Internet in a Box

For Education

Tim Moody

What is Internet in a Box?

- A small Wifi hotspot to make Internet content available where Internet access is unavailable, or limited due to cost or other restrictions.
- A collective of people who develop that device
- An aggregate of free/open software and content
- Used in both Medical and Educational settings

A Brief History

One Laptop per Child
XS School Server
2007

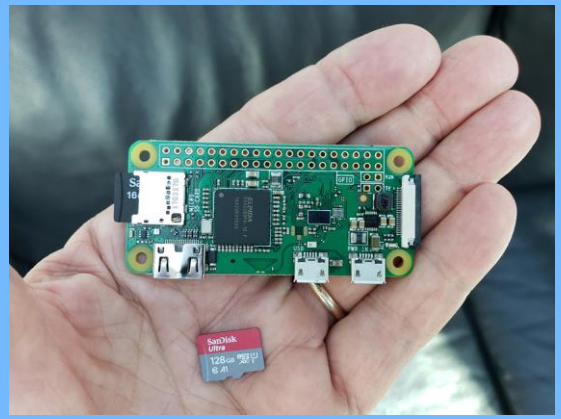
XSCE
Community Version of XS
2012

Internet in a Box
Braddock Gaskill
2012

Two Projects Merge
IIAB
2016

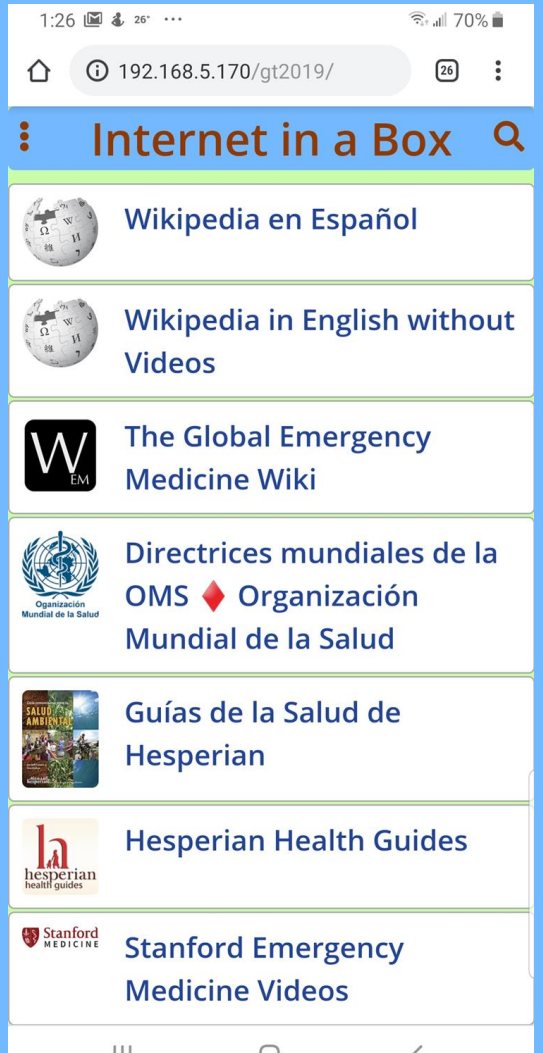
What does it look like?

- Often based on Raspberry Pi
- ‘W’ for low cost deployments
- Full model 3 B + and new 4
- Also Intel NUC for more capacity



How do I access it?

- Wifi is Internet in a Box
- Usually no password
- Many devices go directly to home page
- For others put http://box.lan in browser



What’s in the Box?

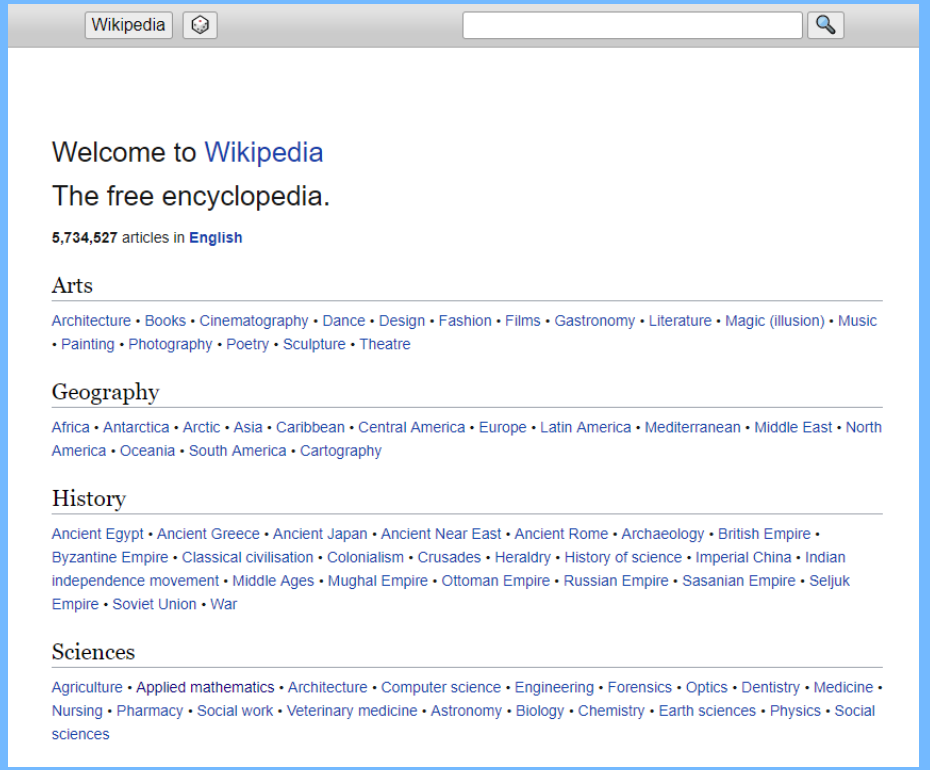
- Depends on the curator, but commonly for the Medical version
- The Medical Wikipedia in various languages
- The full Wikipedia in whatever languages are needed
- The Global Emergency Medicine Wiki
- CDC Web Site in English and Spanish
- Material from the WHO
- Other content packages from OER2G0

What Services are Available?

- Medical version only uses Kiwix
- For Education version there are many more.

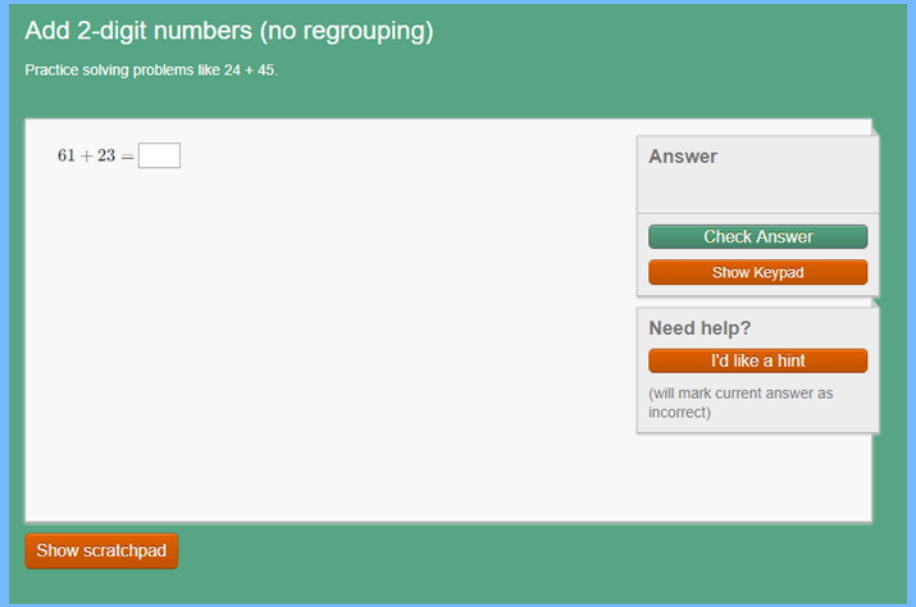
Kiwix

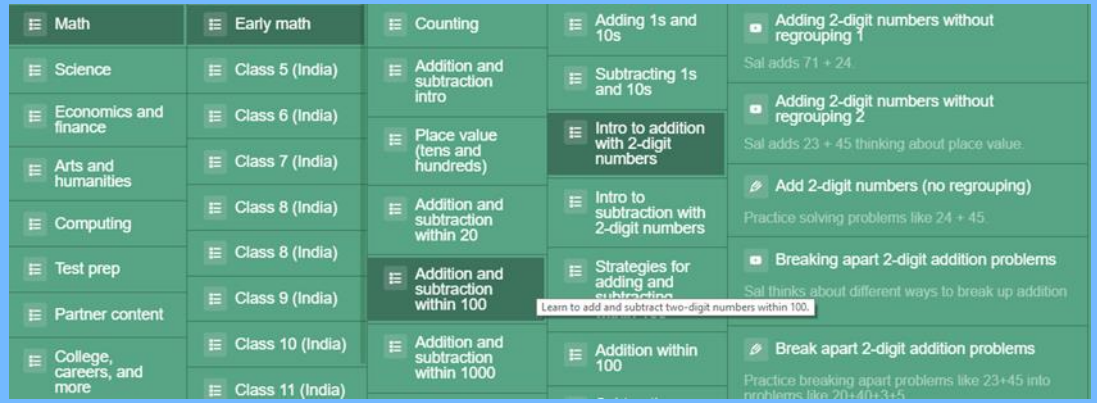
- Used by Everyone
- Main use is Wikipedia and other Wikis
- Searchable
- ZIM Files: proprietary compression
- English Wikipedia in 80G
- Source for downloading



KA Lite

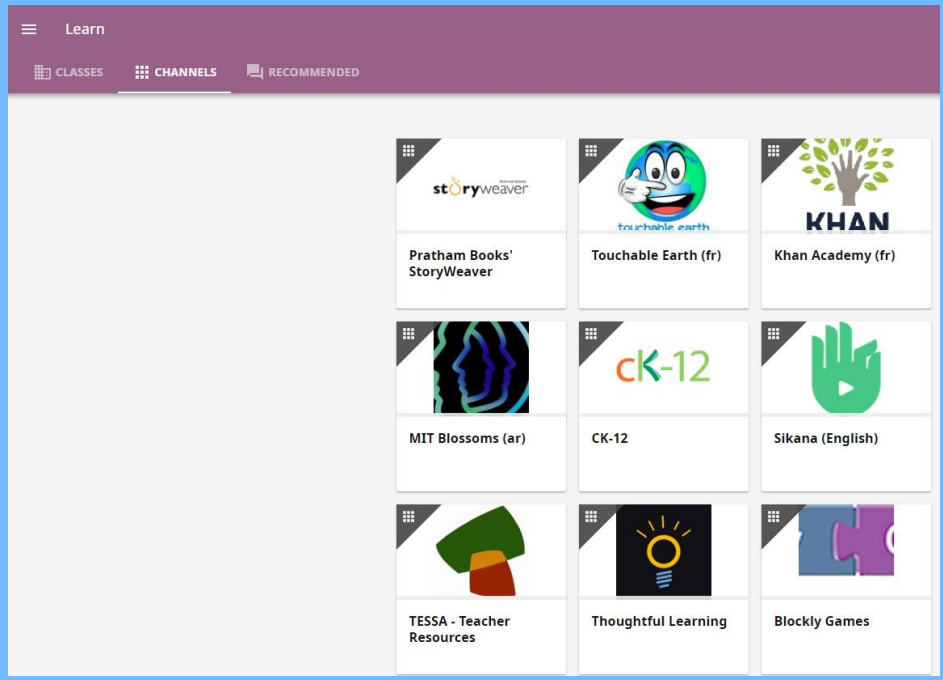
- Server for Khan Academy
- Used by Most Educational Installs
- Both Videos and Exercises
- Optional Progress Tracking





