Soluciones inteligentes integrando SharePoint con loT



Speaker: Oscar Polanco | @opolancoh

Oscar Polanco | @opolancoh 😏

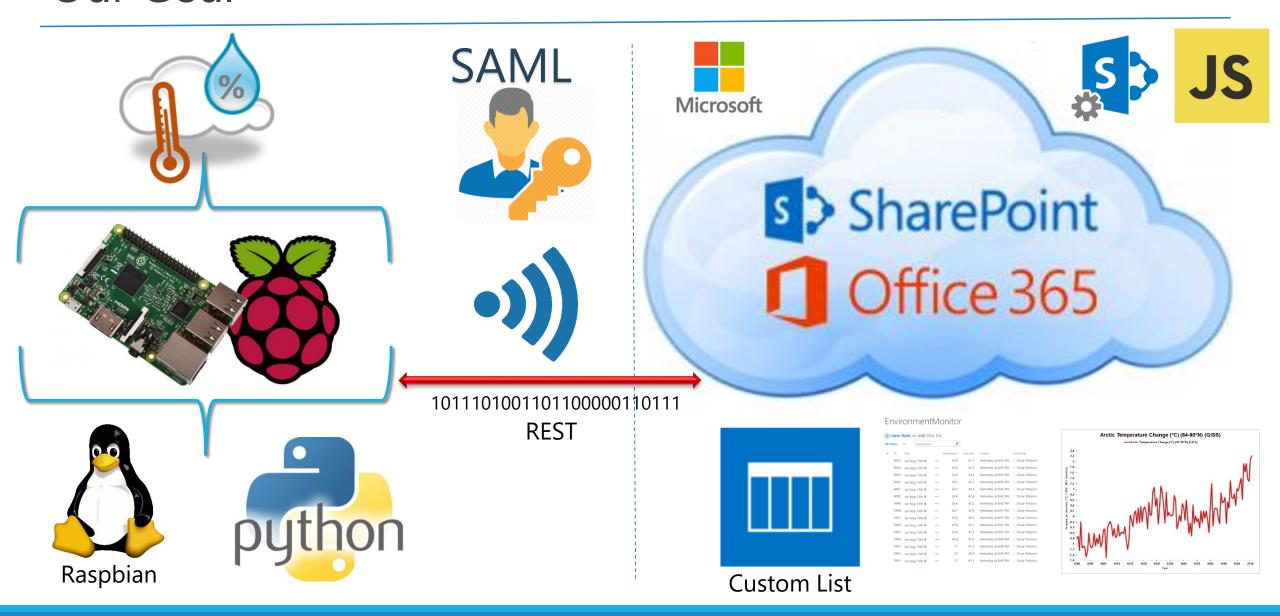
- Electronic Engineer
- Professional Cloud Solution Architect
- Microsoft Certified Solutions Developer



Passionate in architecting, configuring, and deploying enterprise implementations for the SharePoint product line and the Microsoft technology stack, including next generation product stack. Efficiency in managing a successful digital transformation as they adopt the tools of a digital business.



