Features of Selenium 4

**WebDriver becomes W3C (World Wide Web Consortium) Standardization**

Selenium is aligned to the W3C (World Wide Web Consortium) standards, and the WebDriver protocol is formally defined and driven by the browser vendors. This ensures compatibility with emerging web technologies.

**Selenium Grid Enhanced with Updates**

The earlier versions of Selenium Grid were complex and involved the use of hubs and nodes architecture. The latest version, Selenium 4, has a simplified architecture with fewer moving parts, making it more scalable and performant.

**Selenium 4 IDE Upgraded**

Selenium IDE is now more robust and includes the capability to record scripts directly from a browser, making it easier to create and maintain test cases.

**Chrome Debugging Protocol (CDP)**

Selenium 4 provides native support for Chrome Debugging Protocol (CDP) through the DevTools interface. QA professionals can leverage features like Fetch, Network, Profile, Performance, Application Cache, and more.

**Multiple Windows and Tab Management**

Selenium 4 offers improved support for managing multiple windows and tabs, allowing for seamless automation testing across different browser windows and tabs.

**Telemetry and GraphQL**

A framework called Open Telemetry has been integrated into Selenium 4. This feature allows for more comprehensive monitoring of the test execution, providing insights into the performance and health of the test environment.

**Improved Documentation**

With the release of Selenium 4, the documentation has been significantly improved, making it easier for developers to understand and utilize the tool effectively.