

The REST APIs for IoT Hub offer programmatic access to the device and messaging services, as well as the resource provider, in IoT Hub. You can access messaging services from within an IoT service running in Azure, or directly over the Internet from any application that can send an HTTP/HTTPS request and receive an HTTP/HTTPS response.

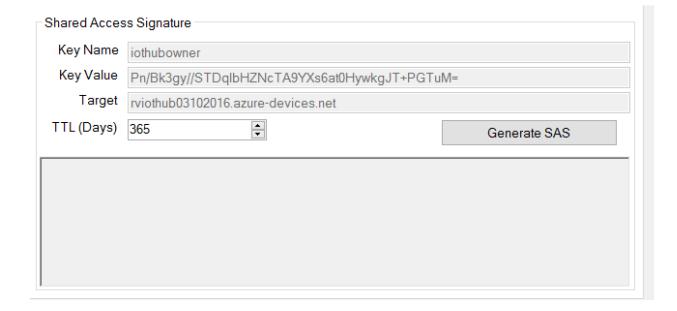
Get the REST APIs from: <a href="https://msdn.microsoft.com/en-us/library/azure/mt548492.aspx">https://msdn.microsoft.com/en-us/library/azure/mt548492.aspx</a>

Below is a Test Suite Created Using Chrome Postman Client. Add the client from Chrome Web store. These example with work using Firefox REST Client.

IoTHub REST APIs will require Authorization header. This will require generating SAS token. For these examples Device Explorer was used to generate the SAS token. Below is the link on how to use the device explorer.

https://github.com/Azure/azure-iot-sdks/blob/master/tools/DeviceExplorer/doc/how to use device explorer.md

Generate a SAS Token with a TTL using the device explorer and use the Shared Access Signature (SAS Token) to connect to IoTHub.





Test Suite contains the following tests



Replace rviothub03102016 with you own IoTHub

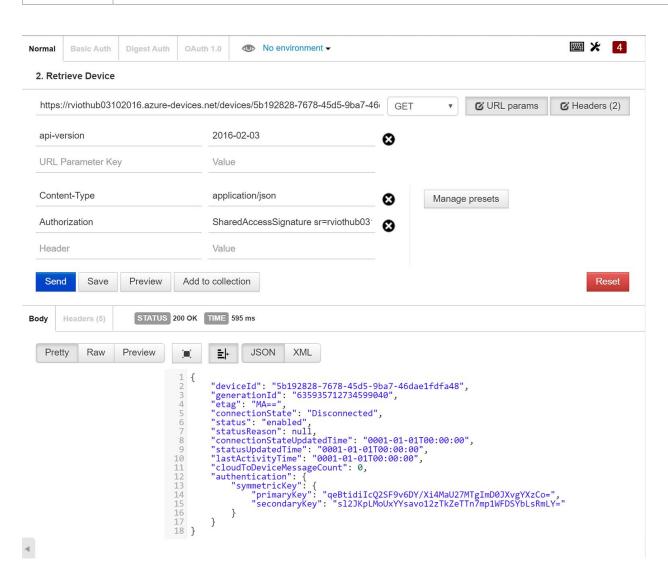


Method	Request URI
PUT	https://{IoTHubName}.azure-devices.net/devices/{deviceId}?api-version={api-version}

## 1. Create Device https://rviothub03102016.azure-devices.net/devices/5b192828-7678-45d5-9ba7-46 PUT **©** URL params ☑ Headers (2) api-version 2016-02-03 3 **URL Parameter Key** Value Content-Type application/json Manage presets Authorization SharedAccessSignature sr=rviothub03 3 Header Value x-www-form-urlencoded JSON ▼ deviceId: "5b192828-7678-45d5-9ba7-46dae1fdfa48" Send Save Preview Add to collection STATUS 200 OK TIME 970 ms Headers (5) Pretty Raw Preview **JSON** XML



