img1docker</a>		0%	1 day ago	  
<input type="checkbox"/>	<input type="radio"/> ecstatic_turing	0aa535ab0102	<a href="#">ubuntu</a>		0%	14 days ago	  

Showing 6 items

Terminal

warimage-jenkins

prasanndh/warimage-jenkins

<none>

prasanndh/warimage-jenkins

biju/simpleapp

<none>

<none>

img1docker

nginx

ubuntu

PS C:\Users\Prasanndh Raaju>

latest

latest

<none>

latest

latest

<none>

<none>

latest

latest

latest

91d51e2e723f

91d51e2e723f

302162a23ae8

979ae692762a

098bb290818f

0c9f55932b8d

04120b09ff48

889707b33221

53a18edff809

a04dc4851cbc

4 minutes ago

4 minutes ago

5 minutes ago

8 minutes ago

45 minutes ago

46 minutes ago

2 hours ago

26 hours ago

5 weeks ago

7 weeks ago

520MB

520MB

520MB

520MB

520MB





520MB

520MB


520MB

192MB

78.1MB




Windo...



Engine running

RAM 1.17 GB CPU 0.19% Disk: 2.10 GB used (limit 1006.85 GB)

Terminal New version available



16:19 18-03-2025

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Show charts


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<input type="checkbox"/>	<input type="radio"/> ecstatic_turing	0aa535ab0102	<a href="#">ubuntu</a>		0%	14 days ago	  

Showing 6 items

Terminal



Windo... 



```
<none>                <none>    04120b09ff48    2 hours ago    520MB
img1docker             latest     889707b33221    26 hours ago   520MB
nginx                  latest     53a18edff809    5 weeks ago    192MB
ubuntu                 latest     a04dc4851cbc    7 weeks ago    78.1MB
PS C:\Users\Prasannndh Raaju> docker ls
docker: 'ls' is not a docker command.
See 'docker --help'
PS C:\Users\Prasannndh Raaju> docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                    NAMES
d7df4719a60b   04120b09ff48   "catalina.sh run"       2 hours ago   Up 2 hours    0.0.0.0:8888->8080/tcp    war-container
PS C:\Users\Prasannndh Raaju>
```

DevKECPrasDevKub|sam|sam|sam|Intr|Pre|Fwc|Pad|sam|docDoc|Pers|Acc|xPro|Syst|Intepre|

https://hub.docker.com/repositories/prasnndh

Import favoritesMcAfee SecurityDell

NewIntroducing our new CEO Don Johnson - Read More →

docker hub

ExploreMy Hub

Search Docker Hub

ctrl+K?

🔔

🔄

⋮

P

prasnndh  
Docker Personal

Repositories

Settings

Default privacy

Notifications

Billing

Usage

Pulls

Storage

Repositories

All repositories within the prasnndh namespace.

Search by repository name

All content

Create a repository

Name	Last Pushed	Contains	Visibility	Scout
prasnndh/simplewebapp	1 minute ago	IMAGE	Public	Inactive

1-1 of 1

9+

Search

ENG IN17:0019-03-2025

Dashboard &gt; sample2 &gt; #7

✓ #7 (Mar 19, 2025, 11:27:40 AM)

Keep this build forever



Started by user [Prasannndh Raaju M R](#)

Started 2 min 58 sec ago  
Took 1 min 29 sec



This run spent:

- 21 ms waiting;
- 1 min 29 sec build duration;
- 1 min 29 sec total from scheduled to completion.



**Revision:** c414d349a09ce15be94c3d0b7a39b2bf6bc72253

**Repository:** [https://github.com/PrasanndhRaaju-MR/DevOps\\_War.git](https://github.com/PrasanndhRaaju-MR/DevOps_War.git)

- refs/remotes/origin/main



No changes.

 Git Build Data Pipeline Overview

 Pipeline Console

 Restart from Stage

 [Replay](#)

#### Pipeline Steps

 Workspaces

[← Previous Build](#)

## REST API

Jenkins 2.492.2

```
4b7c01ed0534: Preparing
f844dcf94898: Waiting
39cf0ac89a5a: Waiting
3359bc3d7a6a: Waiting
4b7c01ed0534: Waiting
bc05267c613b: Mounted from library/tomcat
5f70bf18a086: Mounted from library/tomcat
4e5b554b7345: Mounted from library/tomcat
43c9f8a1dd61: Mounted from library/tomcat
6a308d20be99: Pushed
3359bc3d7a6a: Mounted from library/tomcat
f844dcf94898: Mounted from library/tomcat
39cf0ac89a5a: Mounted from library/tomcat
4b7c01ed0534: Mounted from library/tomcat
latest: digest: sha256:59f8da3db0bf7d6e2dc176dc2ba99a8bb12c728bb7f8918d01bd39b7595627e size: 2409
[Pipeline] }
[Pipeline] // withDockerRegistry
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```



localhost:8080/job/sample2/7/console

Dashboard > sample2 >

prasanndh\_raaju@DESKTOP-5

GNU nano 7.2 Jenkinsfile \*