Our Goal



Smart solutions integrating Office 365 and IoT

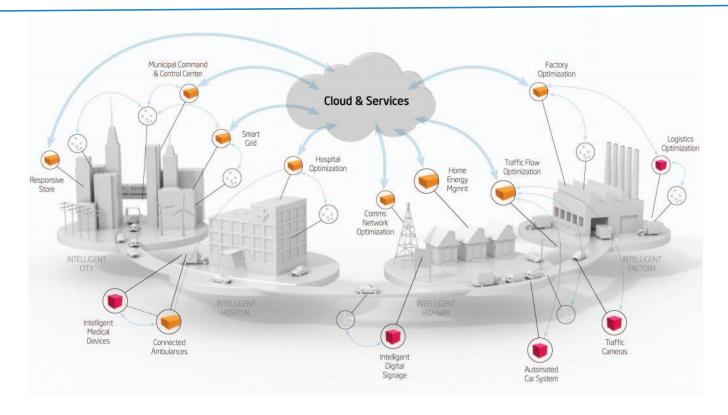
03 | IoT: Azure IoT Suite

04 | IoT: Solutions Architecture

01 | IoT: Introduction



Internet Of Things

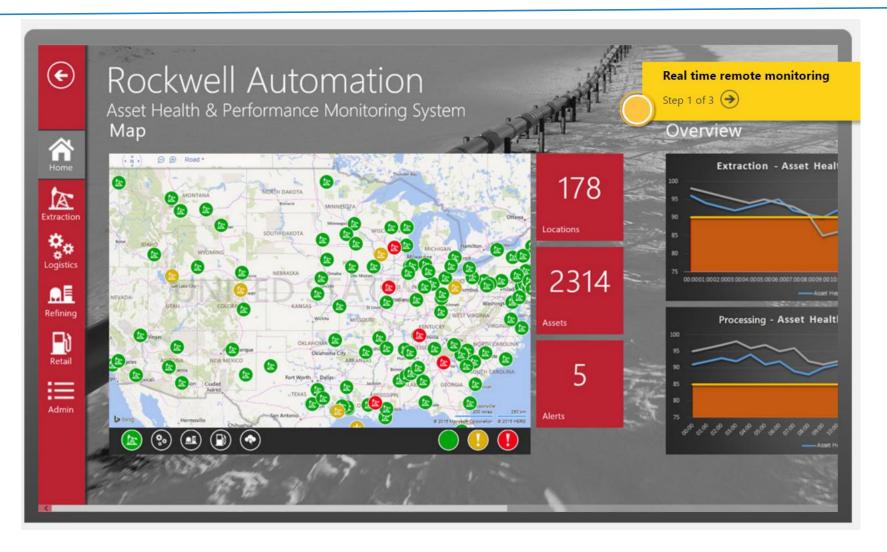


The internet of things is the network of physical objects or "things" embedded with electronics, software, sensors and connectivity to enable it to achieve greater value by exchanging data with internet and/or other connected devices.

02 | IoT: Examples, case studies



Example 1: Predictive maintenance



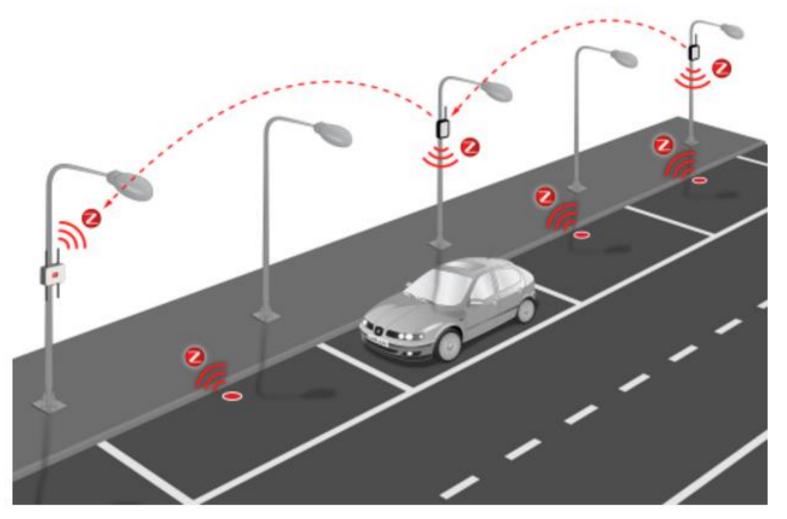
http://www.microsoftazureiotsuite.com/demos/predictivemaintenance

Example 2: Remote monitoring



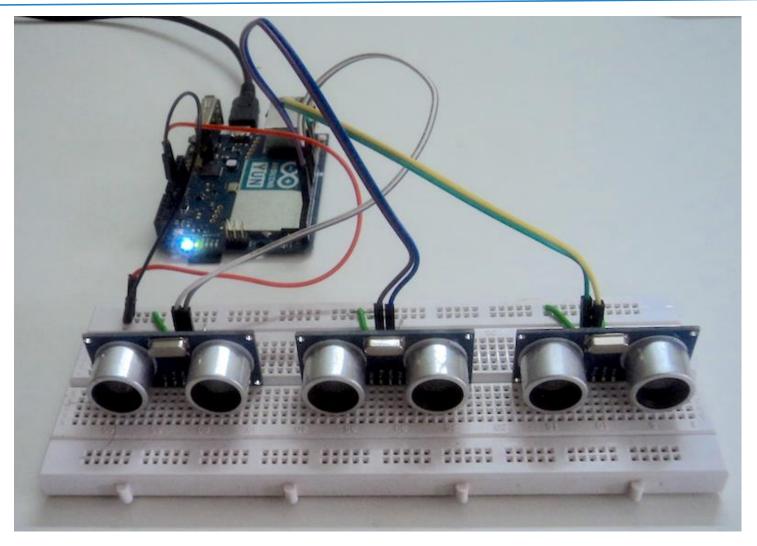
http://www.microsoftazureiotsuite.com/demos/remotemonitoring

