What Is Authentication?

Authentication is the act of validating that users are whom they claim to be. This is the first step in any security process.

Complete an authentication process with:

* **Passwords.**Usernames and passwordsare the most common [authentication factors](https://www.okta.com/products/adaptive-multi-factor-authentication/). If a user enters the correct data, the system assumes the identity is valid and grants access.
* [**One-time pins**](https://www.okta.com/blog/2020/06/what-is-a-one-time-password-otp/)**.** Grant access for only one session or transaction.
* **Authentication apps.**Generate security codes via an outside party that grants access.
* [**Biometrics**](https://www.okta.com/blog/2020/07/biometric-authentication/)**.**A user presents a fingerprint or eye scan to gain access to the system.

In some instances, systems require the successful verification of more than one factor before granting access. This multi-factor authentication (MFA) requirement is often deployed to increase security beyond what passwords alone can provide.

What Is Authorization?

[Authorization](https://www.okta.com/identity-101/authorization/) in system security is the process of giving the user permission to access a specific resource or function. This term is often used interchangeably with access control or client privilege.

Giving someone permission to download a particular file on a server or providing individual users with administrative access to an application are good examples of authorization.

In secure environments, authorization must always follow authentication. Users should first prove that their identities are genuine before an organization’s administrators grant them access to the requested resources.

| **JSON** | **XML** |
| --- | --- |
| It is [JavaScript Object Notation](https://www.geeksforgeeks.org/javascript-json/) | It is [Extensible markup language](https://www.geeksforgeeks.org/xml-basics/) |
| It is based on JavaScript language. | It is derived from [SGML](https://www.geeksforgeeks.org/what-is-sgml/). |
| It is a way of representing objects. | It is a markup language and uses tag structure to represent data items. |
| It does not provides any support for namespaces. | It supports [namespaces](https://www.geeksforgeeks.org/javascript-namespace/). |
| It supports array. | It doesn’t supports [array](https://www.geeksforgeeks.org/array-data-structure/). |
| Its files are very easy to read as compared to XML. | Its documents are comparatively difficult to read and interpret. |
| It doesn’t use end tag. | It has start and end tags. |
| It is less secured. | It is more secured than JSON. |
| It doesn’t supports comments. | It supports comments. |
| It supports only [UTF-8 encoding](https://www.geeksforgeeks.org/understanding-character-encoding/). | It supports various encoding. |

Summer-time is here and so is the time to skill-up! More than 5,000 learners have now completed their journey from **basics of DSA to advanced level development programs** such as Full-Stack, Backend Development, Data Science. 