

API (Application Programming Interface):

To interact with applications or network devices, we can use an Application Programming Interface (API). An API is a software interface which allows other applications to communicate with our application. APIs are found almost everywhere. Amazon Web Services, Facebook, and home automation devices such as thermostats, refrigerators, and wireless lighting systems, all use APIs. They are also used for building programmable network automation. An API is software that allows other applications to access its data or services. It is a set of rules describing how one application can interact with another, and the instructions to allow the interaction to occur. The user sends an API request to a server asking for specific information and receives an API response in return from the server along with the requested information. XML and JSON are two of the most common data formats that are used with APIs. An API is similar to a waiter in a restaurant. A customer in a restaurant would like to have some food delivered to the table. The food is in the kitchen where it is cooked and prepared. The waiter is the messenger, similar to an API. The waiter (the API) is the person who takes the customer's order (the request) and tells the kitchen what to do. When the food is ready, the waiter will then deliver the food (the response) back to the customer.

