

# Cloud and Jenkins

23/05/2025

Cloud and Advantages:

## Cloud :

Cloud is basically called Cloud computing which we can access the services like, storage , database, networking and Software and etc.

Advantages:

- 1.Scalability : we can scale the resource on our requirements.
- 2.Accessibility: we can access it from anywhere, any device.
- 3.Security: Built- in security , encryption and safe of the data.
- 4.performance : high performance, better than local server.
- 5.collaboration: it helps to teams work collaboratively.

Installing Jenkins and Tomcat :

#to check jenkins installed or not

In cmd = **Java -jar jenkins.war**

#check jenkins server is working or not in browser with **localhost:8081**

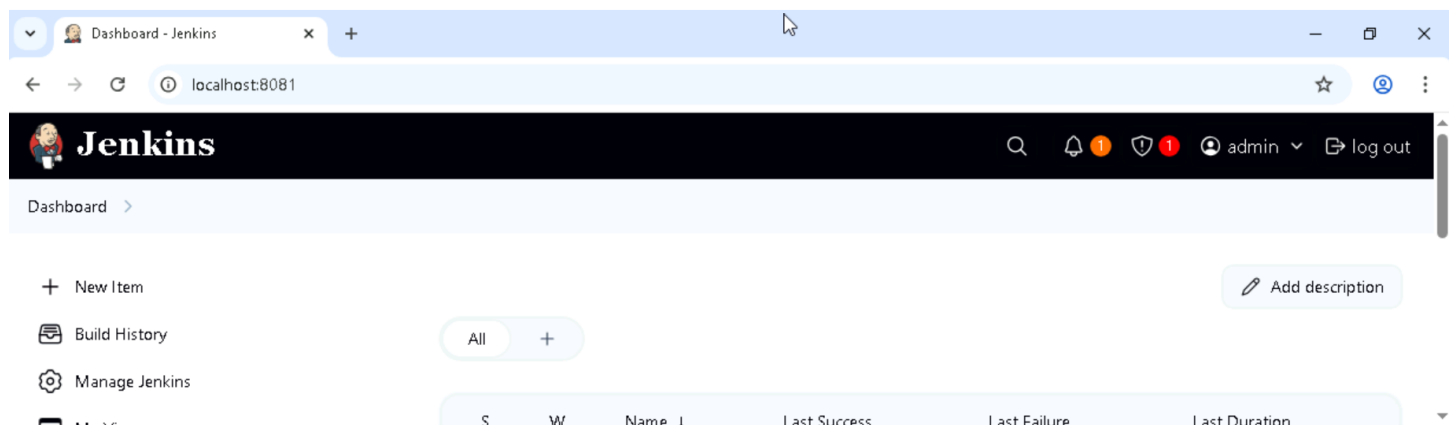
#To get password of jenkins:

**c>programData>Jenkins>.jenkins>secrets**

#Jenkins installed successfully

Jenkins running on port:

<http://localhost:8081/jenkins>



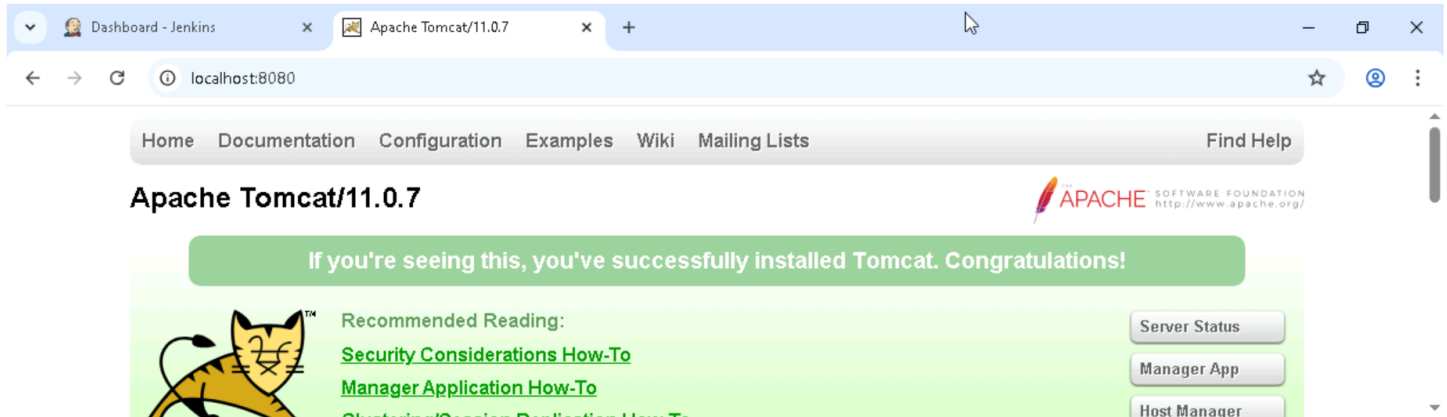
#download the latest Tomcat version and paste it in program files