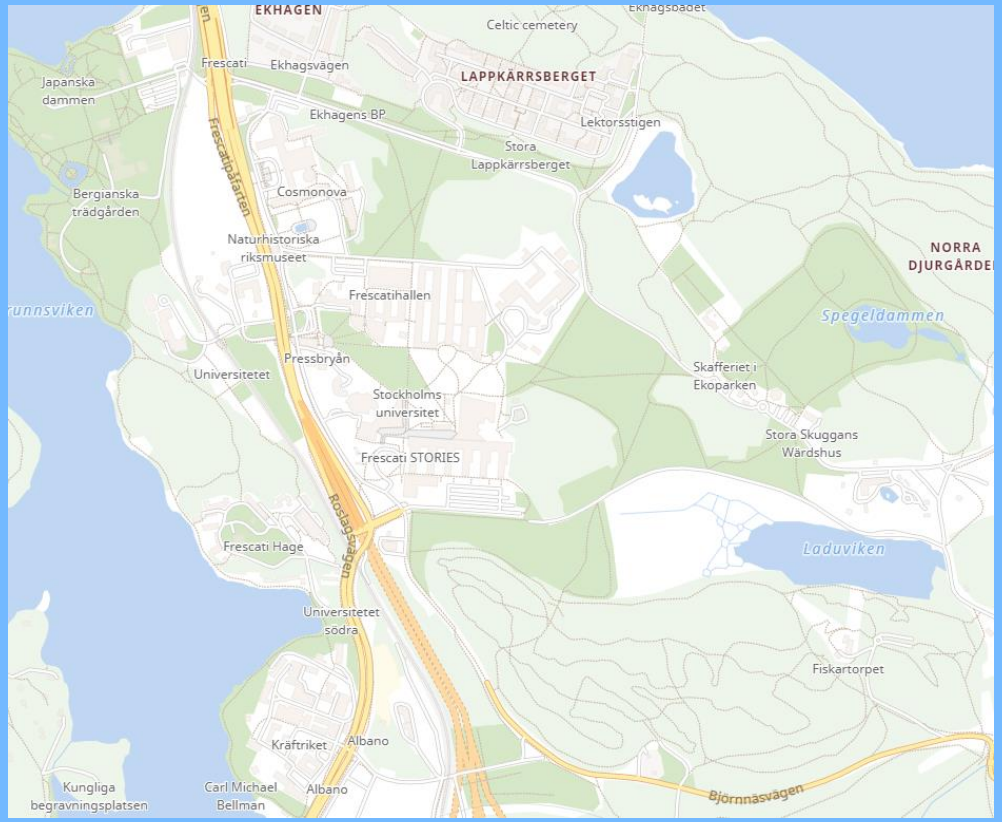
Kolibri

- The Successor to Kalite
- Has a Broader Range of Channels
- Dynamic Scraping of Content Web Sites
- Supports Sneaker Net for Content Distribution



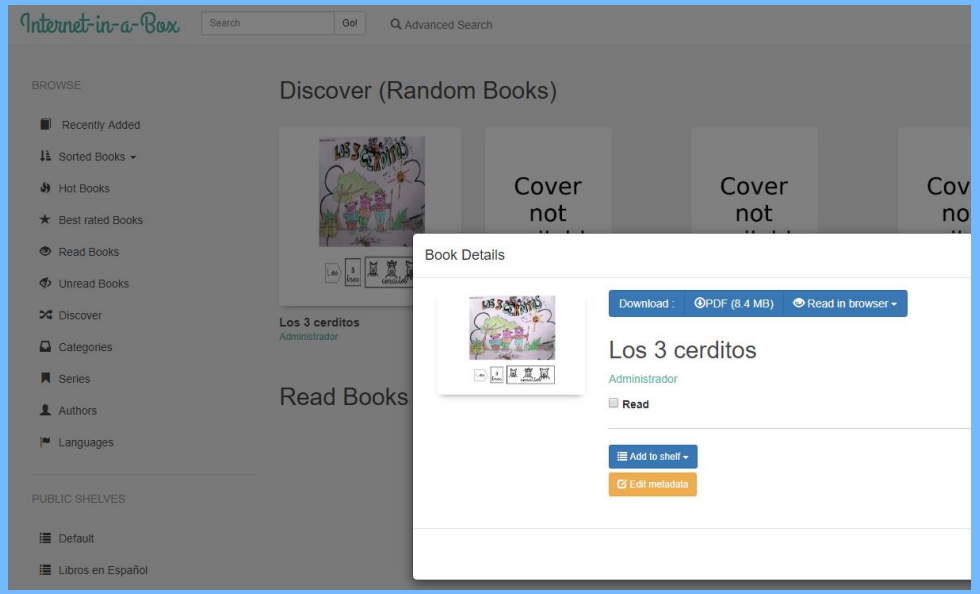
OpenStreetMap

- World Maps
- Zoom to 11 Levels
- Can download individual regions with 15 levels of zoom that scale to 18 levels (about 4-to-23 GB each).
- Also includes satellite photos (10 levels of zoom) from Sentinel.
- Search for cities/towns/settlements that have more than 1000 people.



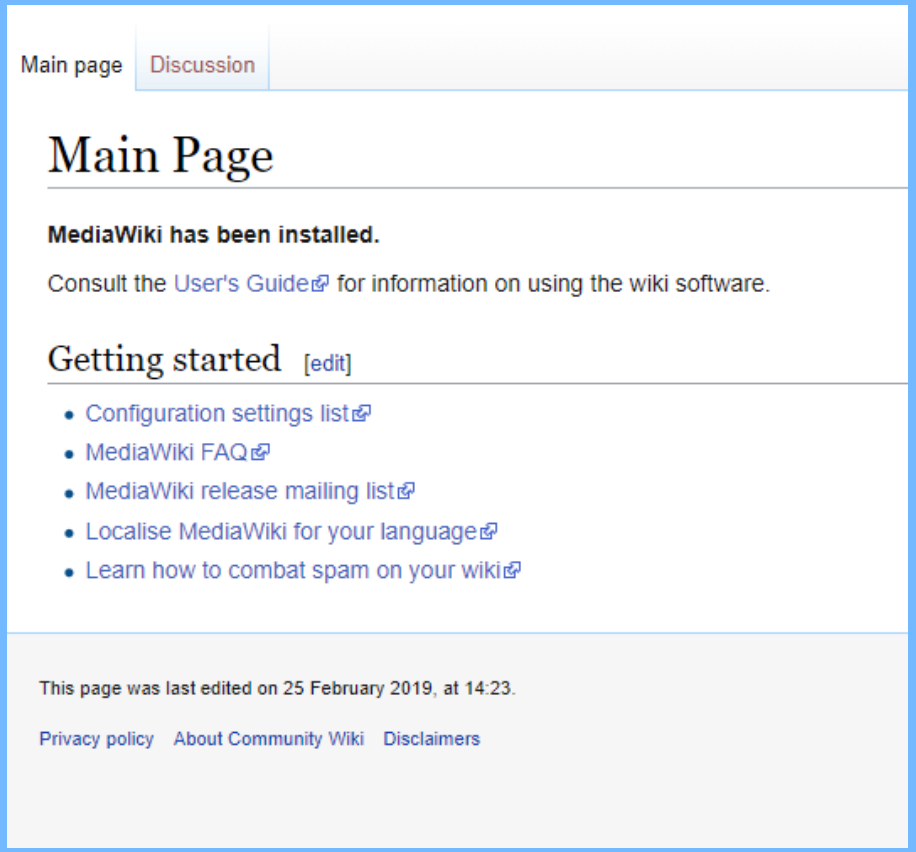
Calibre-Web

- Store and Access electronic books (e-pub, pdf, mobi, etc.).
- Downloaded books, documents and images can be added using browser.
- Creates thumbnail automatically.
- Students can also create accounts to track reading progress.



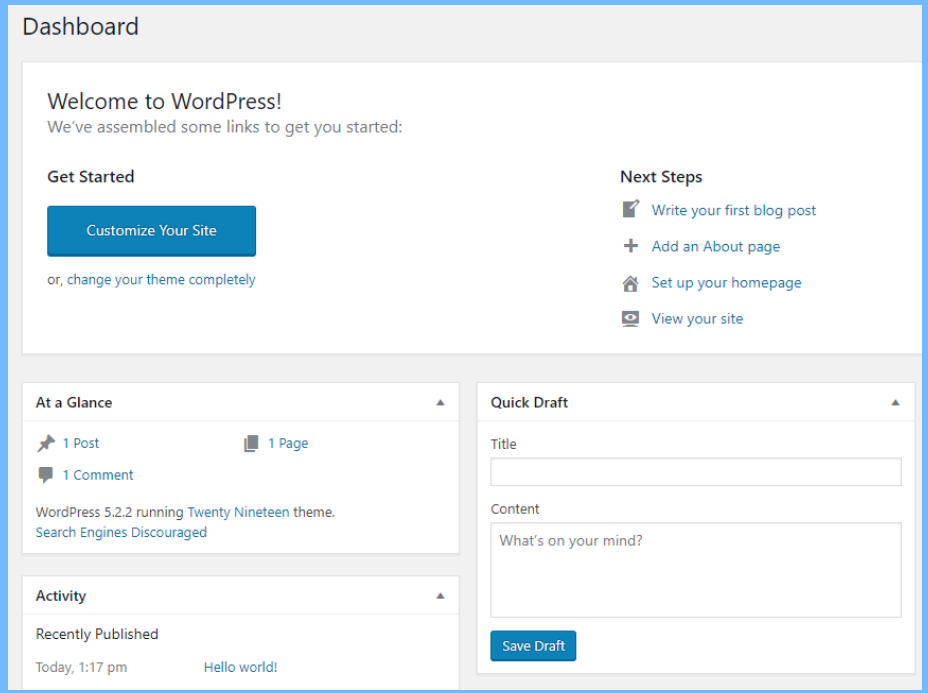
MediaWiki

- Well known server
- Use for Local Information:
- Calendar
- Medical Protocols
- School Web Site



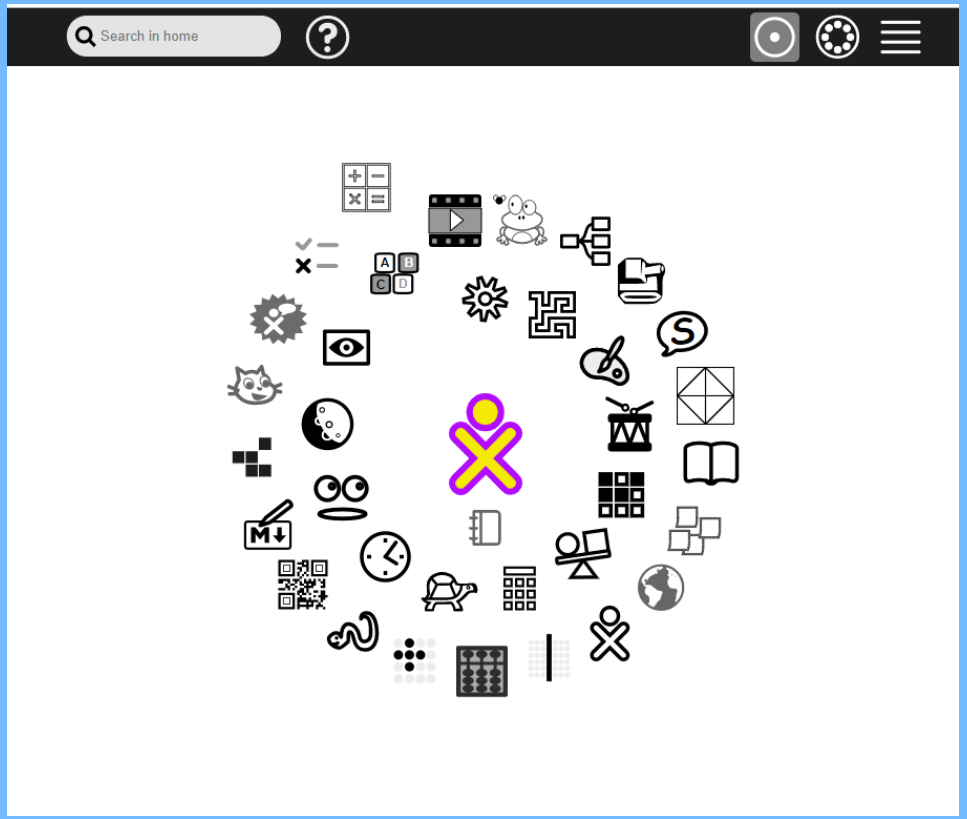
WordPress

- Also well known server
- Use for Local Information:
- Calendar
- Medical Protocols
- School Web Site



