

¡Tenemos una nueva misión para ti!

Debes simular la creación de una IOTHUB en el portal de Azure y agregar dos dispositivos que se encuentren conectados y envíen mensajes dentro de una empresa que transfiere mercancía de una sucursal a otra.

Asimismo, debes entregar un informe de la métrica de cada dispositivo y capturas de pantalla de la creación de los mismos, junto con capturas de pantalla de la prueba de envío y recepción de mensajes.



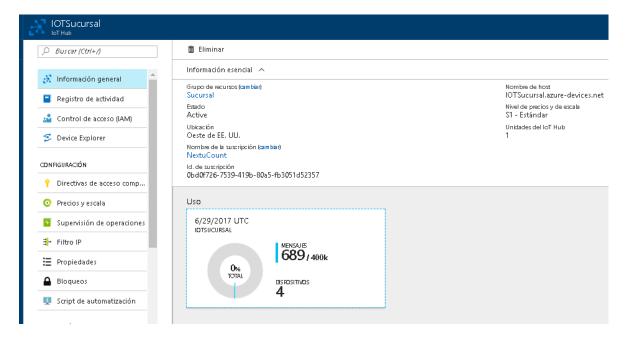


Solución

• Instalar Node.js.

Desde la consola de comando de Node.js usar el comando npm install -g iothub-explorer.

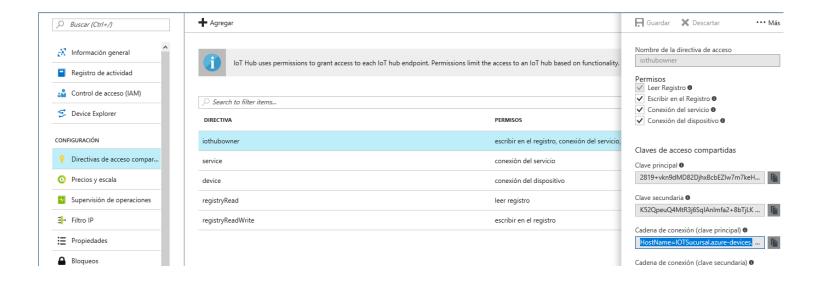
- Instalar Device Explorer
- Creación de cuenta IOT en el portal







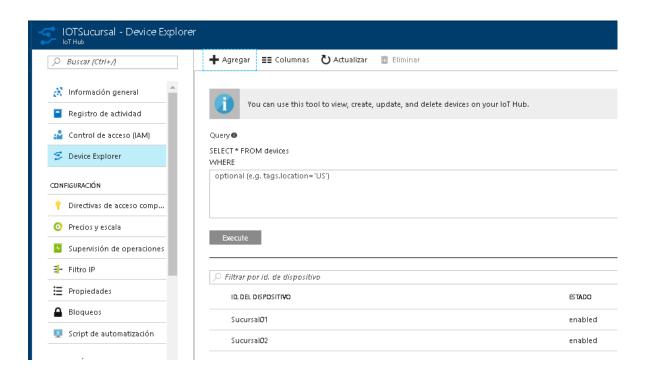
• Copiar cadena de conexión principal







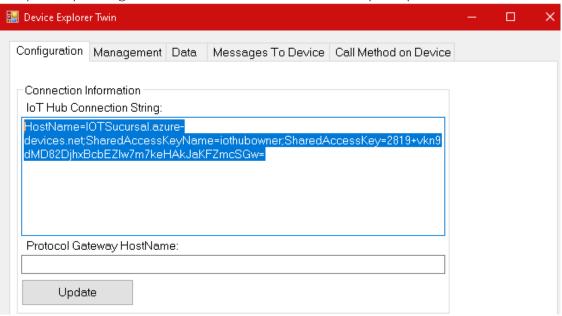
• Creación de los dos dispositivos







• Instalación del DeviceExplorer y configuración con la cadena de conexión principal







