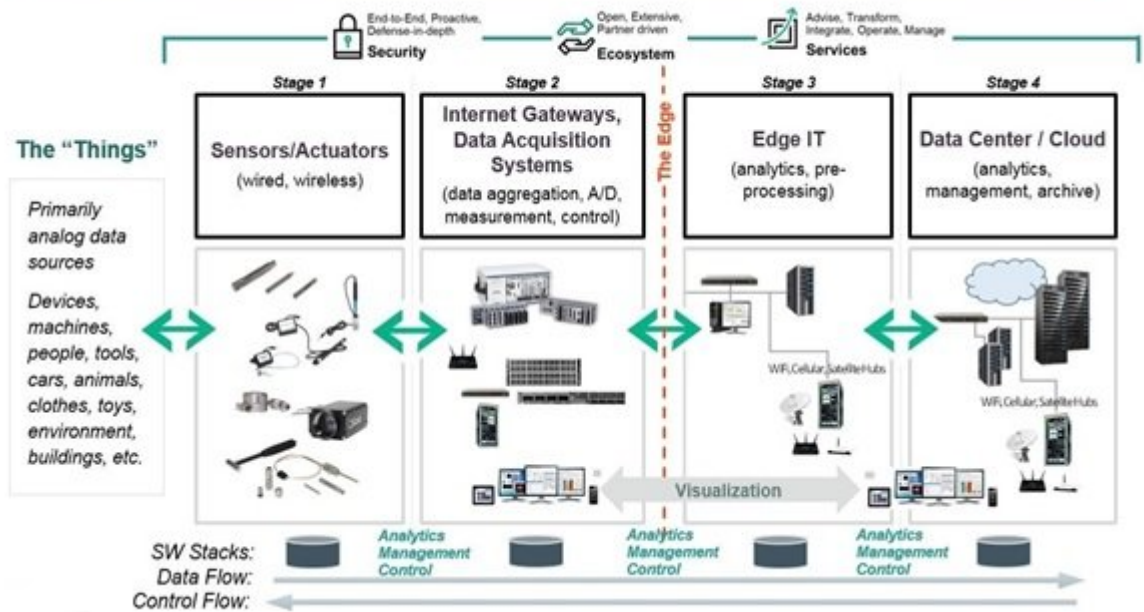


The 4 Stage IoT Solutions Architecture



The edge is a critical component in the IoT architecture, acting as the bridge between the physical world of sensors and actuators and the digital world of data processing and storage. It handles the initial data collection, processing, and transmission, ensuring that only relevant information is sent to the cloud for further analysis and management.

(Sensors/actuators) / Edge / Cloud

The architecture is designed to be scalable and secure, supporting a wide range of IoT applications. The 'Things' layer includes various types of devices, from simple sensors to complex machines. These devices communicate through gateways and data acquisition systems, which aggregate and preprocess the data. The edge IT layer then performs more advanced analytics and preprocessing before the data is sent to the cloud for long-term storage and management. The cloud layer provides the infrastructure for data analysis, reporting, and decision-making. The entire system is supported by a robust security framework and an open ecosystem of partners and services. The flow of data and control is bidirectional, allowing for real-time monitoring and control of the physical world through the IoT network.

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[https://www.shabakeh-mag.com/networking-technology/16558/%D8%A2%D8%B4%D9%86%D8:A7%DB%8C%DB%8C-%D8%A8%D8:A7-%D9%85%D8:B9%D9%85%D8:A7%D8%B1%DB%8C-%DA%86%D9%87%D8:A7%D8%B1-%D9%85%D8%B1%D8:AD%D9%84%D9%87%E2%80%8C%D8:A7%DB%8C-%DB%8C%DA%A9-%D8%B3%D8:A7%D9%85%D8:A7%D9%86%D9%87-%D9%85%D8:A8%D8:AA%D9%86%DB%8C-%D8:A8%D8%B1-%D8:A7%DB%8C%D9%86%D8:AA%D8%B1%D9%86%D8:AA-%D8:A7%D8%B4%DB%8C%D8:A7](https://www.shabakeh-mag.com/networking-technology/16558/%D8%A2%D8%B4%D9%86%D8%A7%DB%8C%DB%8C-%D8%A8%D8%A7-%D9%85%D8%B9%D9%85%D8%A7%D8%B1%DB%8C-%DA%86%D9%87%D8%A7%D8%B1-%D9%85%D8%B1%D8%AD%D9%84%D9%87%E2%80%8C%D8%A7%DB%8C-%DB%8C%DA%A9-%D8%B3%D8%A7%D9%85%D8%A7%D9%86%D9%87-%D9%85%D8%A8%D8%AA%D9%86%DB%8C-%D8%A8%D8%B1-%D8%A7%DB%8C%D9%86%D8%AA%D8%B1%D9%86%D8%AA-%D8%A7%D8%B4%DB%8C%D8%A7)