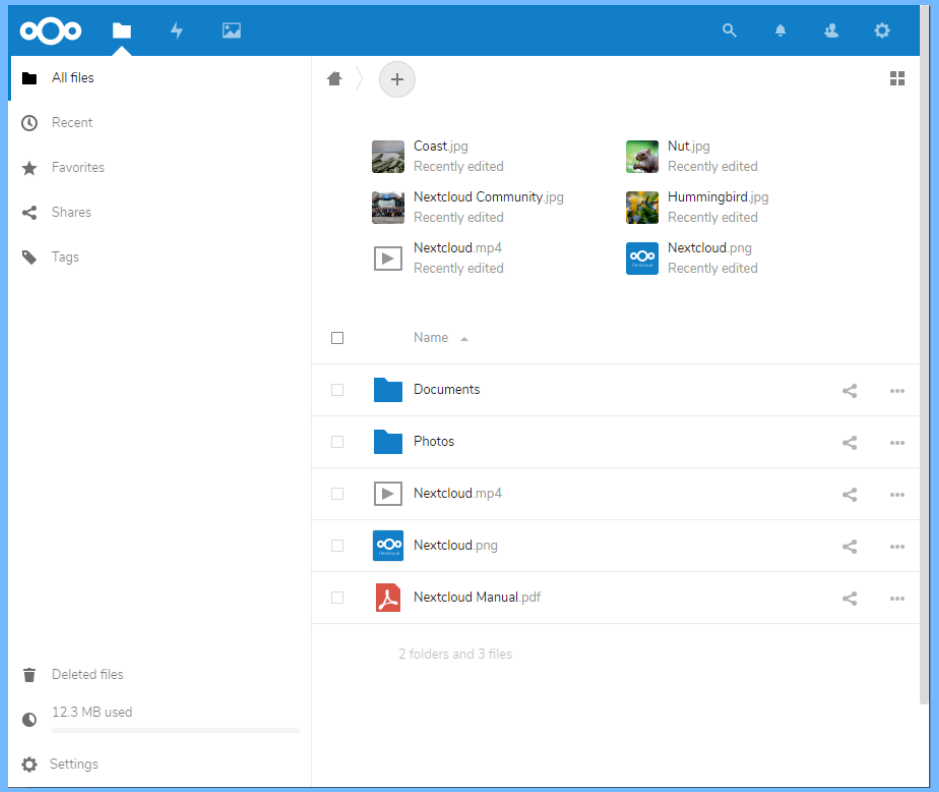
Sugarizer

- OLPC Learning Environment
- Based on shareable Activities
- Collaborative
- Implemented as a Server



Nextcloud

- Media Sharing
- Nextcloud puts your data at your fingertips, under your control. Store your documents, calendar, contacts and photos on your local server.
- Collaboration between Phones (Android and iOS apps available) and Laptops
- Can make materials available to group of students.



Other Interactive Apps

- MineTest
  - Open Source Game
  - Similar to MineCraft
  - Default is Creative Mode
- Elgg
  - Media Sharing
  - Collaboration

Communications and Infrastructure

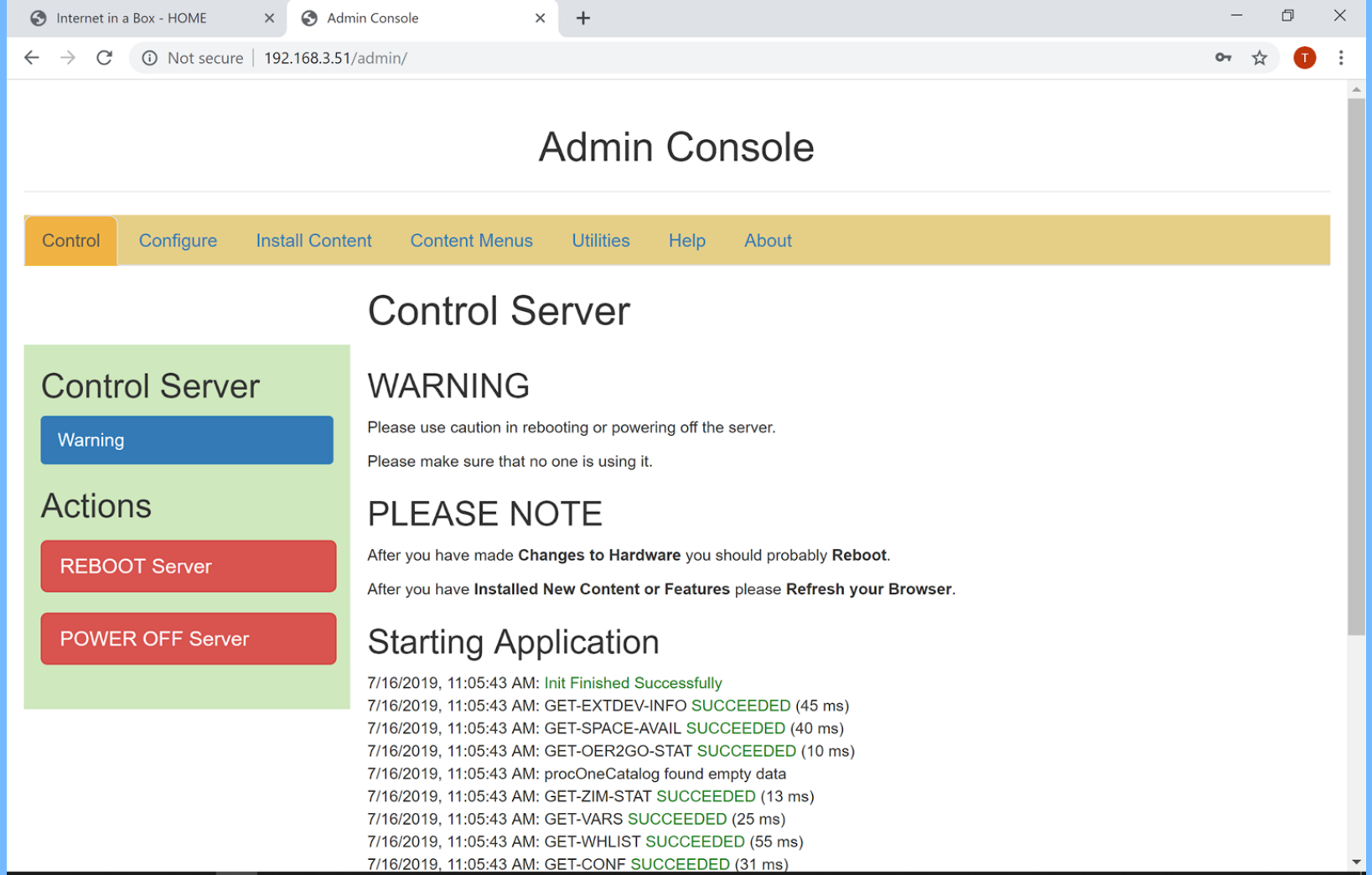
- Lokole – Local email
- PBX – Local telephony
- Transmission – BitTorrent client
- Samba – Windows File Sharing
- CUPS – Printer services