Example 3: Smart Parking



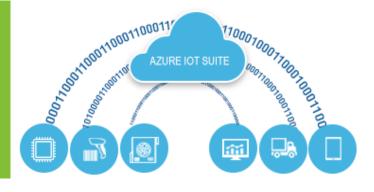
http://www.libelium.com/smart_parking

Example 4: IoT Enabled Smart Parking Meter

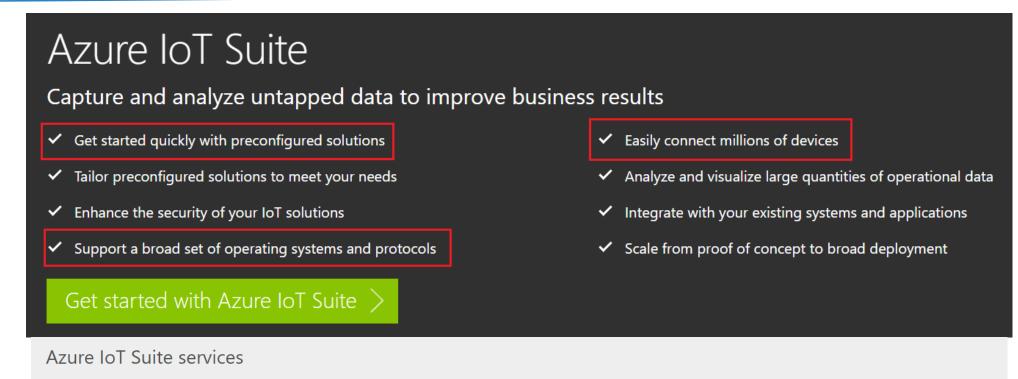


https://developer.ibm.com/bluemix/2016/01/06/iot-enabled-smart-parking-meter/

03 | IoT: Azure IoT Suite



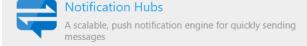
Azure IoT Suite







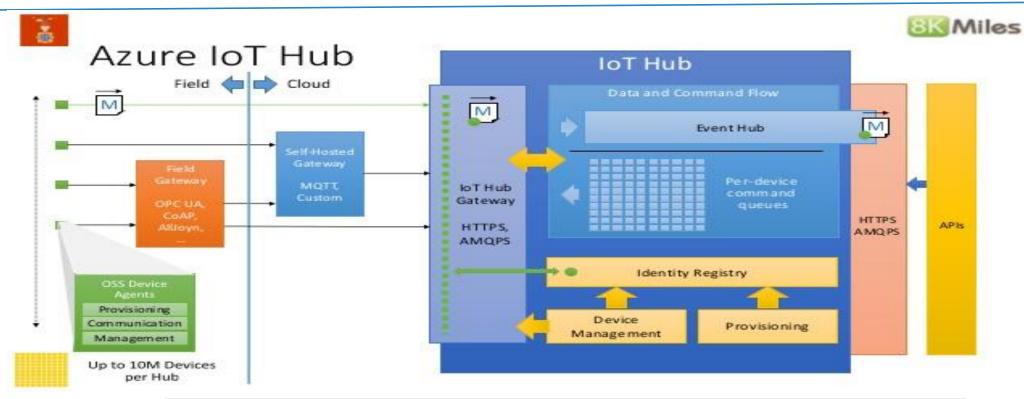






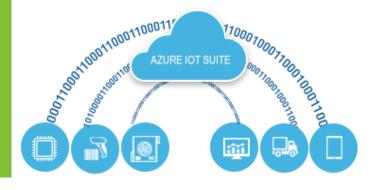
https://azure.microsoft.com/en-us/suites/iot-suite

