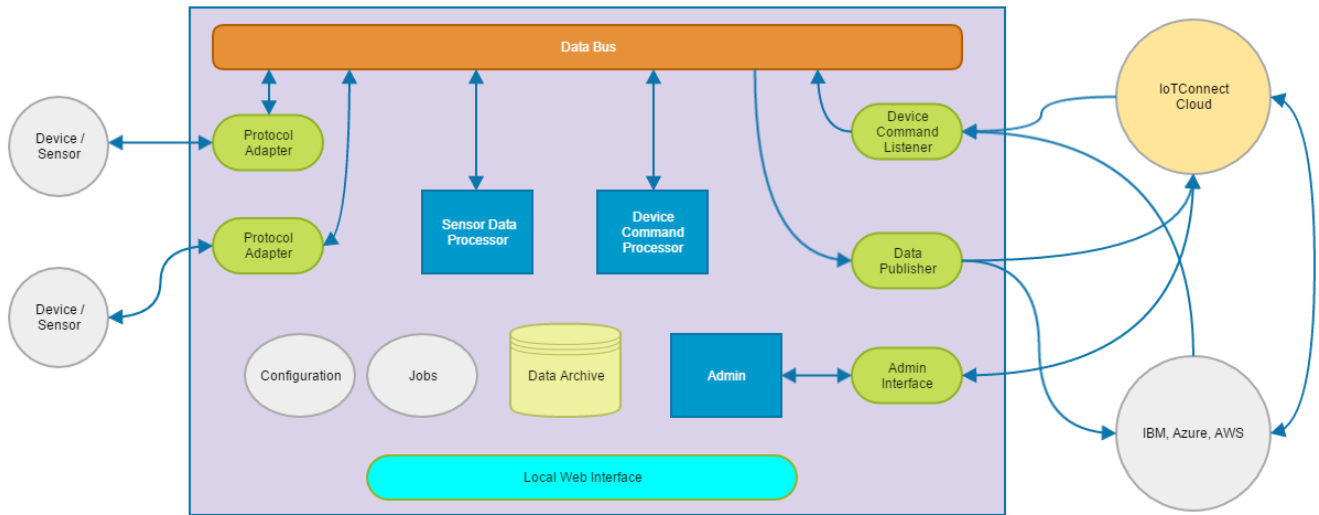


# Gateway General Architecture



## Android gateway design notes

- The gateway should be designed to run as an Android service.
- Protocol adapters should be designed as "plugins" for extensibility. An SDK should be provided for developers to build new plugins.
- There should be an SDK to help with building applications leveraging the gateway.
- There will not be a local web interface; however, we could develop an application (similar to MyIoT gateway) to configure and monitor the gateway.
- Leverage a lightweight open source database for data archive such as [Realm](#), [Couchbase Lite](#) or [UnQLite](#).
- Leverage a lightweight open source persistent queue library such as [Tape](#) or [Priority Job Queue](#).

## iOS gateway design notes

- The gateway should be designed to run in background mode
- Protocol adapters should be designed as "plugins" for extensibility. An SDK should be provided for developers to build new plugins
- There should be an SDK to help with building applications leveraging the gateway.
- There will not be a local web interface; however, we could develop an application (similar to MyIoT gateway) to configure and monitor the gateway.
- Leverage a lightweight open source database for data archive such as [Realm](#), [Couchbase Lite](#) or [UnQLite](#).
- Leverage a lightweight open source persistent queue library such as [EDQueue](#) or [IPOfflineQueue](#)

## .Linux gateway design notes

- The gateway should be lightweight and designed to run as a system service at startup. Spring framework might not be a good choice here
- Protocol adapters should be designed as "plugins" for extensibility. An SDK should be provided for developers to build new plugins.
- There should be a local web interface for configuring and monitoring the gateway.
- Leverage a lightweight open source NoSQL database for data archive such as [Couchbase Lite](#), [UnQLite](#), [MongoDB](#) or an SQL database such as [H2](#), [HSQLDB](#), [SQLite](#), [MySQL](#)
- Leverage a lightweight open source persistent queue component such as [Redis](#)