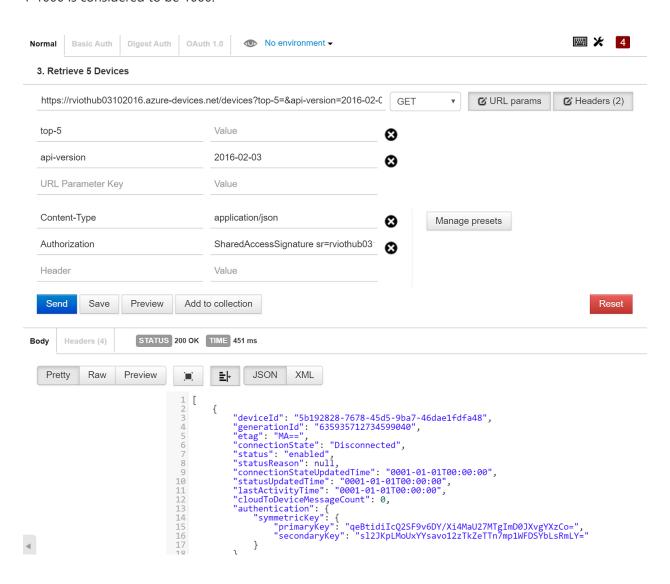
Method	Request URI
GET	https://{IoTHubName}.azure-devices.net/devices/{deviceId}?api-version={api-version}





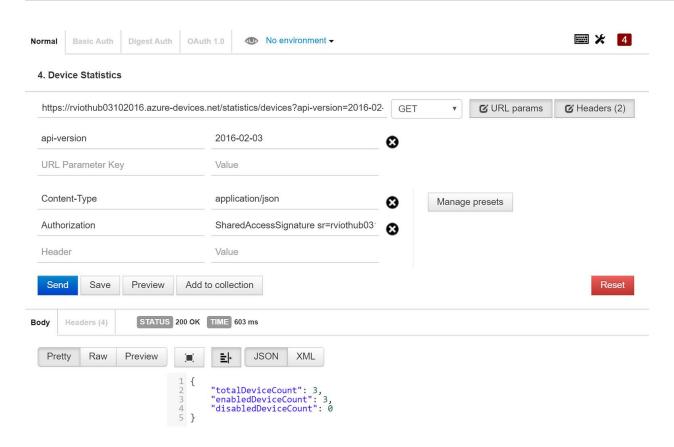
Method	Request URI
GET	https://{IoTHubName}.azure-devices.net/devices?top={top}&api-version={api-version}

Where top specifies the maximum number of device identities to return. Any value outside the range of 1-1000 is considered to be 1000.



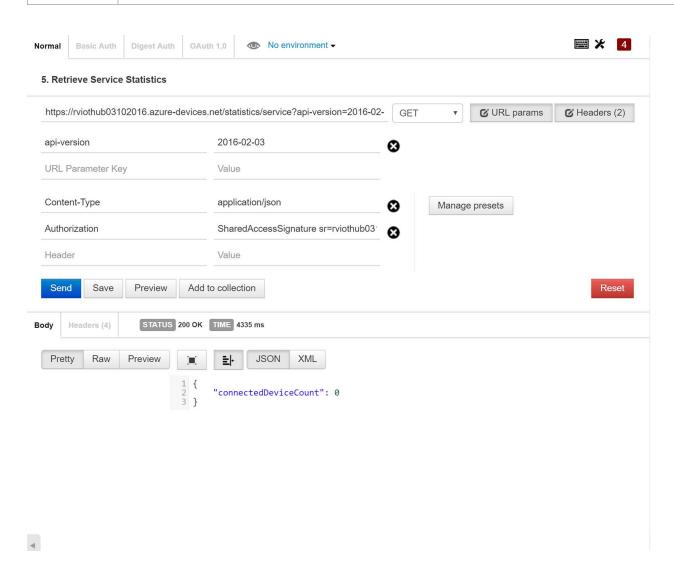


Method	Request URI
GET	https://{IoTHubName}.azure-devices.net/statistics/devices?api-version={api-version}