```
}
stage('build') {
  steps {
    bat "mvn clean"
    bat "mvn install"
  }
}
stage('build to images') {
  steps {
    script{
      bat 'docker build -t prasnndh/simplewebapp .'
    }
  }
}
stage('push to hub') {
  steps {
    script{
      withDockerRegistry(credentialsId: 'Demo', url: 'https://index.docker.io/v1/') {
        bat 'docker push prasnndh/simplewebapp'
      }
    }
  }
}
}
```

**Help** **Write Out** **Where Is** **Cut** **Execute** **Location** **M-U** **Set Mark**  
**Exit** **Read File** **Replace** **Paste** **Justify** **Go To Line** **M-E** **Copy**

[Pipeline] // withEnv  
[Pipeline] }  
[Pipeline] // node  
[Pipeline] End of Pipeline  
Finished: SUCCESS

REST API Jenkins 2.492.2

9+ Search ENG IN 17:00 19-03-2025

localhost:8080/job/sample2/7/console

Dashboard > sample2 > #7

```
prasannndh_raaju@DESKTOP-S
.io/coredns/coredns_v1.11.3: no such file or directory
> kubectl.sha256: 64 B / 64 B [-----] 100.00% ? p/s 0s
> kubelet.sha256: 64 B / 64 B [-----] 100.00% ? p/s 0s
> kubeadm.sha256: 64 B / 64 B [-----] 100.00% ? p/s 0s
> kubectl: 54.67 MiB / 54.67 MiB [-----] 100.00% 778.04 KiB p/s 1m12s
> kubeadm: 67.66 MiB / 67.66 MiB [-----] 100.00% 487.14 KiB p/s 2m22s
> kubelet: 73.81 MiB / 73.81 MiB [-----] 100.00% 512.91 KiB p/s 2m28s
  ▪ Generating certificates and keys ...
  ▪ Booting up control plane ...
  ▪ Configuring RBAC rules ...
🔗 Configuring bridge CNI (Container Networking Interface) ...
🔗 Verifying Kubernetes components...
  ▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
☀️ Enabled addons: storage-provisioner, default-storageclass
🏃 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
prasannndh_raaju@DESKTOP-S03TDPN:~$ docker login -u prasnnndh
Password:
Error response from daemon: Get "https://registry-1.docker.io/v2/": unauthorized: incorrect username or password
prasannndh_raaju@DESKTOP-S03TDPN:~$ docker login -u prasnnndh
Password:
^C
prasannndh_raaju@DESKTOP-S03TDPN:~$ ^C
prasannndh_raaju@DESKTOP-S03TDPN:~$ docker login -u prasnnndh
Password:
WARNING! Your password will be stored unencrypted in /home/prasannndh_raaju/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
prasannndh_raaju@DESKTOP-S03TDPN:~$ |
```

[Pipeline] End of Pipeline  
Finished: SUCCESS

REST API Jenkins 2.492.2





## DOCKER COMPOSE

Docker Compose is a tool that allows you to define and manage multi-container Docker applications. It simplifies the process of running multiple containers, their configurations, and their interdependencies. Compose uses a YAML file to define the services, networks, and volumes required for your application.

→ Docker Compose is a tool which is used to manage multi container-based applications.

→ Using Docker Compose we can easily setup & deploy multi container-based applications.

→ We will give containers information to Docker Compose using YML file (docker-compose.yml)

→ Docker Compose YML should have all the information related to containers creation.

```
sudo apt install fontconfig openjdk-17-jre
java -version
```

[enkins.io/doc/book/installing/linux/#debianubuntu](https://enkins.io/doc/book/installing/linux/#debianubuntu)

<https://www.jenkins.io/doc/book/installing/linux/#debianubuntu>

```
sudo service Jenkins restart
sudo service Jenkins status
```

docker

---

```
# sudo apt install docker.io -y
# sudo service docker restart
# sudo service docker status
```

```
# sudo usermod -aG docker $USER
```

```
docker images
docker ps
```

```
# sudo chmod 666 /var/run/docker.sock
```

## **Kubernetes Installation:**

<https://kubernetes.io/docs/tasks/tools/install-kubectl-linux/>

```
curl -LO https://dl.k8s.io/release/v1.32.0/bin/linux/amd64/kubectl
```

```
sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl
```

```
chmod +x kubectl
mkdir -p ~/.local/bin
mv ./kubectl ~/.local/bin/kubectl
```

```
kubectl version --client
```

<https://minikube.sigs.k8s.io/docs/start/?arch=%2Fwindows%2Fx86-64%2Fstable%2F.exe+download>

```
curl -LO https://github.com/kubernetes/minikube/releases/latest/download/minikube-linux-amd64
sudo install minikube-linux-amd64 /usr/local/bin/minikube && rm minikube-linux-amd64
```

```
minikube start  
minikube status
```

```
kubectl get pod
```

```
kubectl get deploy  
kubectl get replica  
kubectl get pod -o wide
```

MySQL with K8s

```
version: '3'
```

```
services:
```

```
  web:
```

```
    image: nginx:latest
```

```
    ports:
```

```
      - 80:80
```

```
  db:
```

```
    image: mysql:latest
```

```
    environment:
```

```
      - MYSQL_ROOT_PASSWORD=secret
```

```
docker exec -it david-db-1 /bin/bash
```

```
mysql -u root -p
```

```
sudo apt install docker-compose -y
```

[download docker compose](#)

```
sudo curl -L "https://github.com/docker/compose/releases/latest/download/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
```

Ubuntu Directory: /var/lib/jenkins/workspace/maven/target/my-app.war