Abstract: Recent advances in cloud computing and wireless communications have enabled new means by which to process and respond to data in real time. Robust enterprise-scale platforms built for the Internet of Things (IoT) integrate these advances to connect internet-enabled sensors and actuators with powerful web-based tools to not only capture and store measurements, but also immediately process and visualize data. While powerful and scalable, these platforms have yet to be widely adopted by the hydrologic community, where the value of real-time data impacts both scientists and decision makers.