step1- downloaded the latest version of Tomcat in local system

step2 – install and add the path to environment variable

ste3 – Tomcat running on port

<http://localhost:8080>



## installed Plugins:

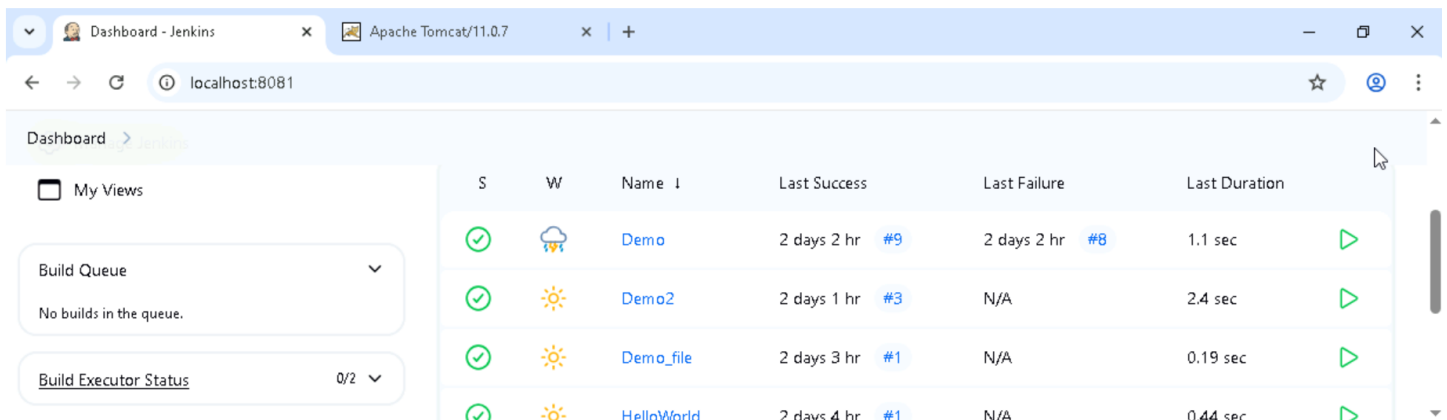


## Installed Junit:



Jenkins intall — Done  
Tomcat setup — Done  
Git setup — Done  
Maven Setup — Done  
Configuration —Done - JENKINS\_HOME" environment variable  
Management —Done  
Setup Build Jobs — Done

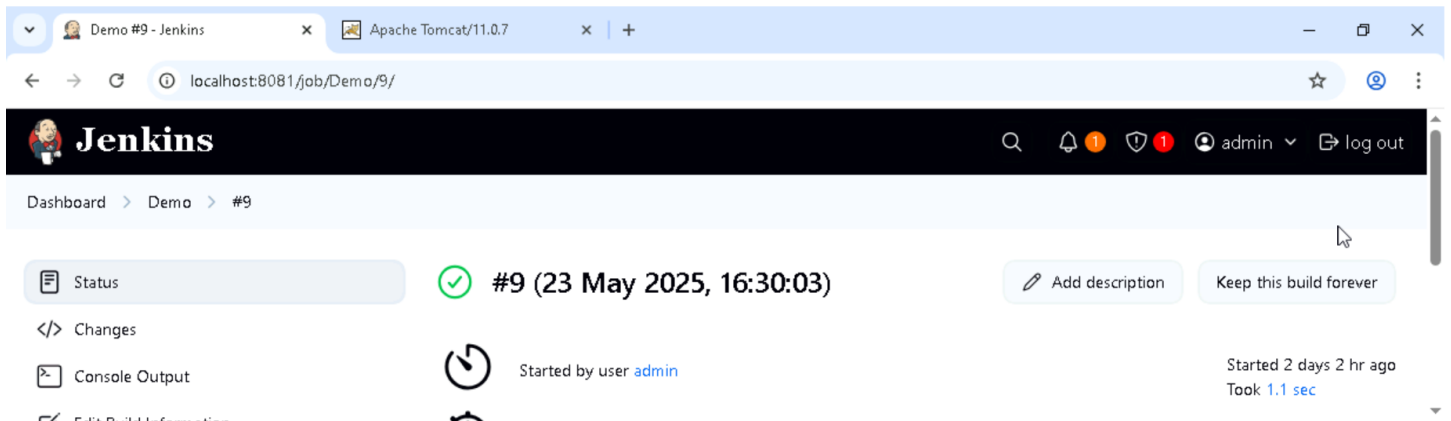
created Jobs:



The screenshot shows the Jenkins Dashboard at localhost:8081. On the left, there's a sidebar with 'My Views' and a 'Build Queue' section indicating 'No builds in the queue.' The main area displays a table of jobs:

S	W	Name	Last Success	Last Failure	Last Duration
✓	☁	Demo	2 days 2 hr #9	2 days 2 hr #8	1.1 sec
✓	☀	Demo2	2 days 1 hr #3	N/A	2.4 sec
✓	☀	Demo_file	2 days 3 hr #1	N/A	0.19 sec
✓	☀	HelloWorld	2 days 4 hr #1	N/A	0.44 sec

Build and Test:



The screenshot shows the Jenkins build page for job 'Demo' build #9. The top header includes the Jenkins logo, search, notifications, and user 'admin' with a 'log out' button. The breadcrumb trail is 'Dashboard > Demo > #9'. The main content area shows the build status as a green checkmark, followed by '#9 (23 May 2025, 16:30:03)'. Below this, there are links for 'Add description' and 'Keep this build forever'. On the left, there are tabs for 'Status', 'Changes', and 'Console Output'. The 'Status' tab is active, showing a clock icon and 'Started by user admin'. On the right, it says 'Started 2 days 2 hr ago' and 'Took 1.1 sec'.

#imported the files from the git direct to jenkins  
#done Testing the Part

**I have followed and completed all the steps and tasks from the document as instructed by Meher.**

## Sample java Program

### Java Program - Demo001

```
public class Demo001 { // Driver class

    public static void main(String[] args) {

        // main is a method

        // The code execution starts from here and ends here

        System.out.println("Hi, I'm displaying my msg from main method");

        A obj1 = new A();

        obj1.method1();

        B obj2 = new B();

        obj2.method2();

    }

}

class A {

    void method1() {

        // method1 is a method of class A

        System.out.println("Hi, I'm displaying my msg from method1 method");

    }

}

class B {

    void method2() {

        // method2 is a method of class B

        System.out.println("Hi, I'm displaying my msg from method2 method");

    }

}
```

Thank You