• Monitoreo del dispositivo

🖳 Device Explorer Twin	-		×
Configuration Management Data Messages To Device Call Method on Device			
Monitoring			
Event Hub: IOTSucursal			
Device ID: Sucursal01		V	
Start Time: 06/29/2017 14:24:41			
Consumer Group: \$Default			
Monitor Cancel Clear			
Event Hub Data			
Receiving events			





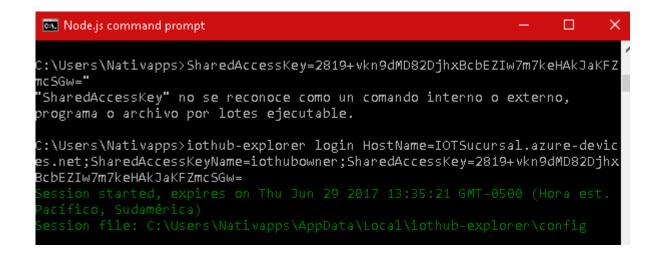
• Instalación desde la consola de node.js de IOT explorer

```
Mode.js command prompt
                                                                  Your environment has been set up for using Node.js 6.9.5 (x64) and npm.
C:\Users\Nativapps>npm install -g iothub-explorer
npm WARN deprecated node-uuid@1.4.8: Use uuid module instead
C:\Users\Nativapps\AppData\Roaming\npm\iothub-explorer -> C:\Users\Nativa
pps\AppData\Roaming\npm\node_modules\iothub-explorer\iothub-explorer.js
C:\Users\Nativapps\AppData\Roaming\npm
 -- iothub-explorer@1.1.13
 +-- azure-event-hubs@0.0.8
     -- amqp10@3.5.0
         -- readable-stream@2.3.3
          +-- safe-buffer@5.1.1
          `-- string_decoder@1.0.3
     +-- buffer-builder@0.2.0
     +-- node-int64@0.4.0
     `-- stately.js@1.3.0
    +-- azure-iot-common@1.1.3
     -- uuid@3.1.0
   - azure-iot-common@1.1.8
     -- crypto@0.0.3
    +-- azure-iot-http-base@1.1.8
    +-- azure-storage@2.2.0
         -- hash-base@3.0.4
       -- readable-stream@2.0.6
        `-- string decoder@0.10.31
      +-- underscore@1.8.3
```





• Conexión a IOTHUB con nuestra cadena de conexión







• Envío de los mensajes





• Confirmación de entrega con DeviceExplorer

🔛 Device Explorer Twin	_		×
Configuration Management Data Messages To Device Call Method on Device	9		
Monitoring			
Event Hub: OTSucursal			
Device ID: Sucursal01		V	
Start Time: 06/29/2017 14:24:41			
Consumer Group: \$Default			
Monitor Cancel Clear			
Event Hub Data			
29/06/2017 2:32:47 p. m.> Device: [Sucursal01], Data: [Reporte_Entrega_Completed 29/06/2017 2:32:48 p. m.> Device: [Sucursal01], Data: [Reporte_Entrega_Completed 29/06/2017 2:32:49 p. m.> Device: [Sucursal01], Data: [Reporte_Entrega_Completed 29/06/2017 2:32:50 p. m.> Device: [Sucursal01], Data: [Reporte_Entrega_Completed 29/06/2017 2:32:51 p. m.> Device: [Sucursal01], Data: [Reporte_Entrega_Completed 29/06/2017 2:32:52 p. m.> Device: [Sucursal01], Data: [Reporte_Entrega_Completed 29/06/2017 2:32:53 p. m.> Device: [Sucursal01], Data: [Reporte_Entrega_Completed 29/06/2017 2:32:55 p. m.> Device: [Sucursal01], Data: [Reporte_Entrega_Completed 29/06/2017 2:32:59 p. m.> Device: [Sucursal01], Data: [Reporte_Entrega_Completed 29/06/2017 2:32:59 p. m.> Device: [Sucursal01], Data: [Reporte_Entrega_Completed 29/06/2017 2:33:00 p. m.> Device: [Sucursal01], Data: [Reporte_Entrega_Completed 29/06/2017 2:33:01 p.			^