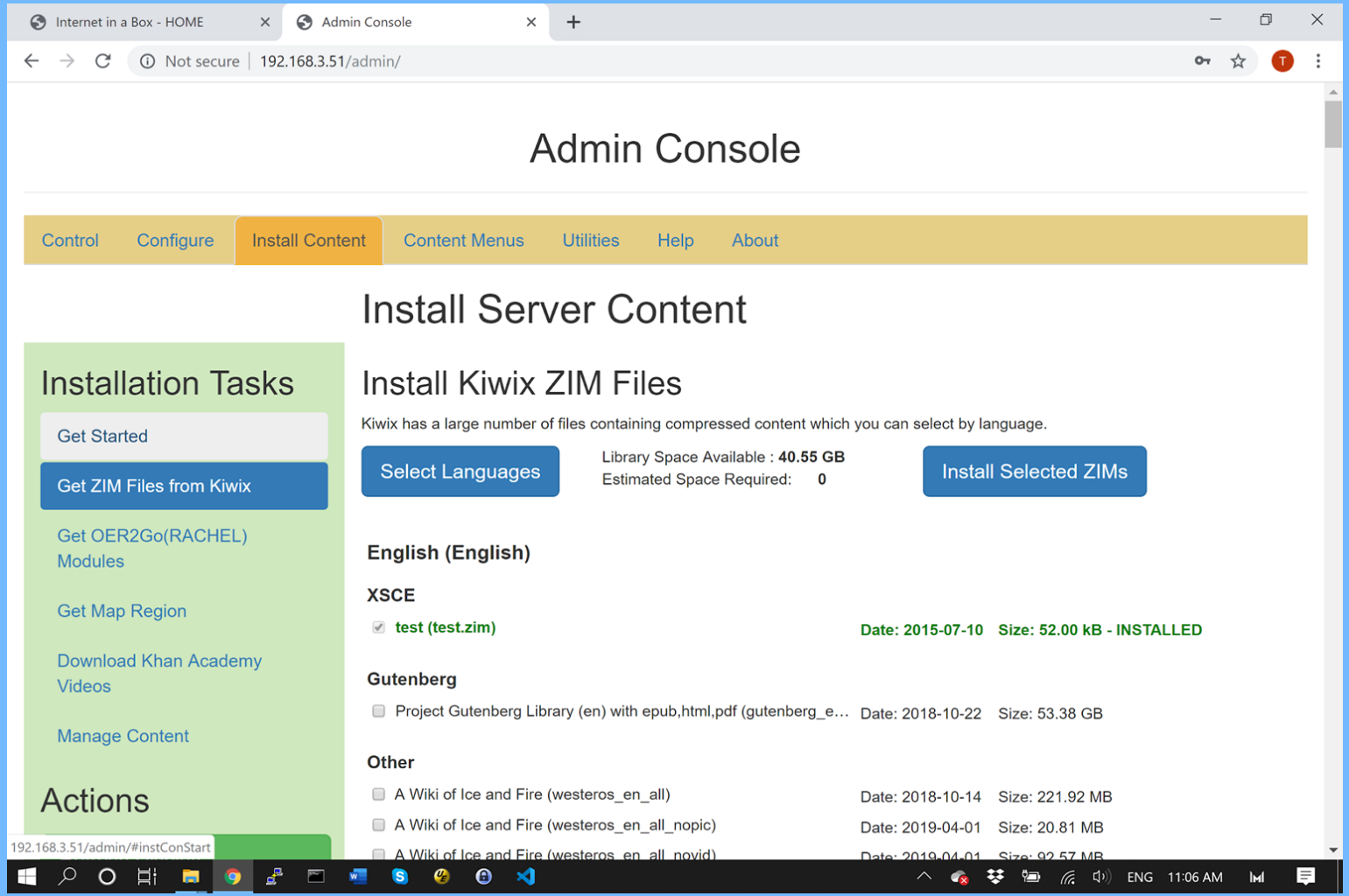
Management and Analysis

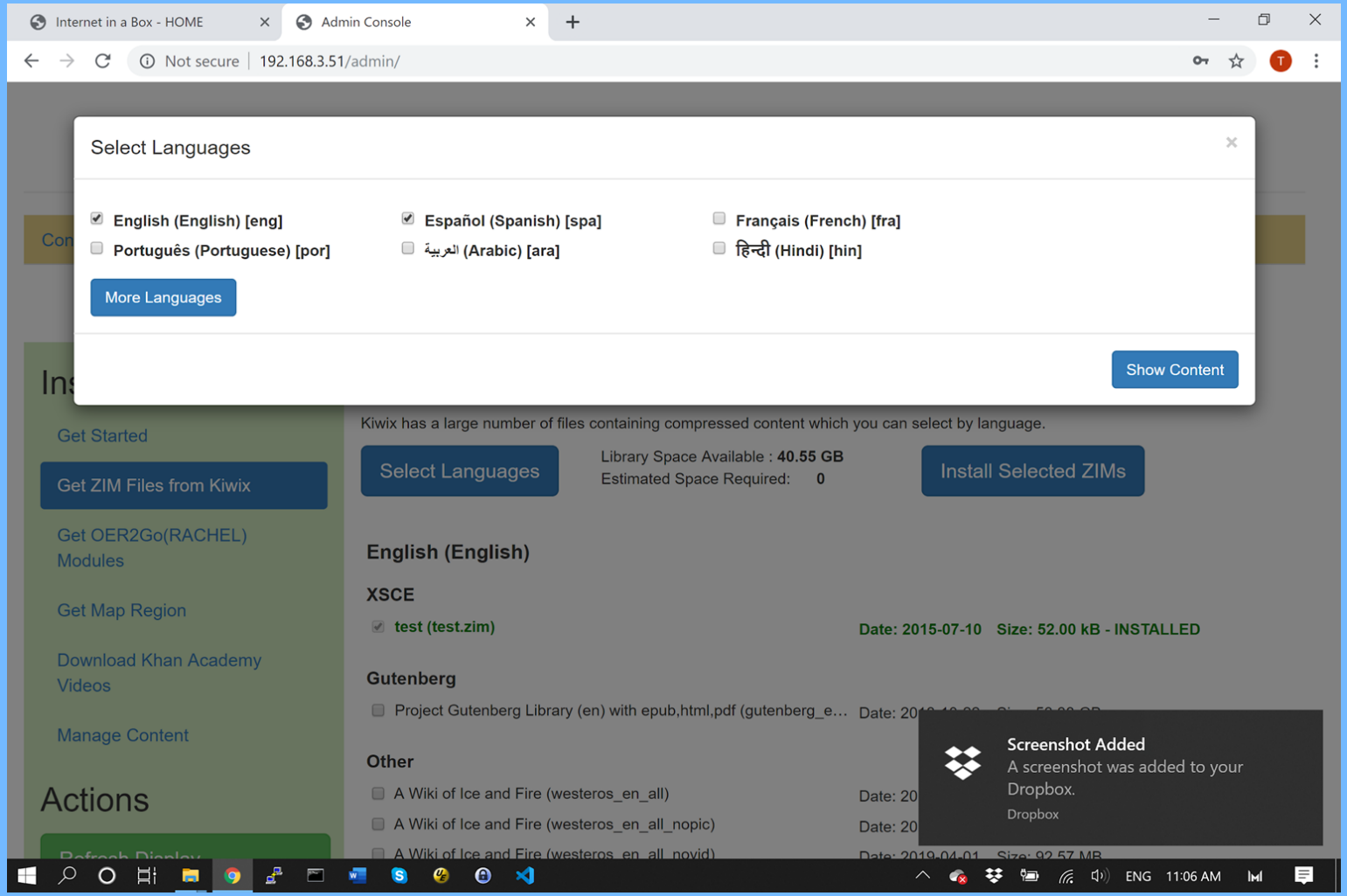
- AWStats – Usage Statistics
- Munin – Server Monitor
- vnStat – Network Monitor
- OpenVPN – Support VPN

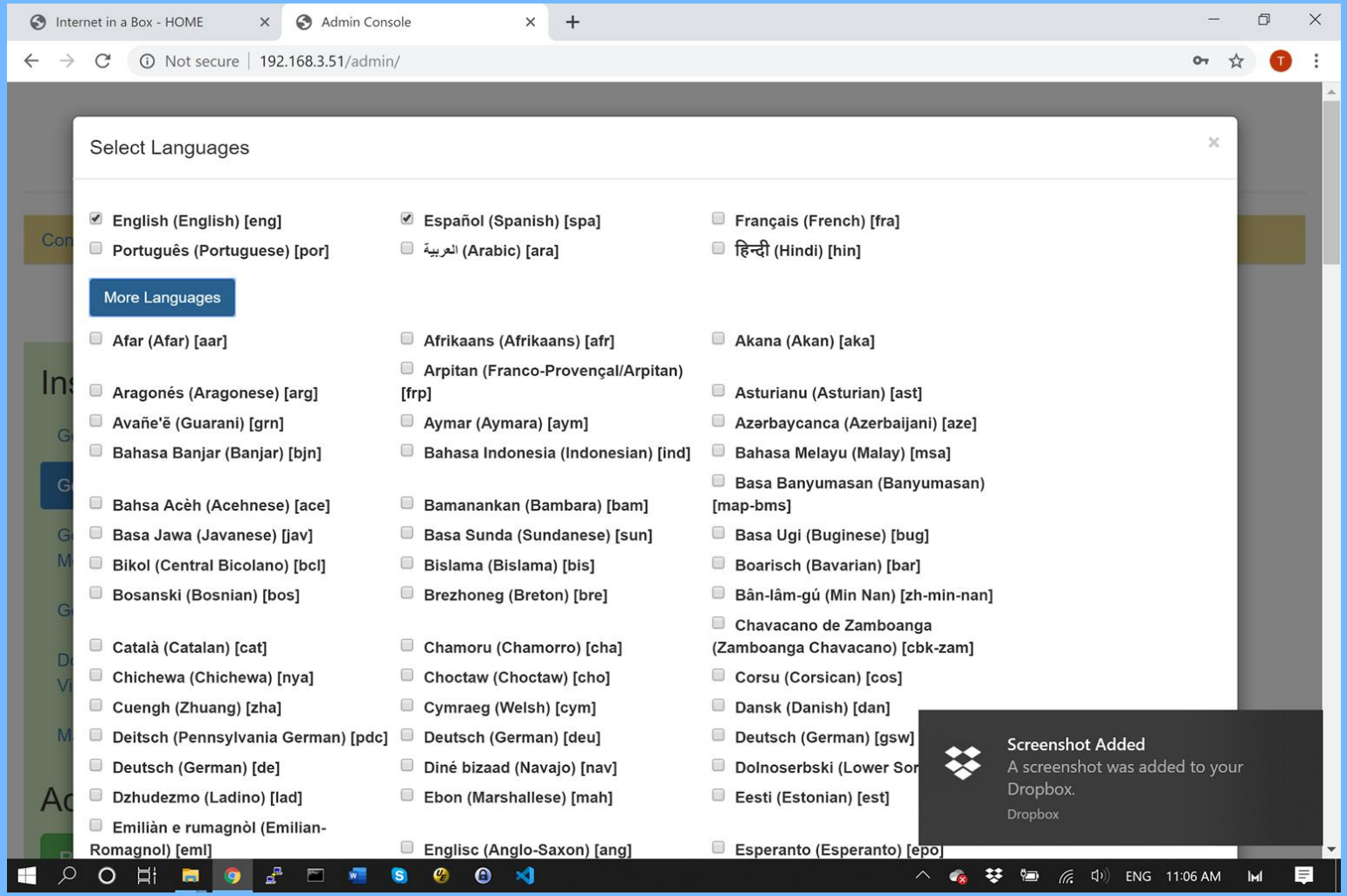
How do I Customize it for My Audience?

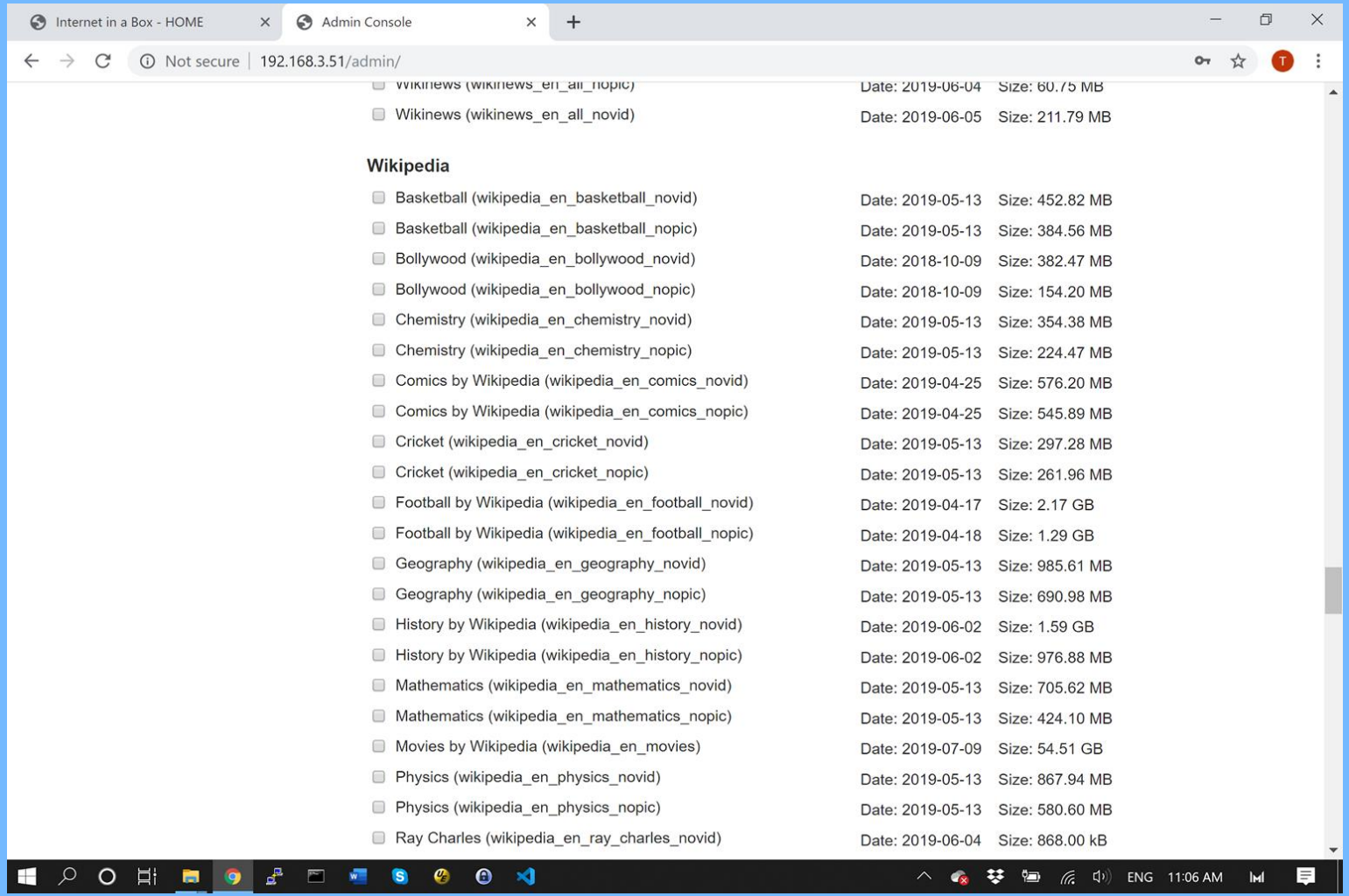
- The short answer is using the Admin Console
- Let’s look at it briefly


Internet in a Box - HOME
Admin Console
Not secure | 192.168.3.51/admin/
Admin Console
Control
Configure
Install Content
Content Menus
Utilities
Help
About
Control Server
Control Server
Warning
Actions
REBOOT Server
POWER OFF Server
WARNING
Please use caution in rebooting or powering off the server.
Please make sure that no one is using it.
PLEASE NOTE
After you have made Changes to Hardware you should probably Reboot.
After you have Installed New Content or Features please Refresh your Browser.
Starting Application
7/16/2019, 11:05:43 AM: Init Finished Successfully
7/16/2019, 11:05:43 AM: GET-EXTDEV-INFO SUCCEEDED (45 ms)
7/16/2019, 11:05:43 AM: GET-SPACE-AVAIL SUCCEEDED (40 ms)
7/16/2019, 11:05:43 AM: GET-OER2GO-STAT SUCCEEDED (10 ms)
7/16/2019, 11:05:43 AM: procOneCatalog found empty data
7/16/2019, 11:05:43 AM: GET-ZIM-STAT SUCCEEDED (13 ms)
7/16/2019, 11:05:43 AM: GET-VARS SUCCEEDED (25 ms)
7/16/2019, 11:05:43 AM: GET-WHLIST SUCCEEDED (55 ms)
7/16/2019, 11:05:43 AM: GET-CONF SUCCEEDED (31 ms)
ENG
11:05 AM


