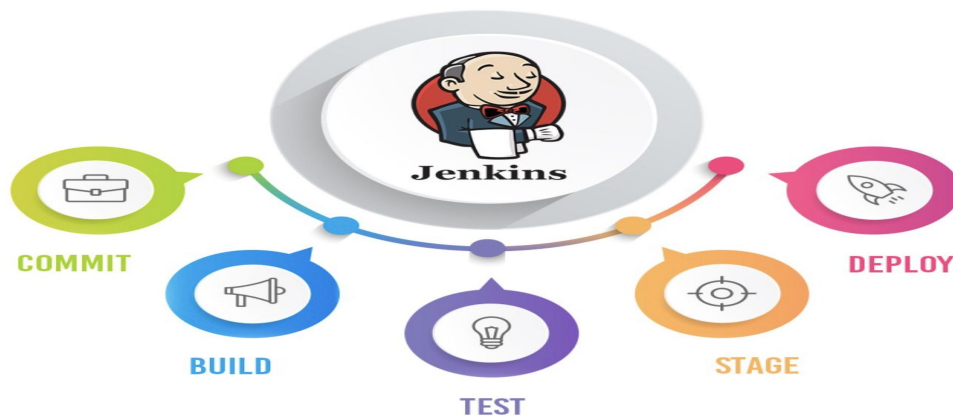


Jenkins :

Jenkins is an automation server. While you can use it to automate just about any task, it's most often associated with building source code and deploying the results. For many, Jenkins is synonymous with continuous integration and continuous delivery (CI/CD).

Docker Compose :

- Sometimes you need to run more than one container, but you don't want or need the complexity of Kubernetes.
- Docker Compose lets you configure related containers in a single YAML file.
- They come in a simpler system that's more suited to smaller applications that don't need Kubernetes' resiliency and scaling.



Docker Based Jenkins Setup

- Create directory docker-jenkins
- Contents of docker-compose.yml

```
jenkins@jenkins:~/docker-jenkins$ cat docker-compose.yml
version: '3.3'
services:
  jenkins:
    image: jenkins/jenkins:lts
    privileged: true
    user: root
    ports:
      - '80:8080'
      - '443:8443'
      - '50000:50000'
    container_name: jenkins
    volumes:
      - /home/jenkins/docker-jenkins/jenkins_data:/var/jenkins_home
      - /var/run/docker.sock:/var/run/docker.sock

jenkins@jenkins:~/docker-jenkins$
```


Jenkins Look|Feel




Welcome to Jenkins!

☐ Keep me signed in

Sign in

Jenkins

 **Jenkins**

Search (⌘+K) ?

amrit ▾ log out

Dashboard >

+ New Item

my CI/CD tool

[Edit description](#)

👤 People

📋 Build History

⚙️ Manage Jenkins

👤 My Views

Build Queue ▾

No builds in the queue.

Build Executor Status ▾

1 Idle

2 Idle

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Create a job →

Set up a distributed build

Set up an agent →

Configure a cloud →

[Learn more about distributed builds](#) ↗

Docker Based Jenkins Setup

- Install docker-compose
- `sudo apt install docker-compose`
- Create docker-compose.yml and paste the content from resources file
- Run docker-compose using below cmd
- `docker-compose up -d`
- As we go further within few mins we will get the password instructions from UI

Jenkins initial password

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:

```
/var/jenkins_home/secrets/initialAdminPassword
```

Please copy the password from either location and paste it below.

Administrator password

Docker Based Jenkins Setup

- This will run jenkins latest image with root privileges
- 50000 port is used for communication between Jenkins master and agent
- 8080 port to map jenkins container running to host 80 port.
- **host path i.e**
/home/jenkins/docker-jenkins/jenkins_data
is mapped to /var/jenkins_home path in the container