



# EXOSITE

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.



IDEA



Internet of Things

# 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

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## DEVELOPER DOCUMENTATION AND LINKS

Welcome to Exosite's developer documentation where we provide reference to our products, documented APIs, and links to any other articles, libraries, and reference code.

## TUTORIALS

- [Introduction To Device Connectivity](#) - Start at the basics of device connectivity to Exosite's Platform
- [Getting Started with Portals Evaluation Web Dashboard Tool](#) - Using a free account, get a device added and start sending data
- [Getting Started using an Arduino YÚN](#) - Get a device added and start sending data
- [Videos](#) - Video tutorials covering various topics

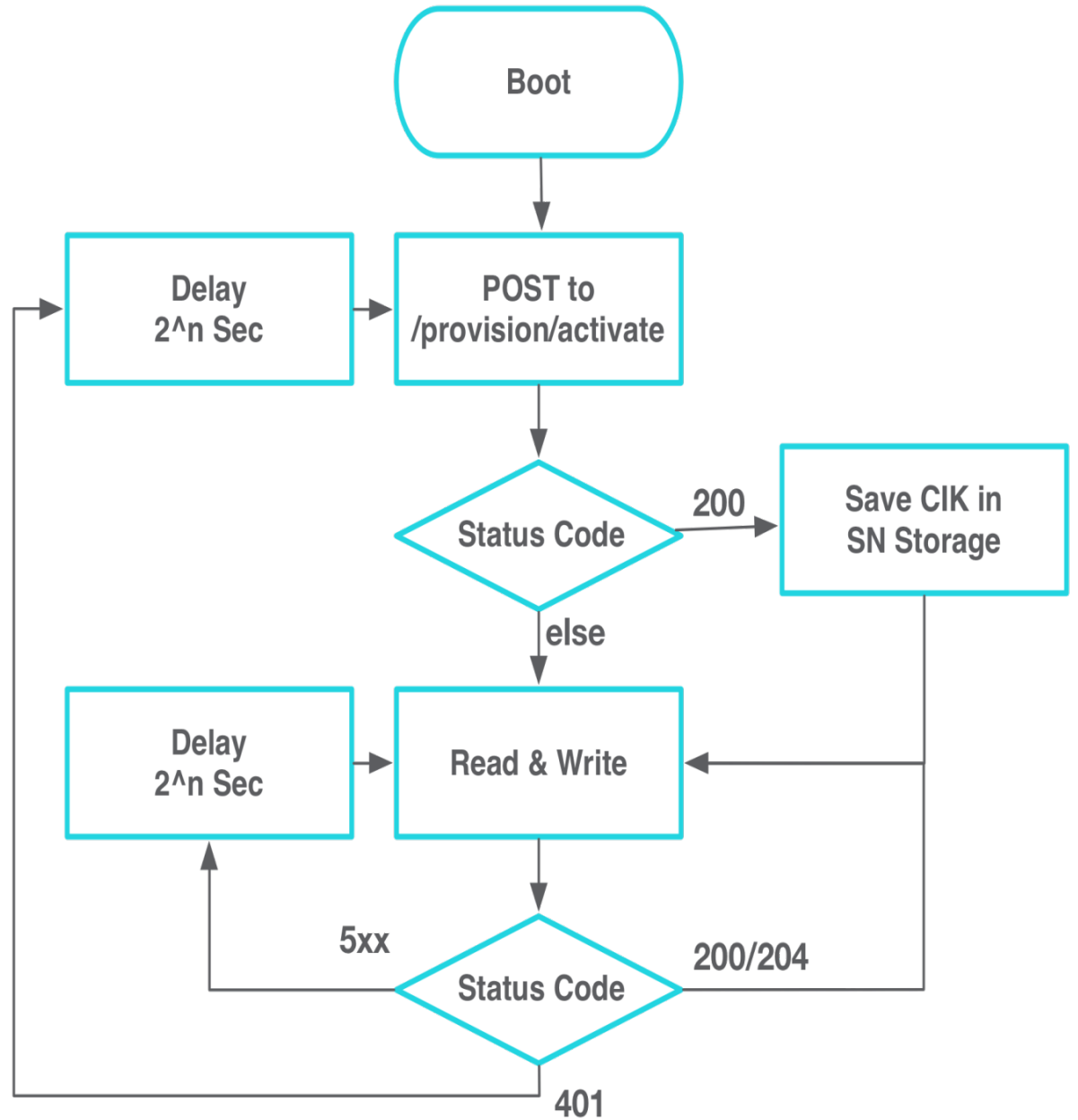
## ONE PLATFORM

Exosite's IoT Platform for Connected Products

- [One Platform Reference Guide](#)
- [Provisioning Articles](#)
- [Lua Scripting Reference and API](#) - the One Platform Lua scripting environment