Internet in a Box - HOME
Admin Console
Not secure | 192.168.3.51/admin/
Admin Console
Control
Configure
Install Content
Content Menus
Utilities
Help
About
Install Server Content
Installation Tasks
Get Started
Get ZIM Files from Kiwix
Get OER2Go(RACHEL) Modules
Get Map Region
Download Khan Academy Videos
Manage Content
Actions
Install Kiwix ZIM Files
Kiwix has a large number of files containing compressed content which you can select by language.
Select Languages
Library Space Available : 40.55 GB
Estimated Space Required: 0
Install Selected ZIMs
English (English)
XSCE
test (test.zim)
Date: 2015-07-10 Size: 52.00 kB - INSTALLED
Gutenberg
Project Gutenberg Library (en) with epub,html,pdf (gutenberg_e…
Date: 2018-10-22 Size: 53.38 GB
Other
A Wiki of Ice and Fire (westeros_en_all)
Date: 2018-10-14 Size: 221.92 MB
A Wiki of Ice and Fire (westeros_en_all_nopic)
Date: 2019-04-01 Size: 20.81 MB
192.168.3.51/admin/#instConStart
ENG 11:06 AM


Internet in a Box - HOME
Admin Console
Not secure
192.168.3.51/admin/
Select Languages
English (English) [eng]
Español (Spanish) [spa]
Français (French) [fra]
Português (Portuguese) [por]
العربية (Arabic) [ara]
हिन्दी (Hindi) [hin]
More Languages
Show Content
Get Started
Get ZIM Files from Kiwix
Get OER2Go(RACHEL) Modules
Get Map Region
Download Khan Academy Videos
Manage Content
Actions
Kiwix has a large number of files containing compressed content which you can select by language.
Select Languages
Library Space Available : 40.55 GB
Estimated Space Required: 0
Install Selected ZIMs
English (English)
XSCE
test (test.zim)
Date: 2015-07-10 Size: 52.00 kB - INSTALLED
Gutenberg
Project Gutenberg Library (en) with epub,html,pdf (gutenberg_e…
Other
A Wiki of Ice and Fire (westeros_en_all)
A Wiki of Ice and Fire (westeros_en_all_nopic)
Screenshot Added
A screenshot was added to your Dropbox.
Dropbox
ENG
11:06 AM


Internet in a Box - HOME
Admin Console
Not secure
192.168.3.51/admin/
Select Languages
English (English) [eng]
Español (Spanish) [spa]
Français (French) [fra]
Português (Portuguese) [por]
العربية (Arabic) [ara]
हिन्दी (Hindi) [hin]
More Languages
Afar (Afar) [aar]
Afrikaans (Afrikaans) [afr]
Akana (Akan) [aka]
Arpitan (Franco-Provençal/Arpitan) [frp]
Aragonés (Aragonese) [arg]
Asturianu (Asturian) [ast]
Avañe'ẽ (Guarani) [grn]
Aymar (Aymara) [aym]
Azərbaycanca (Azerbaijani) [aze]
Bahasa Banjar (Banjar) [bjn]
Bahasa Indonesia (Indonesian) [ind]
Bahasa Melayu (Malay) [msa]
Basa Banyumasan (Banyumasan) [map-bms]
Bahsa Acèh (Acehnese) [ace]
Bamanankan (Bambara) [bam]
Basa Jawa (Javanese) [jav]
Basa Sunda (Sundanese) [sun]
Basa Ugi (Buginese) [bug]
Bikol (Central Bicolano) [bcl]
Bislama (Bislama) [bis]
Boarisch (Bavarian) [bar]
Bosanski (Bosnian) [bos]
Brezhoneg (Breton) [bre]
Bân-lâm-gú (Min Nan) [zh-min-nan]
Chavacano de Zamboanga (Zamboanga Chavacano) [cbk-zam]
Català (Catalan) [cat]
Chamoru (Chamorro) [cha]
Chichewa (Chichewa) [nya]
Choctaw (Choctaw) [cho]
Corsu (Corsican) [cos]
Cuengh (Zhuang) [zha]
Cymraeg (Welsh) [cym]
Dansk (Danish) [dan]
Deitsch (Pennsylvania German) [pdc]
Deutsch (German) [deu]
Deutsch (German) [gsw]
Deutsch (German) [de]
Diné bizaad (Navajo) [nav]
Dzhudezmo (Ladino) [lad]
Ebon (Marshallese) [mah]
Eesti (Estonian) [est]
Emiliàn e rumagnòl (Emilian-Romagnol) [eml]
Englisc (Anglo-Saxon) [ang]
Esperanto (Esperanto) [epo]
Screenshot Added
A screenshot was added to your Dropbox.
Dropbox
ENG
11:06 AM


Internet in a Box - HOME
Admin Console
Not secure
192.168.3.51/admin/
Wikinews (wikinews_en_all_nopic) Date: 2019-06-04 Size: 60.75 MB
Wikinews (wikinews_en_all_novid) Date: 2019-06-05 Size: 211.79 MB
Wikipedia
Basketball (wikipedia_en_basketball_novid) Date: 2019-05-13 Size: 452.82 MB
Basketball (wikipedia_en_basketball_nopic) Date: 2019-05-13 Size: 384.56 MB
Bollywood (wikipedia_en_bollywood_novid) Date: 2018-10-09 Size: 382.47 MB
Bollywood (wikipedia_en_bollywood_nopic) Date: 2018-10-09 Size: 154.20 MB
Chemistry (wikipedia_en_chemistry_novid) Date: 2019-05-13 Size: 354.38 MB
Chemistry (wikipedia_en_chemistry_nopic) Date: 2019-05-13 Size: 224.47 MB
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Comics by Wikipedia (wikipedia_en_comics_nopic) Date: 2019-04-25 Size: 545.89 MB
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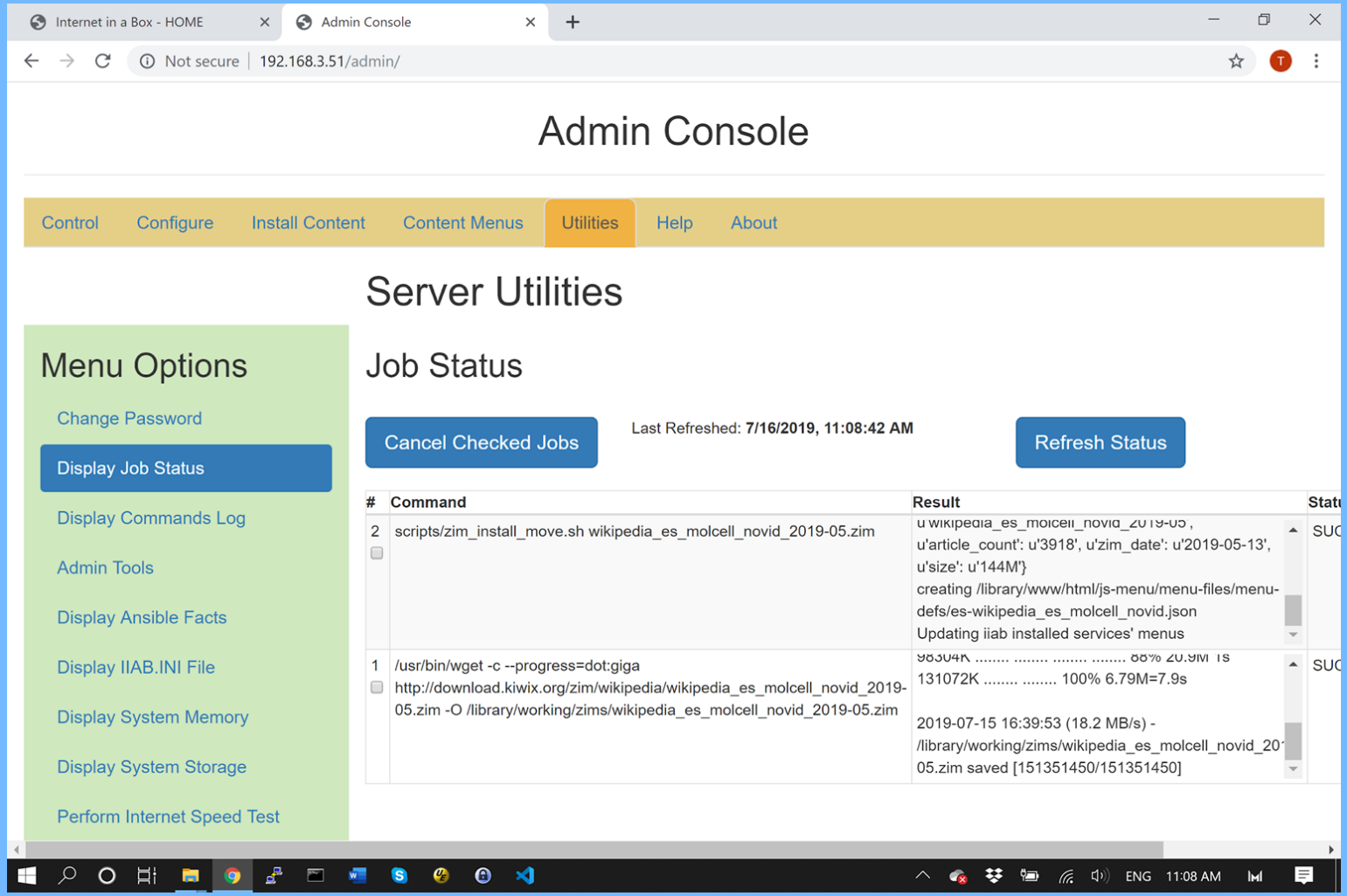
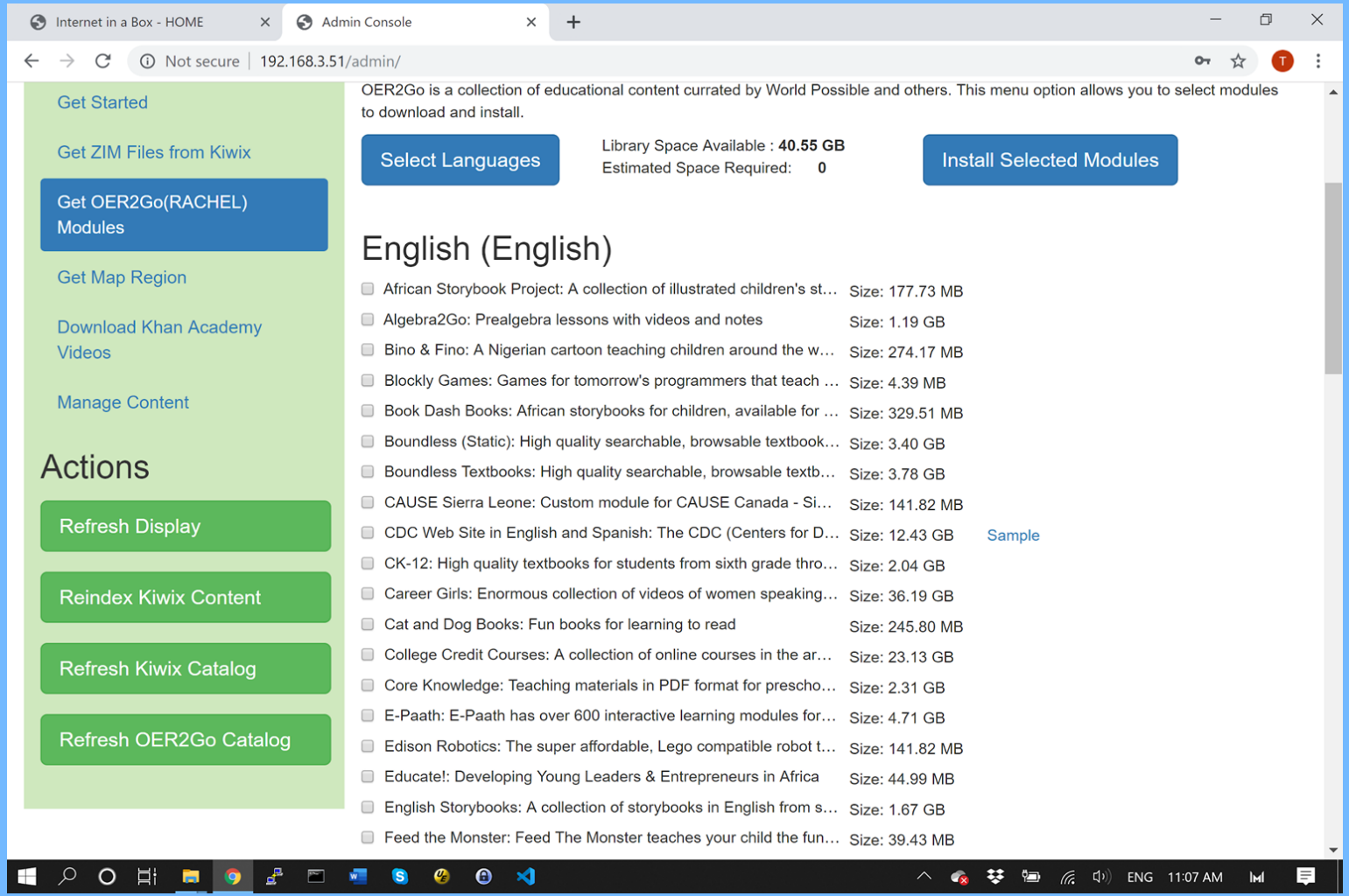
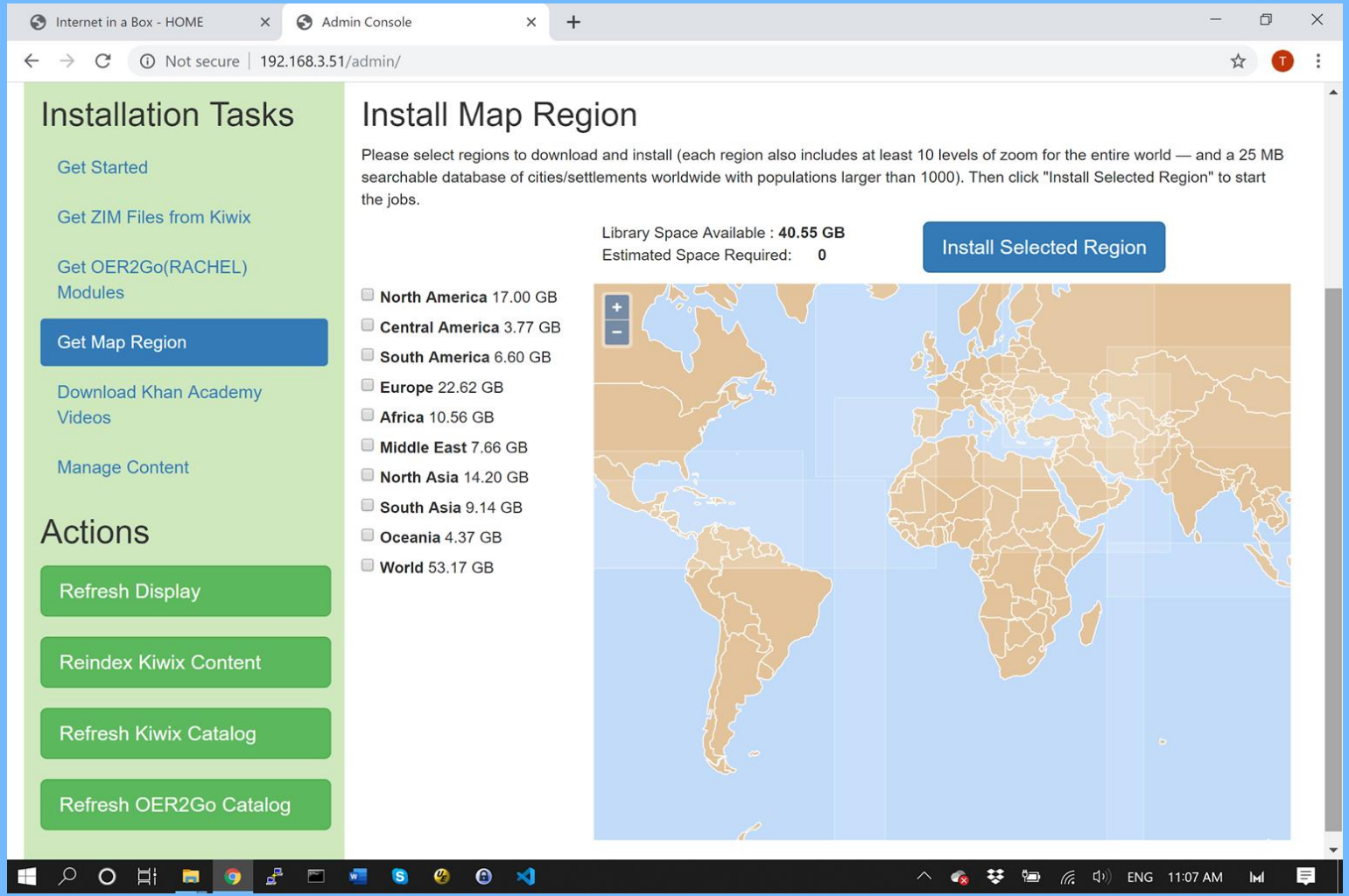
Cricket (wikipedia_en_cricket_nopic) Date: 2019-05-13 Size: 261.96 MB
Football by Wikipedia (wikipedia_en_football_novid) Date: 2019-04-17 Size: 2.17 GB
Football by Wikipedia (wikipedia_en_football_nopic) Date: 2019-04-18 Size: 1.29 GB
Geography (wikipedia_en_geography_novid) Date: 2019-05-13 Size: 985.61 MB
Geography (wikipedia_en_geography_nopic) Date: 2019-05-13 Size: 690.98 MB
History by Wikipedia (wikipedia_en_history_novid) Date: 2019-06-02 Size: 1.59 GB
History by Wikipedia (wikipedia_en_history_nopic) Date: 2019-06-02 Size: 976.88 MB
Mathematics (wikipedia_en_mathematics_novid) Date: 2019-05-13 Size: 705.62 MB
Mathematics (wikipedia_en_mathematics_nopic) Date: 2019-05-13 Size: 424.10 MB
Movies by Wikipedia (wikipedia_en_movies) Date: 2019-07-09 Size: 54.51 GB
Physics (wikipedia_en_physics_novid) Date: 2019-05-13 Size: 867.94 MB
Physics (wikipedia_en_physics_nopic) Date: 2019-05-13 Size: 580.60 MB
Ray Charles (wikipedia_en_ray_charles_novid) Date: 2019-06-04 Size: 868.00 kB
ENG 11:06 AM

