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Gradle Interview Questions

Gradle Interview Questions & Answers

Gradle is an open-source build automation system that aims to increase the productivity of the developers. The concepts of Apache Ant and Apache Maven forms the base of Gradel. Unlike Apache Maven, Gradle does not use XML. Instead, it uses a Groovy-based domain-specific language. But it also supports many other programming languages. Gradle helps in the management of projects which are supposed to grow with time. Starting with mobile apps to big enterprises, Gradle assists in team building, automation and delivering the best software in the least time. Gradle has been noted for assisting 20 top open-source projects and has earned the trust of millions of developers.

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Q1. Explain Gradle?

Gradle is a build automation system, this means that it is a system used to automate creating software and all the other processes involved in it. Moreover, it is open-source and brings in a programming language for Java which is both domain-specific and Groovy. Being groovy, this object-oriented language is compatible with Java syntax. This build tool is based on Apache Ant as well as on Apache Maven.

Q2. List system requirements to install and run Gradle?

System requirements to install and run Gradle

- JDK version 6 or above
- JDK libraries must set in JAVA_HOME

Here you just need to follow certain steps to insatll Gradle.

Firstly you need to download the ZIP file and then unzip it into the directory. Now the distribution ZIP file also consists of two types: Binary or complete or all.

The distribution file in the directory requires to be in the terminal path to configure the settings and finally install the Gradle.

Q3. **List tools to install Gradle via package manager?**

Tools to install Gradle via package manager are listed below:

- SDKMAN! is a tool for managing parallel versions of multiple Software Development Kits on most Unix-based systems.
- Homebrew is "the missing package manager for macOS".

Q4. **What is a current stable version of Gradle? Whats new in it?**

Gradle 6.0 is the current stable version of Gradle. The most important feature of Gradle 6.0 is that it is stable and production-ready.

Q5. **List some advantages of using Gradle?**

Gradle is a really efficient tool that helps in the automation process and also in building tools. Herewith the help of this tool it really reduces our time in developing a tool and also testing them which obviously takes a lot of time. Eventually using this tool it really saves a lot of time and increases productivity. These days, mostly the developers use Gradle or maven instead of using ant because of their benefits.

Q6. **Explain Gradle Console, Wrapper, and Daemon?**

The **Gradle console** is basically used to build tools and it is replaced by the Build in android studio 3.1.

The **Gradle wrapper** is basically a script that can be used by the developers during the installation process. This is done automatically and at the same time, it saves a lot of time.

Gradle daemon is actually a program that can be run in the background of the computer. It is not in the direct control of the user.

Q7. **What is build scan?**

A build scan is a representation of data captured as you run your build. The Build Scan Plugin does the work of capturing the data and sending it to the Build Scan Service that transforms the data into information you can use and share with others. A build scan is defined as a shareable record of a build. It provides insights into what happened and why. It allows creating a build scan at scans.gradle.com for the Gradle and Maven build tools for free.

Q8. [How to Auto-apply the build scan plugin?](#)

Gradle should detect that the build scan plugin is already requested, and should not auto-apply it.

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