An IoT platform is a multi-layer technology that empowers clear provisioning, administration, and automation of connected devices inside the Internet of Things universe. It mostly associates your equipment, however various, to the cloud by utilizing adaptable network alternatives, enterprise level security instruments, and wide information handling powers. For designers, an IoT platform gives an arrangement of prepared to-utilize highlights that significantly accelerate improvement of uses for connected devices and additionally deal with versatility and cross- device compatibility.

In this manner, an IoT platform can be wearing diverse hats relying upon what you look like at it. It is ordinarily alluded to as middleware when we discuss how it associates remote devices to client applications (or different devices) and deals with every one of the cooperation between the equipment and the application layers. It is otherwise called a cloud enablement platform or IoT enablement platform to pinpoint its significant business esteem that is engaging standard gadgets with cloud-based applications and administrations. At long last, under the name of the IoT application enablement platform, it moves the focus to being a key device for IoT developers.

**Why do we need IoT?**

1. Single point for adjusting rules and data models for gathering the data and managing the communications
2. Easiness for including new business applications through normal interface
3. Creates normal accepted procedures for IoT solutions, particularly in characterizing conventions and organization processes
4. Scale availability and information surges independently from whatever is left of the organization, taking into account the other application to continue running
5. Adapt to existing work processes though state-of-the-art integration mechanisms
6. Unify Device Management abilities, improving corporate management
7. Separate raw data from business information, committing a BigData common for all the businesses
8. Add regular IoT functionalities, similar to edge identification, to all applications, implementing just once
9. Secures availability with devices in a different layer, simplifying
10. Centralizes and diminishes the information and team required to work and keep up device and connectivity issues

**What is the scope of IoT?**

Internet of Things can interface devices implanted in different frameworks to the internet. Whenever devices/objects can represent to themselves digitally, they can be controlled from anyplace. The network at that point causes us catch more information from more places, guaranteeing more methods for increasing proficiency and enhancing safety and IoT security.

IoT is a transformational drive that can enable organizations to enhance execution through IoT investigation and IoT Security to convey better outcomes. Organizations in the utilities, oil and gas, protection, producing, transportation, framework and retail areas can receive the benefits of IoT by settling on more educated choices, aided by the torrent of interactional and transactional data at their disposal.

**How IoT can help?**

IoT platforms can enable organizations to reduce cost through enhanced process proficiency, resource use and efficiency. With enhanced tracking of devices/objects using sensors and network, they can benefit from real-time insights and analytics, which would enable them to settle on more intelligent choices. The development and combination of information, processes and things on the internet would make such connections more appropriate and vital, creating more opportunities for people, organizations and ventures.