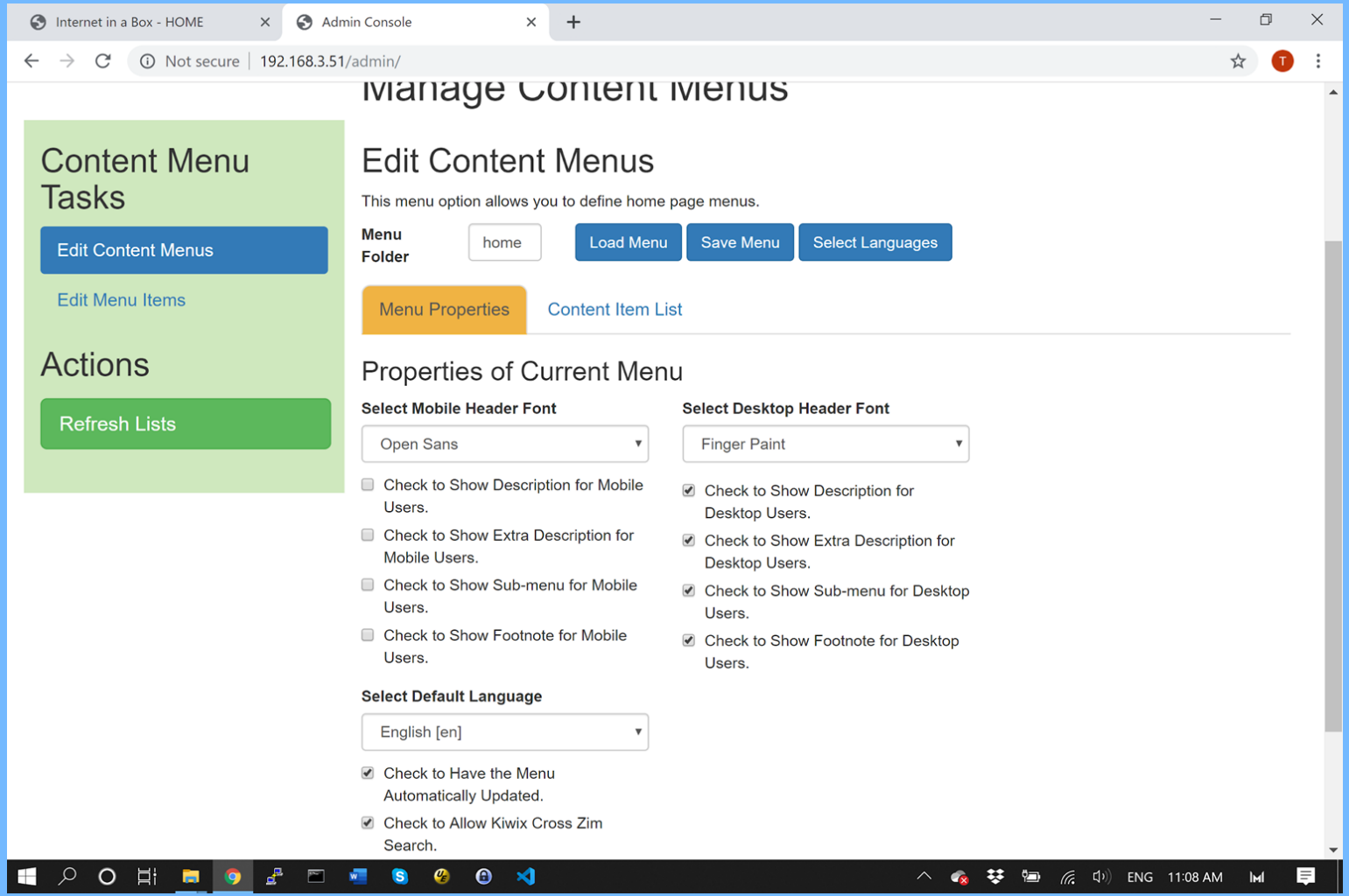

Internet in a Box - HOME
Admin Console
Not secure | 192.168.3.51/admin/
Admin Console
Control
Configure
Install Content
Content Menus
Utilities
Help
About
Server Utilities
Menu Options
Change Password
Display Job Status
Display Commands Log
Admin Tools
Display Ansible Facts
Display IIAB.INI File
Display System Memory
Display System Storage
Perform Internet Speed Test
Job Status
Cancel Checked Jobs
Last Refreshed: 7/16/2019, 11:08:42 AM
Refresh Status
Command Result
2 scripts/zim_install_move.sh wikipedia_es_molcell_novid_2019-05.zim
u'article_count': u'3918', u'zim_date': u'2019-05-13', u'size': u'144M'}
creating /library/www/html/js-menu/menu-files/menu-defs/es-wikipedia_es_molcell_novid.json
Updating iiab installed services' menus
1 /usr/bin/wget -c --progress=dot:giga http://download.kiwix.org/zim/wikipedia/wikipedia_es_molcell_novid_2019-05.zim -O /library/working/zims/wikipedia_es_molcell_novid_2019-05.zim
131072K .... 100% 6.79M=7.9s
2019-07-15 16:39:53 (18.2 MB/s) - /library/working/zims/wikipedia_es_molcell_novid_2019-05.zim saved [151351450/151351450]
ENG 11:08 AM