# 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

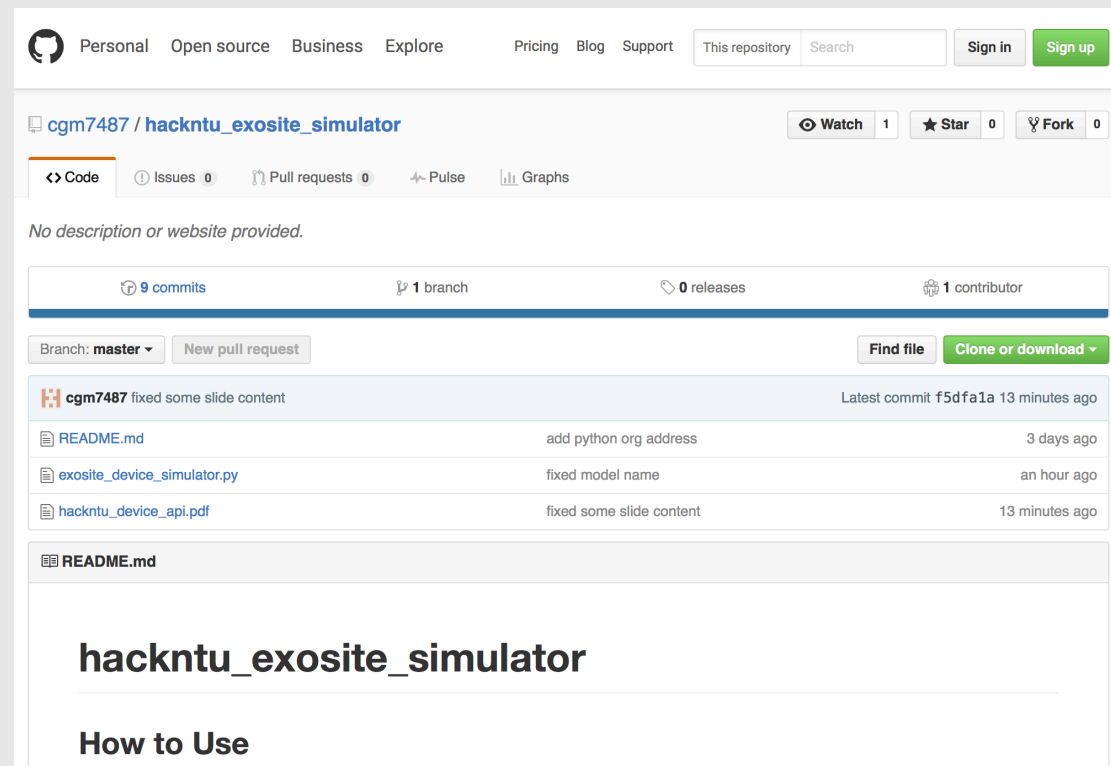
# DEVICE API COMMAND

- 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



# A SIMPLE EXAMPLE

HTTPS://GITHUB.COM/CGM7487/HACKNTU\_EXOSITE\_SIMULATOR



The screenshot shows the GitHub interface for the repository 'hackntu\_exosite\_simulator' by user 'cgm7487'. The repository has 1 watch, 0 stars, and 0 forks. It contains 9 commits, 1 branch, 0 releases, and 1 contributor. The latest commit is 'cgm7487 fixed some slide content' from 13 minutes ago. The repository files listed are README.md, exosite\_device\_simulator.py, and hackntu\_device\_api.pdf. The README.md file is expanded, showing the title 'hackntu\_exosite\_simulator' and the section 'How to Use'.

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cgm7487 / hackntu\_exosite\_simulator Watch 1 Star 0 Fork 0

<> Code Issues 0 Pull requests 0 Pulse Graphs

No description or website provided.

9 commits 1 branch 0 releases 1 contributor

Branch: master New pull request Find file Clone or download

**cgm7487** fixed some slide content Latest commit f5dfa1a 13 minutes ago

README.md	add python org address	3 days ago
exosite_device_simulator.py	fixed model name	an hour ago
hackntu_device_api.pdf	fixed some slide content	13 minutes ago

**README.md**

## hackntu\_exosite\_simulator

### How to Use