Azure IoT Hub

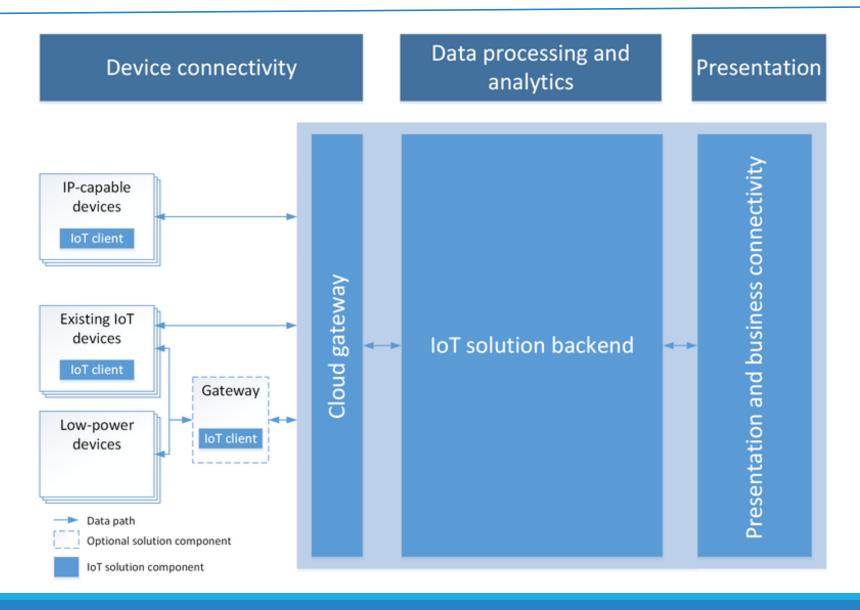


EDITION TYPE	PRICE (PER MONTH)	TOTAL NUMBER OF MESSAGES/DAY
Free	Free	8,000
S1	\$50	400,000
S2	\$500	6,000,000
S3	\$5,000	300,000,000