Internet in a Box - HOME
Admin Console
Not secure
192.168.3.51/admin/
Get Started
Get ZIM Files from Kiwix
Get OER2Go(RACHEL) Modules
Get Map Region
Download Khan Academy Videos
Manage Content
Actions
Refresh Display
Reindex Kiwix Content
Refresh Kiwix Catalog
Refresh OER2Go Catalog
OER2Go is a collection of educational content currated by World Possible and others. This menu option allows you to select modules to download and install.
Select Languages
Library Space Available : 40.55 GB
Estimated Space Required: 0
Install Selected Modules
English (English)
African Storybook Project: A collection of illustrated children's st… Size: 177.73 MB
Algebra2Go: Prealgebra lessons with videos and notes Size: 1.19 GB
Bino & Fino: A Nigerian cartoon teaching children around the w… Size: 274.17 MB
Blockly Games: Games for tomorrow's programmers that teach … Size: 4.39 MB
Book Dash Books: African storybooks for children, available for … Size: 329.51 MB
Boundless (Static): High quality searchable, browsable textbook… Size: 3.40 GB
Boundless Textbooks: High quality searchable, browsable textb… Size: 3.78 GB
CAUSE Sierra Leone: Custom module for CAUSE Canada - Si… Size: 141.82 MB
CDC Web Site in English and Spanish: The CDC (Centers for D… Size: 12.43 GB Sample
CK-12: High quality textbooks for students from sixth grade thro… Size: 2.04 GB
Career Girls: Enormous collection of videos of women speaking… Size: 36.19 GB
Cat and Dog Books: Fun books for learning to read Size: 245.80 MB
College Credit Courses: A collection of online courses in the ar… Size: 23.13 GB
Core Knowledge: Teaching materials in PDF format for prescho… Size: 2.31 GB
E-Paath: E-Paath has over 600 interactive learning modules for… Size: 4.71 GB
Edison Robotics: The super affordable, Lego compatible robot t… Size: 141.82 MB
Educate!: Developing Young Leaders & Entrepreneurs in Africa Size: 44.99 MB
English Storybooks: A collection of storybooks in English from s… Size: 1.67 GB
Feed the Monster: Feed The Monster teaches your child the fun… Size: 39.43 MB
ENG
11:07 AM


Internet in a Box - HOME
Admin Console
Not secure | 192.168.3.51/admin/
Installation Tasks
Get Started
Get ZIM Files from Kiwix
Get OER2Go(RACHEL) Modules
Get Map Region
Download Khan Academy Videos
Manage Content
Actions
Refresh Display
Reindex Kiwix Content
Refresh Kiwix Catalog
Refresh OER2Go Catalog
Install Map Region
Please select regions to download and install (each region also includes at least 10 levels of zoom for the entire world — and a 25 MB searchable database of cities/settlements worldwide with populations larger than 1000). Then click "Install Selected Region" to start the jobs.
Library Space Available : 40.55 GB
Estimated Space Required: 0
Install Selected Region
North America 17.00 GB
Central America 3.77 GB
South America 6.60 GB
Europe 22.62 GB
Africa 10.56 GB
Middle East 7.66 GB
North Asia 14.20 GB
South Asia 9.14 GB
Oceania 4.37 GB
World 53.17 GB
ENG 11:07 AM

Adjust Menu Order and Text

- Out of the Box the Menu has stuff we Don’t Want
- We can delete it by dragging it off
- Zims and OER2Go content are automatically added
- But we may want thing in a Different Order
- We can drag a Menu Item to the Position in which we want it
- We can also edit the text of the Menu Item


Internet in a Box - HOME
Admin Console
Not secure
192.168.3.51/admin/
Manage Content Menus
Content Menu Tasks
Edit Content Menus
Edit Menu Items
Actions
Refresh Lists
Edit Content Menus
This menu option allows you to define home page menus.
Menu Folder
home
Load Menu
Save Menu
Select Languages
Menu Properties
Content Item List
Properties of Current Menu
Select Mobile Header Font
Open Sans
Check to Show Description for Mobile Users.
Check to Show Extra Description for Mobile Users.
Check to Show Sub-menu for Mobile Users.
Check to Show Footnote for Mobile Users.
Select Desktop Header Font
Finger Paint
Check to Show Description for Desktop Users.
Check to Show Extra Description for Desktop Users.
Check to Show Sub-menu for Desktop Users.
Check to Show Footnote for Desktop Users.
Select Default Language
English [en]
Check to Have the Menu Automatically Updated.
Check to Allow Kiwix Cross Zim Search.
ENG
11:08 AM

Internet in a Box - HOME | Admin Console

Not secure | 192.168.3.51/admin/

Manage Content Menus

Content Menu Tasks

Edit Content Menus

Edit Menu Items

Actions

Refresh Lists

Edit Content Menus

This menu option allows you to define home page menus.

Menu Folder home | Load Menu | Save Menu | Select Languages

Menu Properties | Content Item List

Menu Items in Current Menu

- **Add content to this page + use drag-and-drop to re-order it**
- **Put a short, one line name for the item here. Ideally it would be unique.**
- **Insert a USB Stick/Drive to Publish Files Here**
- **Khan Academy Lite**
- **OpenStreetMap Test Page**

Available Menu Item Definitions

- **GCF2015**
- **African Storybook Project**
- **African Storybooks - South Africa**
- **Algebra2go**
- **Medical Information**
- **Bino & Fino**

ENG 11:08 AM

Internet in a Box - HOME | Admin Console

Not secure | 192.168.3.51/admin/

Manage Content Menus

Content Menu Tasks

Edit Content Menus

Edit Menu Items

Actions

Refresh Lists

Edit Content Menus Items

This menu option allows you to define individual items on home page menus.

Select Menu Item | Edit Menu Item

Select a Menu Item

Edit Clone	en-oob	**Add content to this page + use drag-and-drop to re-order it**
Edit Clone	en-sample	**Put a short, one line name for the item here. Ideally it would be unique.**
Edit Clone	en-usb	**Insert a USB Stick/Drive to Publish Files Here**
Edit Clone	en-kalite	**Khan Academy Lite**
Edit Clone	en-map_test	**OpenStreetMap Test Page**

192.168.3.51/admin/#menusEditContentMenuItems

ENG 11:08 AM

Content this Menu Item Shows

wikipedia_es_medicine_novid

Menu Item Code

es-wikipedia_e

Optional Code Suffix

Create a New Menu Item Definition

Change New or Existing Menu Item Definition

Title

Enciclopedia Médica Offline de Wikipedia

Name of Icon File - must be in /library/www/html/js-menu/menu-files/images

medwiki.png

Select Icon | Upload Icon

Optional Start URL - Only change this if the the blank default doesn't work.

Description

Se trata de una colección completa de todos los temas de Wikipedia sobre los cuidados relacionados con la salud, la anatomía y la medicación, en un formato que no necesita conexión a Internet.

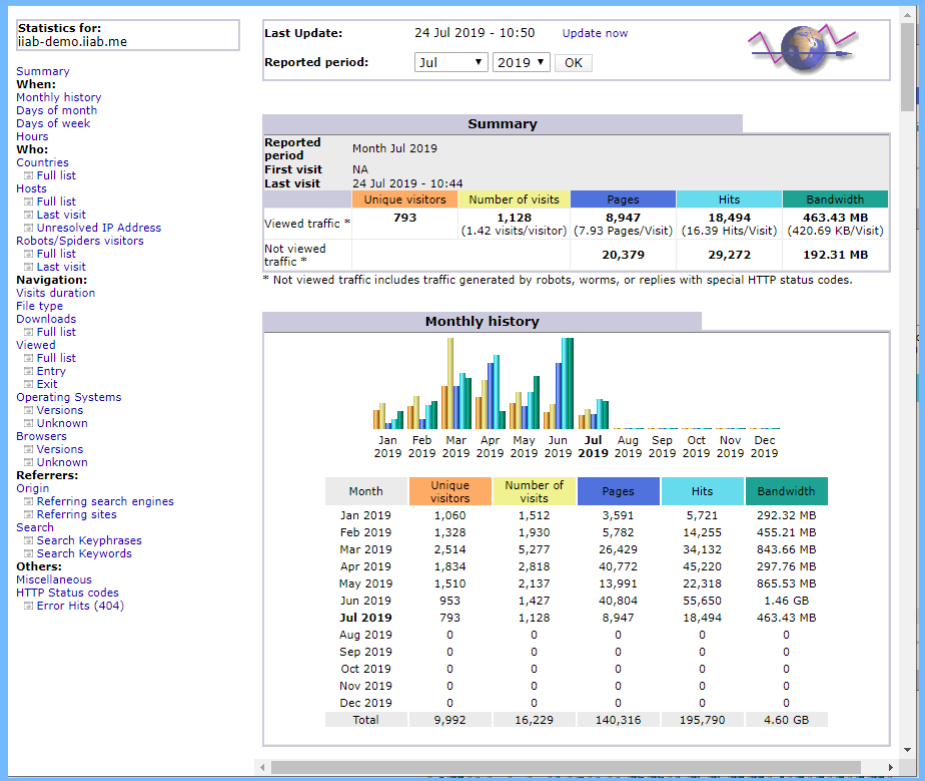
Optional Extra Description

Metrics

- Offline Connections
- Usage Statistics - AWStats
- Not Tracked - Pseudo Links
- Time Problems

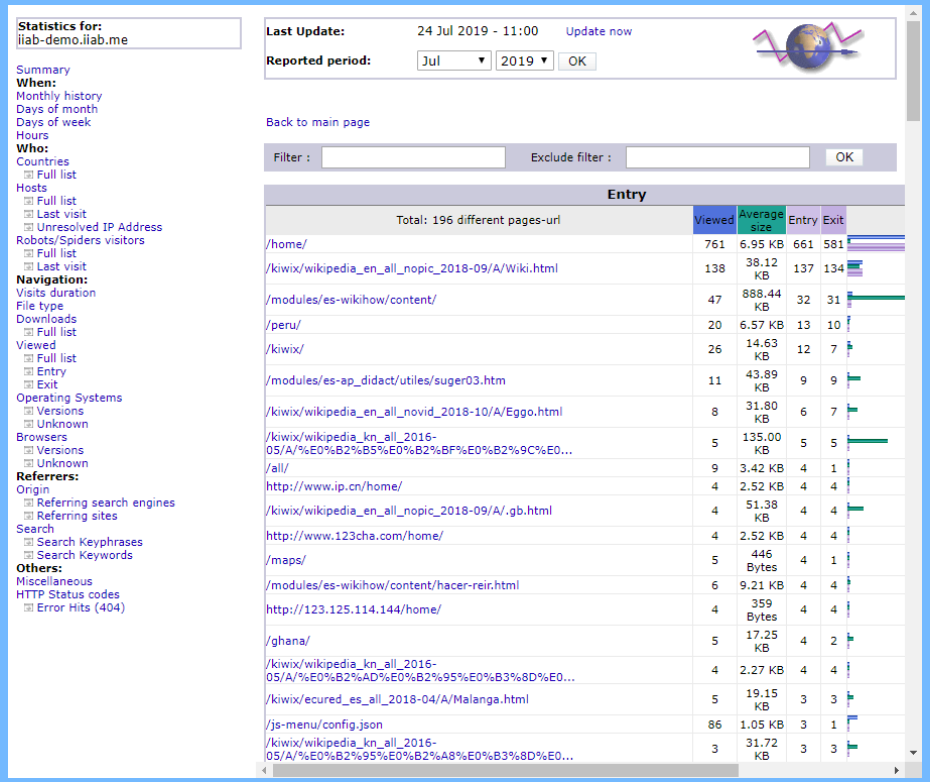
AWStats

- Very Popular Web Statistics App
- Been around a Long Time
- Number of Users
- Most Visited Pages
- Entry and Exit Page
- How Long on Site
- Mostly by Month



AWStats - Pages

- These are Entry Pages
- Note /home/
- English Wikipedia
- Spanish wikihow
- Need some expertise to read these urls



AWStats - Visitors

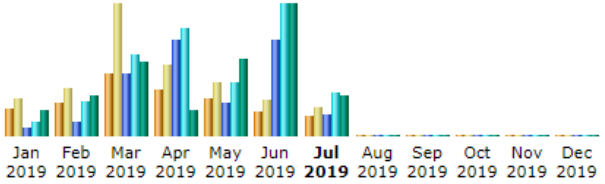
- Duration – how sticky
- Visitors and Visits – how much was the Server Used
- Various Time Frames

