QTS CloudRamp™ Use Case

Enterprise required public cloud capabilities integrated with highly secure colocation hosting to support latency-sensitive IoT applications

Background

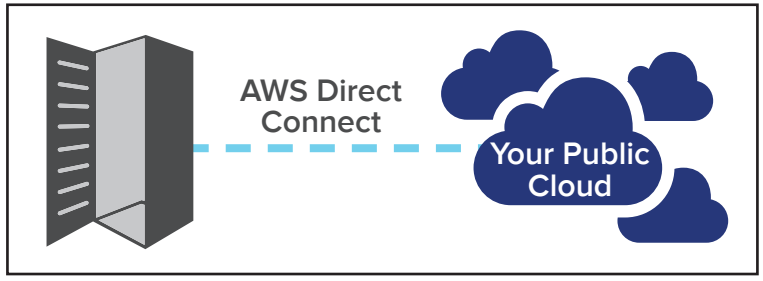
IoT companies are characterized as those with new applications and services requiring the ability to communicate beyond traditional devices i.e. desktop, laptop computers, and smartphones to a diverse range of devices that utilize embedded technology to communicate and interact with the external environment, all via the Internet.

Problem

The success of IoT applications and services typically involves content delivery and the ability to connect devices and users with content as fast as possible. This requires devices collecting, aggregating, and analyzing large amounts of data from diverse locations, indexing and storing the data, and autonomously flowing the data between other devices. Speed is impacted by latency challenges based on geographic proximity of the content with the users.

The solution lies in the ability to leverage proximity to the customers' data in a distributed fashion and supported by centralized and integrated compute in an agile public cloud environment.

The enterprise contracted with cloud and colocation providers attempting to solve the problem but experienced pain from many angles, including: misconfiguration issues, sudden lack of IT resources, the need to migrate to AWS cloud with limited expertise, and extensive use of traditional IT platforms supporting critical legacy apps.



Solutioning

QTS worked as a trusted partner with the enterprise to deploy QTS CloudRamp™ - as the flexible foundation of their hybrid IT journey and clear path to migrate additional applications to AWS. QTS CloudRamp, featuring AWS Direct Connect, deployed from four geostrategic locations, significantly improved performance of the client's latency sensitive applications. With a variety of distributed processes at the edge, QTS' colocation allows data to be collected, filtered and cleansed at the edge, before it goes to the cloud for additional processing, analysis and storage.

Outcome

By deploying CloudRamp the client was able to provide a high availability, low latency architecture underpinning its edge strategy and IoT services. As a monthly service, CloudRamp is budgeted and accounted for as a flexible operational expense and included in their monthly AWS bill.