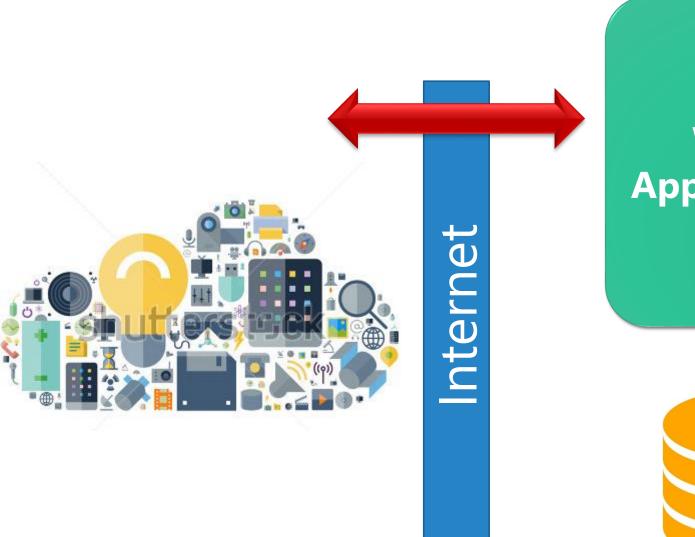
04 | IoT: Solutions Architecture



IoT Solution Architecture

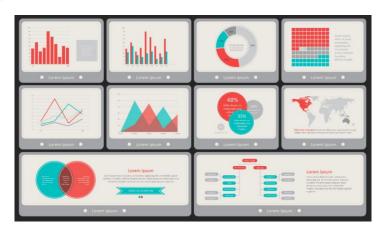


IoT Solution Architecture



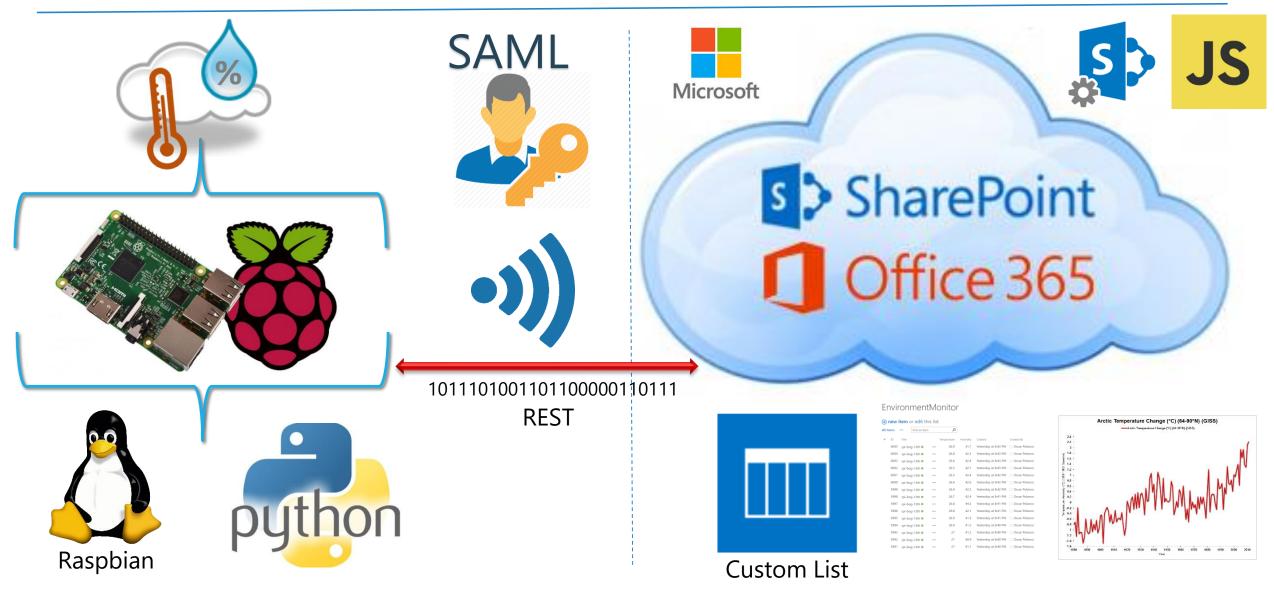
Web Application

- Business Logic
- Authentication
- Authorization

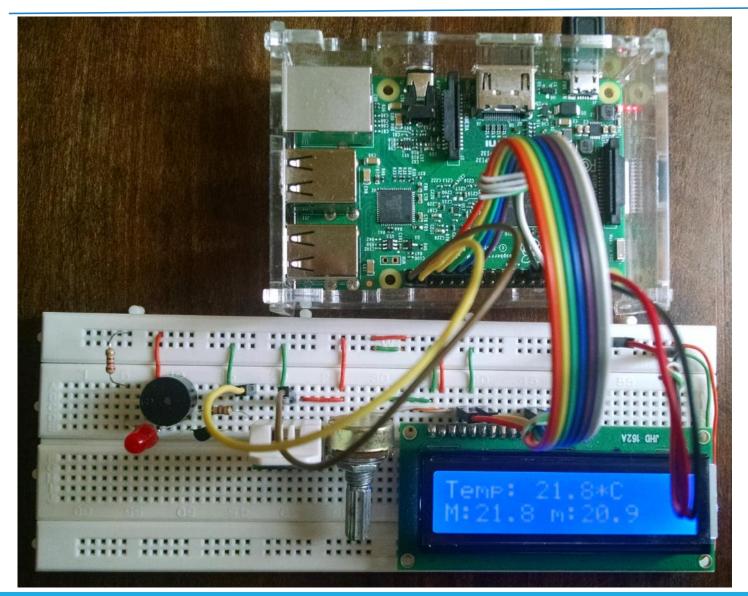


05 | O365-loT integration overview

Office 365 (SharePoint Online) – IoT Integration



Electronic device