🖳 Device Explorer Twin	- 0	×	Node.js command prompt
Configuration Management Data Messages To Device Call Method on Device			C:\Users\Nativapps>iothub-explorer simulate-device Sucursal01send Reporte_En
Monitoring			Error: UnauthorizedError: Unauthorized
Event Hub: IOTSucursal			c:\Users\Nativapps>iothub-explorer login HostName=IOTSucursal.azure-devices.net :SharedAccessKevName=iothubowner:SharedAccessKev=2819+vkn9dMD82DinxBcbEZIw7m7ke
Device ID: Sucursal01 Start Time: 06/29/2017 14:24:41	ſ	▽	#HAKJaKFZmcSGw= Session started, expires on Thu Jun 29 2017 15:31:21 GMT-0500 (Hora est. Pacífi co, Sudamérica) session file: C:\Users\Nativapps\AppData\Local\iothub-explorer\config
Consumer Group: \$Default			C:\Users\Nativapps>iothub-explorer simulate-device Sucursal01send Reporte_En trega_Completado Message #0 sent successfully Message #1 sent successfully Message #2 sent successfully
Event Hub Data [29/06/2017 2:32:47 p. m.> Device: [Sucursal01] Data: [Reporte_Entrega_Completado]		^	Message #3 sent successfully Message #4 sent successfully Message #5 sent successfully Message #6 sent successfully Message #7 sent successfully
29/06/2017 2:32:48 p. m > Device: [Sucursal01]. Data [Reporte_Entrega_Completado] 29/06/2017 2:32:49 p. m > Device: [Sucursal01]. Data [Reporte_Entrega_Completado] 29/06/2017 2:32:50 p. m > Device: [Sucursal01]. Data [Reporte_Entrega_Completado] 29/06/2017 2:32:52 p. m > Device: [Sucursal01]. Data [Reporte_Entrega_Completado] 29/06/2017 2:32:55 p. m > Device: [Sucursal01]. Data [Reporte_Entrega_Completado] 29/06/2017 2:32:55 p. m > Device: [Sucursal01]. Data [Reporte_Entrega_Completado] 29/06/2017 2:32:55 p. m > Device: [Sucursal01]. Data [Reporte_Entrega_Completado] 29/06/2017 2:32:55 p. m > Device: [Sucursal01]. Data [Reporte_Entrega_Completado] 29/06/2017 2:32:55 p. m > Device: [Sucursal01]. Data [Reporte_Entrega_Completado] 29/06/2017 2:32:55 p. m > Device: [Sucursal01]. Data [Reporte_Entrega_Completado] 29/06/2017 2:32:55 p. m > Device: [Sucursal01]. Data [Reporte_Entrega_Completado] 29/06/2017 2:32:55 p. m > Device: [Sucursal01]. Data [Reporte_Entrega_Completado] 29/06/2017 2:32:55 p. m > Device: [Sucursal01]. Data [Reporte_Entrega_Completado] 29/06/2017 2:32:55 p. m > Device: [Sucursal01]. Data [Reporte_Entrega_Completado] 29/06/2017 2:32:55 p. m > Device: [Sucursal01]. Data [Reporte_Entrega_Completado] 29/06/2017 2:32:55 p. m > Device: [Sucursal01]. Data [Reporte_Entrega_Completado] 29/06/2017 2:32:55 p. m > Device: [Sucursal01]. Data [Reporte_Entrega_Completado] 29/06/2017 2:32:55 p. m > Device: [Sucursal01]. Data [Reporte_Entrega_Completado]			Message #8 sent successfully Message #0 sent successfully Message #10 sent successfully Message #11 sent successfully Message #12 sent successfully Message #13 sent successfully Message #14 sent successfully Message #16 sent successfully Message #17 sent successfully Message #18 sent successfully

