

Exosite Device API

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Overview

I have a very good idea for connecting device to the Internet to do something interesting, but I have no idea how to build the whole system.

Possible Solutions

Build up servers

I need to know how to setup a web server(e.g. apache), database(e.g. MongoDB), Hadoop, Spark, etc.

Then, I need to learn how to create all applications by myself.

Use cloud services

I can rent cloud services from AWS, GCP, etc.

However, I still need to learn how to create all applications by myself.

Use Exosite cloud

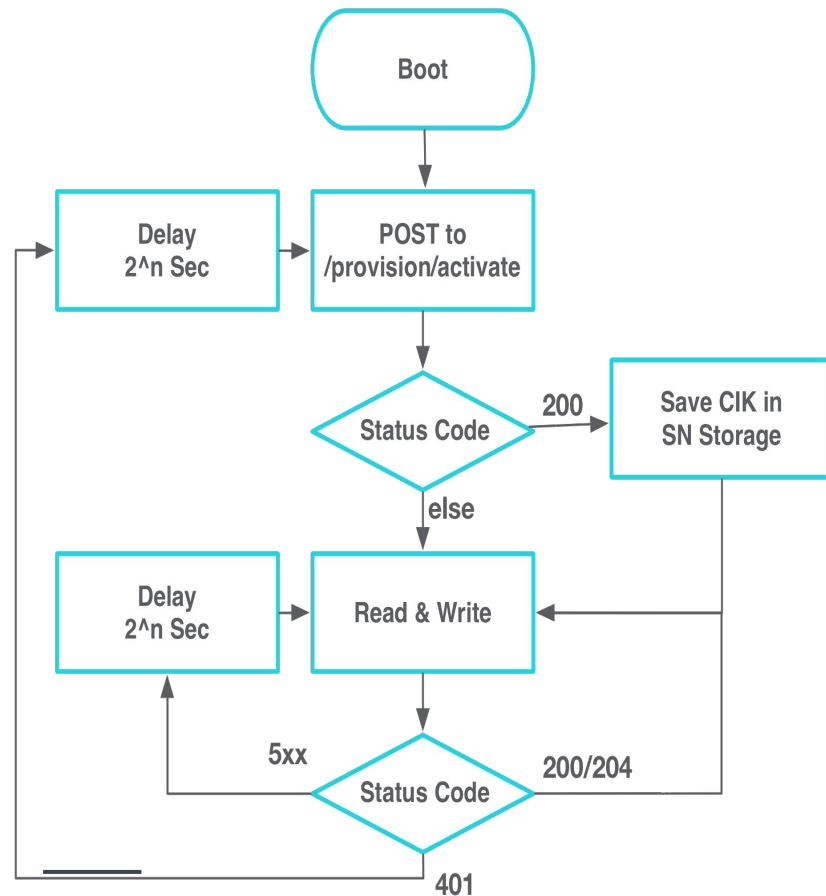
I just need to know how to use Exosite API(device API, RPC API)

Exosite can help me to manage the device data.

Today's Topic: How to use Exosite Device API

<http://docs.exosite.com>

Device API flowchart



Device API command

- Provisioning procedure
 - CIK
 - The unique identifier of the device in the Exosite cloud platform.
 - 40 bytes string data
 - “5d176e8ac18bb956077dab451348424475f36163”
 - Activate command
 - Vendor (Product ID)
 - microchip
 - Model (Product ID)
 - iot1001
 - Serial Number (Identifier)
 - 00:12:34:ab:cd:e1

Device API command

- Time series data procedure
 - <http://docs.exosite.com/http/>
 - Read
 - Read data from the cloud. (HTTP GET)
 - Write
 - Write data to the cloud. (HTTP POST)
 - Long polling
 - Subscribe the data from the cloud
 - ...
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A Simple Example

https://github.com/cgm7487/hackntu_exosite_simulator