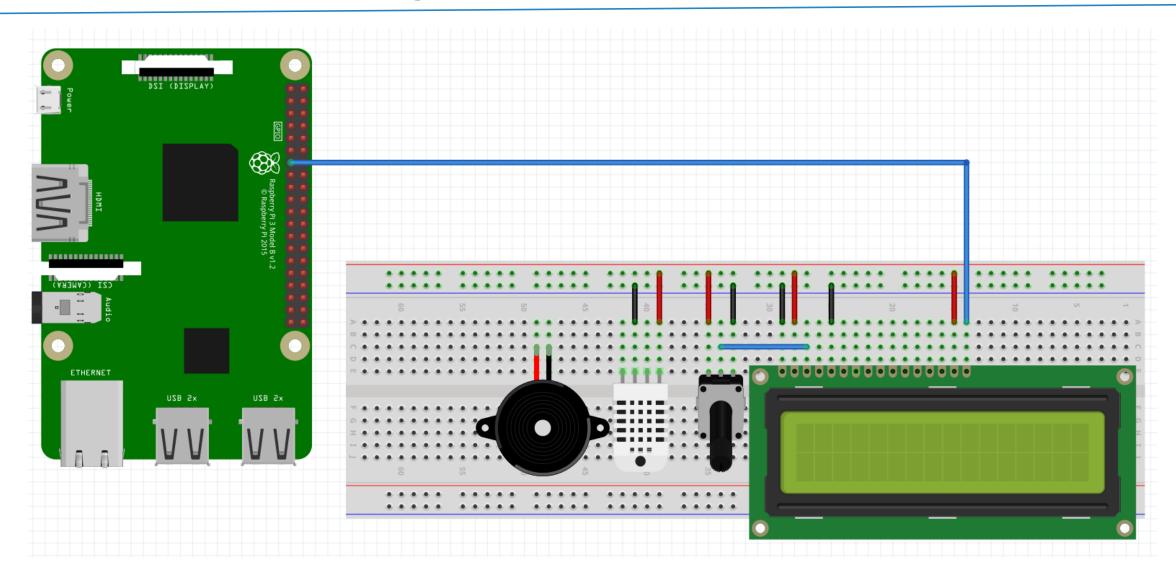


LCD 16x2



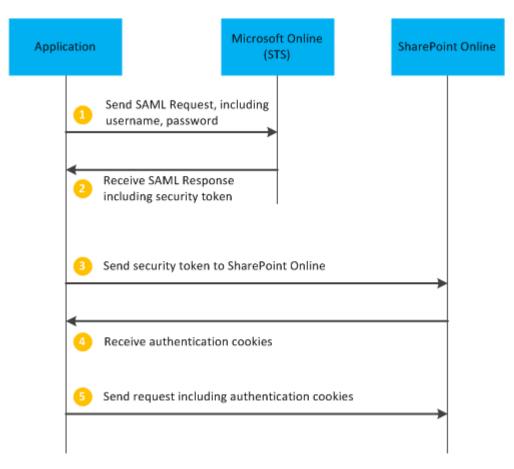
Temperature, Humidity Sensor

Electronic circuit diagram

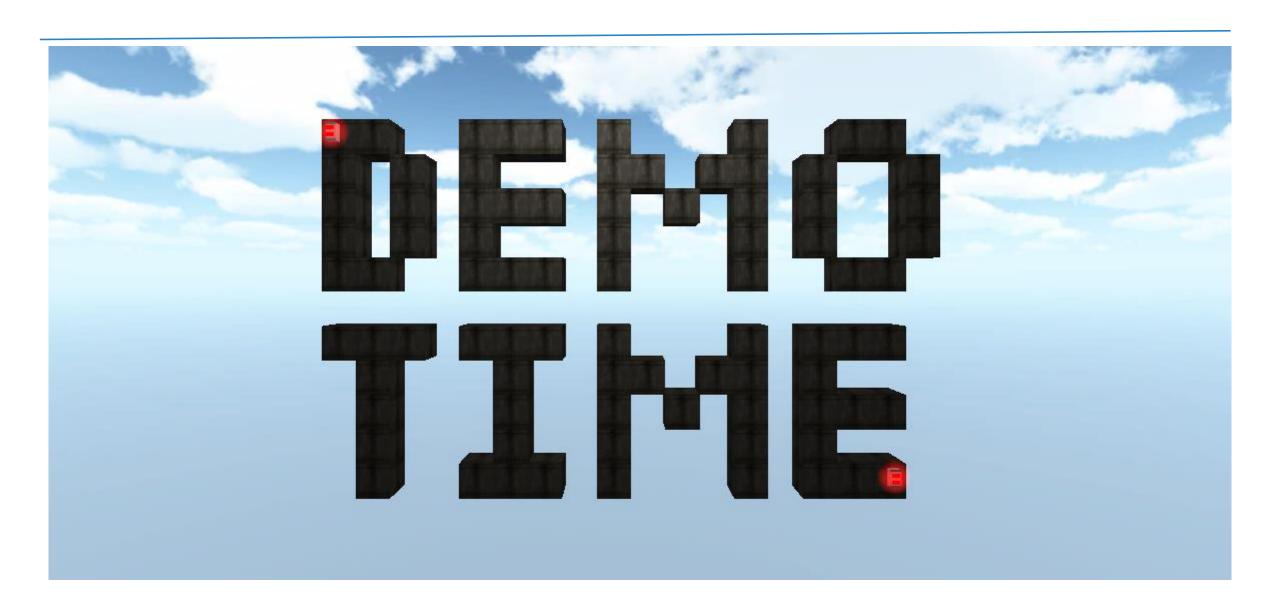


User authentication - SAML

SharePoint Online Remote Authentication



http://paulryan.com.au/2014/spo-remote-authentication-rest https://github.com/vgrem/Office365-REST-Python-Client





Gracias

@opolancoh | opolancoh@gmail.com

