IBM CLOUD SERVICES

IoT Based Safety Gadget for Child Safety Monitoring and

NotificationTeamID: PNT2022TMID19077

PREREQUISITES

· IBM Watson IoT platform

IBM Watson IoT Platform is a managed, cloud-hosted service designed to make it simple to derive value fromyour Internet of Things devices. ST Microelectronics is an IBM Partner and provides development

platforms allowing users to develop applications with direct connection to the IBMW at son loT platform.

By using Watson IoT Platform, you can collect connected device data and perform analytics on realtime data. The IBM Watson IoT Platform is a fully managed, Cloud-hosted service that provides device management capabilities as well as data collection and management in a time series format.

The Lite service plan provides a free, light weight development environment toget you started with the connectivity capabilities of Watson IoT Platform.

NODE-REDSERVICE

Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways. It provides a browser-based editor that makes it easy to wire together flows using the wide range of nodes in the palette that can be deployed to its runtime in as in gleclick.

Node-RED is an open-source programming tool, for connecting hardware devices, APIs and online services creatively and easily.

Basic commands one should know to start using Node-Red

- target-Set or view the target URL and port like http://localhost:1880
- login- Log user into the target of the Node-RED admin API
- list- Listall of the installed nodes
- info- Display more information about the module or node
- enable- Enable the specified module or nodeset

- disable-Disable the specified module or nodeset
- search- Search forNode-RED module sto install
- install- Install the module from NPM to Node-RED
- remove-Remove the NPM module from Node-RED
- hash-pw-Create a password has tha tcan be used with the admin Authand http Nod eAuth settings

Cloud ant document database

IBM Cloudant is a fully managed JSON document database that offers independent serverless scaling ofthroughputcapacityandstorage.

A fully managed, distributed database optimized for heavy work load sandfast-growing web and mobile apps,IBM Cloud ant is available as an IBM Cloud® service with a 99.99% SLA.