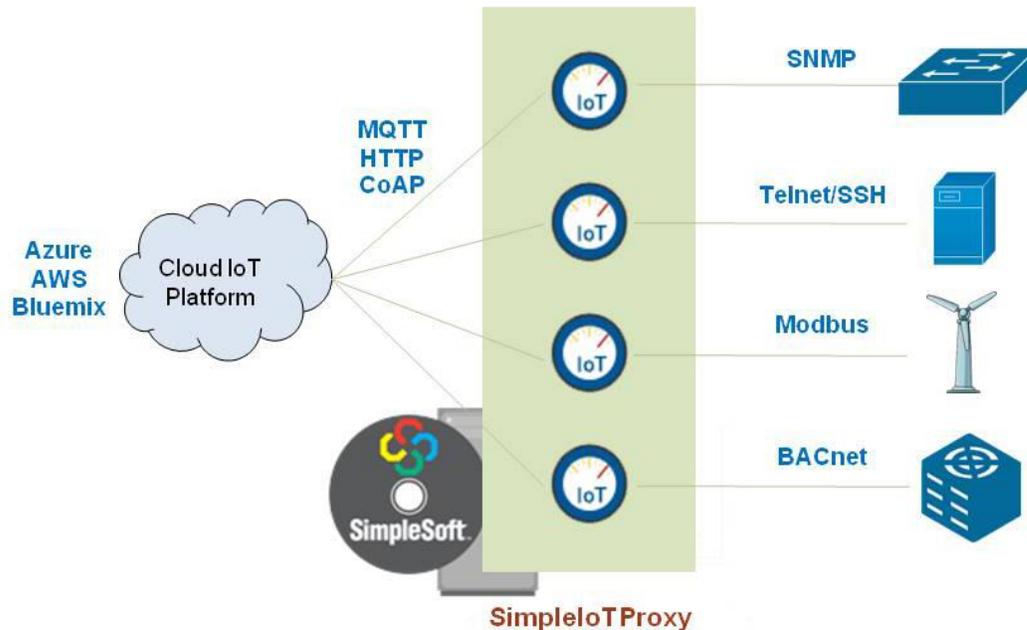


Enabling Devices for IoT



Overview

SimpleIoTProxy is an easy to deploy, software based, Internet of Things (IoT) proxy that gathers information from devices supporting older protocols and forwards it to newer IoT platforms running sophisticated data analytics. It quickly creates hundreds of IoT enabled shadow device contexts, all on just one computer, where each shadow device context, maps to a real device supporting an older management protocol.

SimpleIoTProxy supports many common IoT protocols like **MQTT**, **CoAP**, and **HTTP/s** to create shadow device contexts that interface with popular IoT platforms like **Azure IoT**, **Amazon AWS**, and **IBM Bluemix**, on the north bound side, and provides data to them. On the south bound side, the device contexts talk many older management protocols like **SNMP**, **Telnet/SSH**, **Modbus**, and **BACnet** to gather data from existing real devices to turn them into IoT enabled devices. **IoT solution vendors** can use SimpleIoTProxy to gather data from existing customer infrastructure devices and feed that data to their AI/Machine Learning based data analytics algorithms without waiting for the existing infrastructure to become IoT enabled. The shadow device contexts support receiving actuation messages from the IoT platforms and forwarding them to the associated real device using the appropriate south bound side request protocol. Both IPv4 and IPv6 device contexts are supported.

Applications and Benefits

Existing infrastructure devices can be quickly turned into IoT enabled devices without having to change them, and their information gathered to run data analytics for applications like predictive maintenance. Critical events like traps and syslog events can also be forwarded to IoT platforms. **SimpleIoTProxy** also provides an actuation pathway to take action based on the results of data analytics for controlling devices. Using the proxy enables data to be gathered from both newer IoT devices and older infrastructure devices to create a more complete, un-fragmented view for the data analytic software.

Features

- SimpleIoTProxy software solution can run on physical or virtual machines.
- Sample interface scripts are provided which can be used as templates for customization. Also includes "learners" to facilitate the creation of scripts.
- A web-based, graphical, and command line utility available for easy configuration.

System Requirements

- 64bit Linux



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Simplifying
IoT
Management

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