Change the World with IoT and the Peer Web

Matthew Podwysocki
@mattpodwysocki
https://github.com/mattpodwysocki/open-iot-2016
Principal SDE
Open Sourcerer
@mattpodwysocki
github.com/mattpodwysocki
github.com/mpodwysocki
Let's Talk IoT...
The Things Are Everywhere...
Let’s take on big challenges...
Re-invent manufacturing...
Change the face of farming...
Help in times of crisis...
Enable Local Discovery...
Secure Synchronization...
But the most important “thing” is...
How do we build it?
Always Bet on JS
Your device as a server...
We want Node to run on EVERY device...
Node.js on ChakraCore

This project enables Node.js to optionally use the ChakraCore JavaScript engine. This project is still work in progress and not an officially supported Node.js branch. Please refer to the original PR.

How it works

To enable building and running Node.js with the ChakraCore JavaScript engine, a V8 API shim (ChakraShim) is created on top of the ChakraCore runtime hosting API (JSRT). ChakraShim implements the most essential V8 APIs so that the underlying JavaScript engine change is transparent to Node.js and other native addon modules written for V8.

A rebuild node.exe and native addon modules with ChakraCore is required for this to work.

Issues

Please report all issues related to Node-ChakraCore on this separate issue page.

Prebuilt Node binaries

You can download and install prebuilt Node-ChakraCore from here.

https://github.com/nodejs/node-chakracore
WiFi Shoplist
By Oguz Bastemur
Open iTunes to buy and download apps.

Description
This application makes your shopping list available over WiFi. So, others can contribute to your shopping list from the devices with browser support.

WiFi Shoplist Support ›

Screenshots

WiFi Shoplist
Oguz Bastemur  Productivity

Everyone

This app is compatible with all of your devices.

Add to Wishlist
Install

We can easily deploy it...
Keep Data in Sync...
Enabling Communication...
Security? TLS + Public Keys...
How do we exchange identities without making our users hate us?

http://www.goland.org/coinflippingforthali/
We want a Bluetooth-like experience…
Live or Die by CI
What can I build?
PRIVACY IS NOT A CRIME
“Technical identity systems must only reveal information identifying a user with the user’s consent.”

Kim Cameron’s Law # 1
“The solution that discloses the least amount of identifying information and best limits its use is the most stable long-term solution.”

Kim Cameron’s Law # 2
“Digital identity systems must be designed so the disclosure of identifying information is limited to parties having a necessary and justifiable place in a given identity relationship.”

Kim Cameron’s Law # 3
“A universal identity system must support both “omni-directional” identifiers for use by public entities and “unidirectional” identifiers for use by private entities, thus facilitating discovery while preventing unnecessary release of correlation handles.”

Kim Cameron’s Law # 4
“A universal identity system must channel and enable the inter-working of multiple identity technologies run by multiple identity providers.”

Kim Cameron’s Law # 5
“The universal identity metasystem must define the human user to be a component of the distributed system integrated through unambiguous human-machine communication mechanisms offering protection against identity attacks.”

Kim Cameron’s Law # 6
“The unifying identity metasystem must guarantee its users a simple, consistent experience while enabling separation of contexts through multiple operators and technologies.”

Kim Cameron’s Law # 7
Isn’t this privacy stuff a bit of nonsense?
The right to own your own data…
Help Save Peer to Peer on Android!

http://www.goland.org/thalilocalp2psurvivingmarshmallow/
Oh the places we’ll go...
$ jx npm install thali
MAKE P2P WEB GREAT AGAIN

#MakeThePeerWebGreatAgain