

# 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

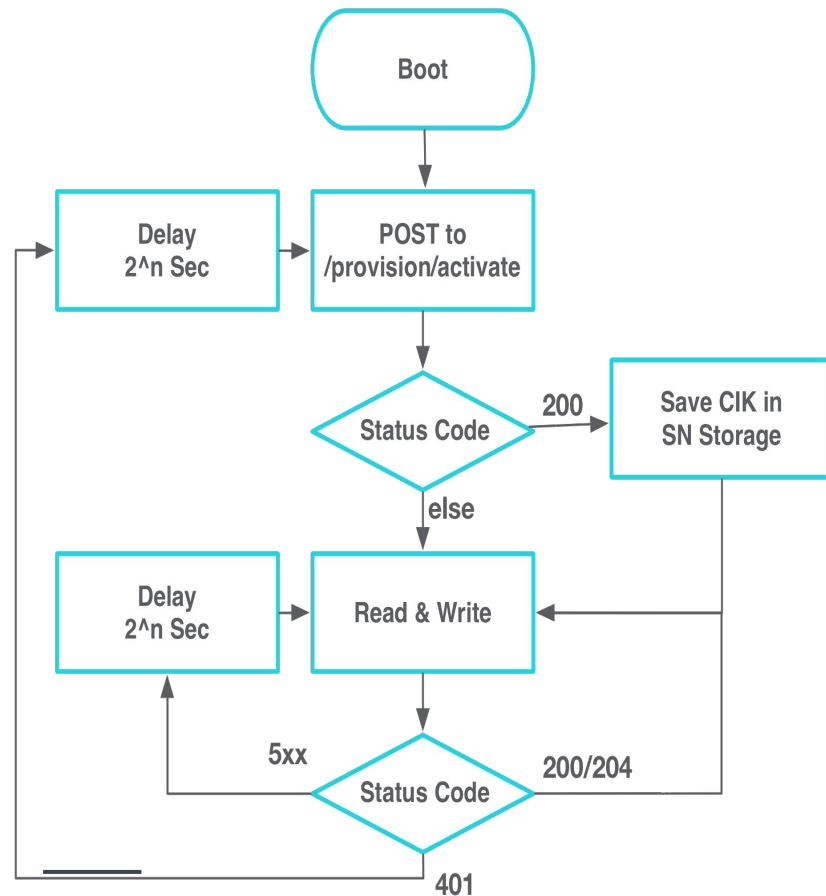
I just need to know how to use Exosite API(device API, RPC API)

Exosite can help me to manage the device data.

# Today's Topic: How to use Exosite Device API

<https://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
  - Activate command
    - Vendor (Product ID)
    - Model (Product ID)
    - Serial Number (Identifier)
- Time series data procedure
  - Read
  - Write
  - Long polling
  - ...

# A Simple Example

[https://github.com/cgm7487/hackntu\\_exosite\\_simulator](https://github.com/cgm7487/hackntu_exosite_simulator)