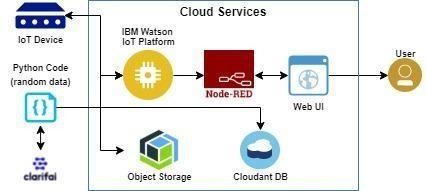
Utilization of testing tools

software testing tools are required for the betterment of the applicat ion or software.That's why we have so many tools available in the market where some are open-source and paid tools.The significant difference between open-source and the paid tool is that the open-source tools have limited features, whereas paid tool or commercial tools have no limitat ion for the features. The select ion of tools depends on the user's requirements, whether it is paid or free.

The [software testing to](https://www.javatpoint.com/software-testing-tutorial)ols can be categorized, depending on the licensing (paid or commercial, open-source), techno logyusage, type of testing, and so on.



Wit h the help of testing tools, we can improve our software performance, deliver a high-qualit y product, and reduce the duration of testing, which is spent on manual efforts.

The software testing tools can be divided into the following:

**Test management tool Bug tracking tool**

**Automated testing tool Performance testing tool Cross-browser testing tool Integration testing tool Unit testing tool Mobile/android testing tool GUI testing tool**

**Security testing tool**

# Test management tool

Test management tools are used to keep track of all the testing act ivit y, fast data analysis, manage manual and automation test cases, various environments, and plan and maintain [manual](https://www.javatpoint.com/manual-testing) [testing as](https://www.javatpoint.com/manual-testing) well.

# Bug tracking tool

The defect tracking tool is used to keep track of the bug fixes and ensure the delivery of a qualit y product. This tool can help us to find the bugs in the testing stage so that we can get the defect - free data in the production server. Wit h the help of these tools, the end-users can allow reporting the bugs and issues direct ly on their applicat ions.

# Automation testing tool

This type of tool is used to enhance the productivity of the product and improve the accuracy. We can reduce the time and cost of the applicat ion by writ ing so me test scripts in any programming language.

# Performance testing tool

Performance or Load testing tools are used to check the load, stabilit y, and scalabilit y of the applicat ion. When n-number of the users using the applicat ion at the same t ime, and if the applicat ion gets crashed because of the immense load, to get through this type of issue, we need load testing tools.

# Cross-browser testing tool

This t ype of tool is used when we need to compare a web applicat ion in the various web browser plat forms. It is an important part when we are developing a pro ject. With the help of these tools, we will ensure the consistent behavior of the application in mult iple devices, browsers, and plat forms.

# Integration testing tool

This type of tool is used to test the interface between modules and find the crit ical bugs that are

happened because of the different modules and ensuring that all the modules are working as per the client requirements.

For more details about the mobile and android testing tool, refers to the below link: [Click Here](https://www.javatpoint.com/integration-testing-tools)

# Unit testing tool

This testing tool is used to help the programmers to improve their code qualit y, and wit h the help of these tools, they can reduce the time of code and the overall cost of the software.

For more details about the unit testing tool, refers the below link: [Click Here](https://www.javatpoint.com/unit-testing-tools)

# Mobile/android testing tool

We can use this type of toolwhen we are testing any mo bile applicat ion. Some of the tools are open-source, and some of the tools are licensed. Each tool has its funct ionalit y and features.

For more details about the mobile or android testing tool, refers to the below link: [Click Here](https://www.javatpoint.com/mobile-testing-tools)

# GUI testing tool

GUI testing tool is used to test the User interface of the applicat ion because a proper [GUI](https://www.javatpoint.com/gui-full-form) [(graphical user interface) is always useful to grab the user's attention. These t ype of tools will](https://www.javatpoint.com/gui-full-form) [help to find the loopholes in the application's design and makes its better.](https://www.javatpoint.com/gui-full-form)

For more details about GUI testing tool, refers the below link: [Click Here](https://www.javatpoint.com/gui-testing-tools)

# Security testing tool

The securit y testing tool is used to ensure the securit y of the software and check for the securit y leakage. If any securit y loopho le is there, it could be fixed at the early stage of the product. We need this t ype of the tool when the so ftware has encoded the securit y code which is not accessible by the unauthorized users.