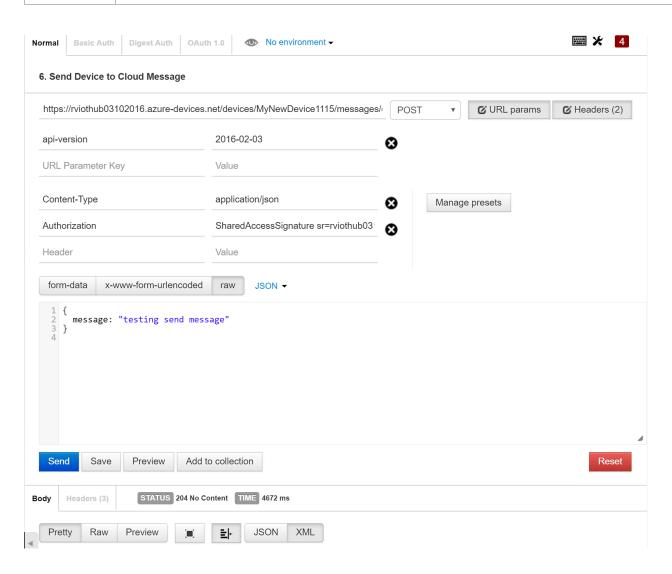


Method	Request URI
GET	https://{IoTHubName}.azure-devices.net/statistics/service?api-version={api-version}



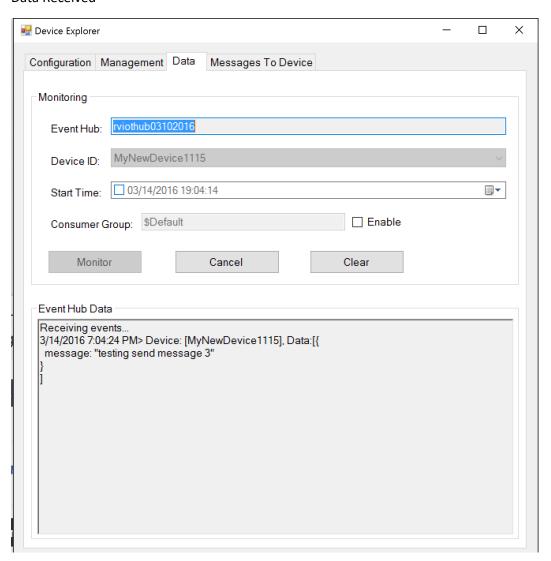


Method	Request URI
POST	https://{loTHubName}.azure-devices.net/devices/{deviceId}/messages/events?api-version={api-version}



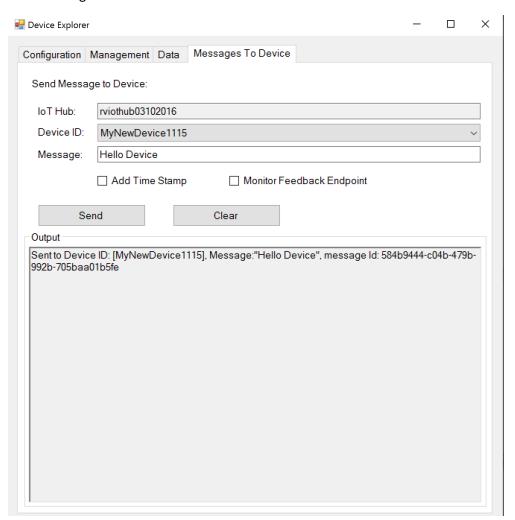


#### **Data Received**





## Send Message to Device





Method	Request URI
GET	https://{loTHubName}.azure-devices.net/devices/{deviceld}/messages/devicebound?api-version={api-version}