Summary
When:
Monthly history
Days of month
Days of week
Hours

Visits duration

Number of visits: 1,128 - Average: 82 s	Number of visits	Percent
0s-30s	1,054	93.4 %
30s-2mn	25	2.2 %
2mn-5mn	9	0.7 %
5mn-15mn	6	0.5 %
15mn-30mn	7	0.6 %
30mn-1h	14	1.2 %
1h+	6	0.5 %
Unknown	7	0.6 %

Monthly history



Month	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Jan 2019	1,060	1,512	3,591	5,721	292.32 MB
Feb 2019	1,328	1,930	5,782	14,255	455.21 MB
Mar 2019	2,514	5,277	26,429	34,132	843.66 MB
Apr 2019	1,834	2,818	40,772	45,220	297.76 MB
May 2019	1,510	2,137	13,991	22,318	865.53 MB
Jun 2019	953	1,427	40,804	55,650	1.46 GB
Jul 2019	793	1,128	8,947	18,494	463.43 MB

AWStats – Missing Pages

- Only knows Content that was accessed through Web Server
- Some Content is Accessed Directly
  - KA Lite
  - Kolibri
  - Sugarizer
- We create pseudo link in Web Log to be picked up by AWStats

AWStats – Reporting Period

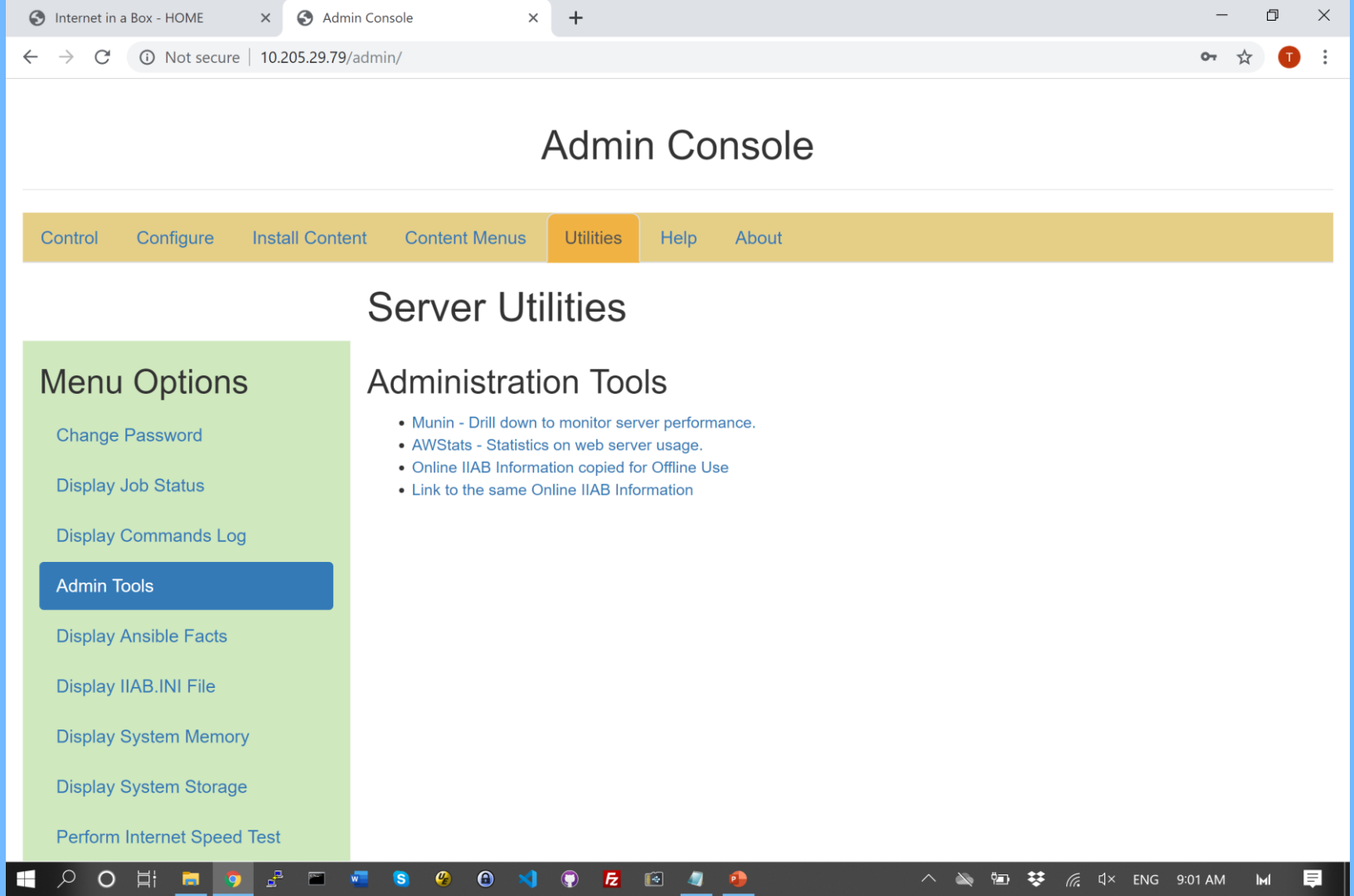
- Uses Server Clock
- Raspberry Pi does Not have a Real Time Clock (can be added)
- Guatemala servers showed all activity on the same day
- So we learned to add a time capture when device accesses home page that we trust to have the correct time.
- (Turned on or off in Admin Console)

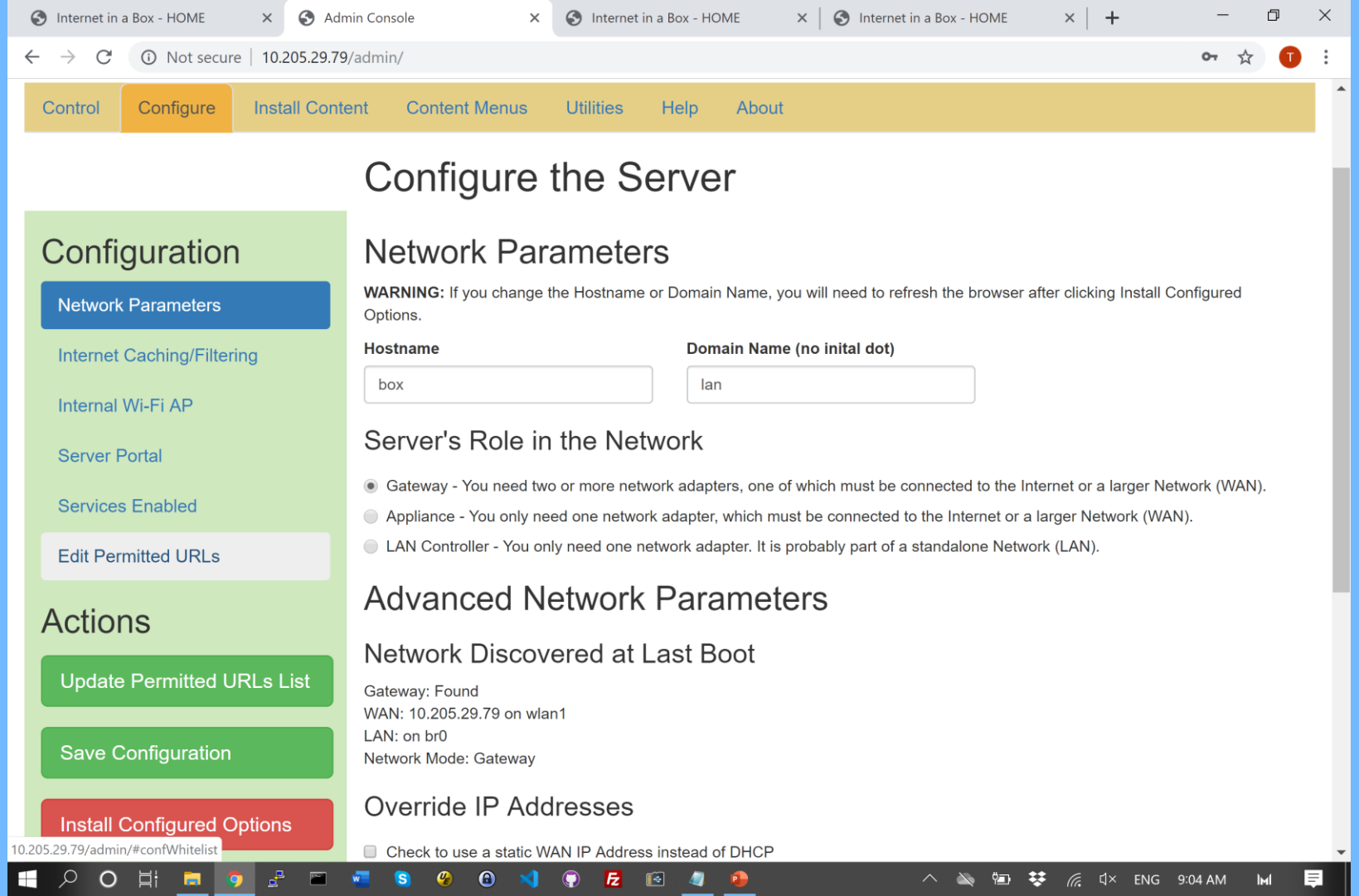
Feedback

- Experimental Feedback Form
- Not much has been done with it.
- Like AWStats we need to be able to get the data.

Configuration and Management

- Munin
  - Comprehensive set of Server and Networking Statistics
- phpMyAdmin – Not recommended
  - Can be used to edit MySql data directly
  - Can be dangerous to turn on
- Open VPN
  - Support VPN can allow Administrators to Turn on Access for developers to troubleshoot problems.
  - Off by Default

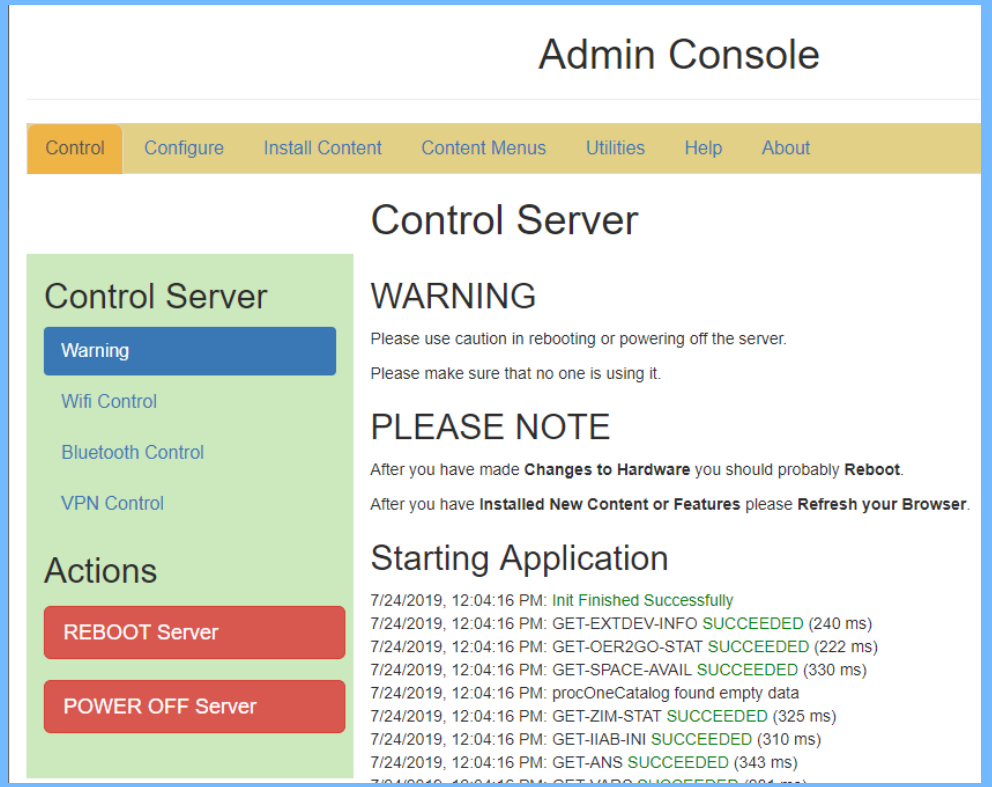

Internet in a Box - HOME
Admin Console
Not secure | 10.205.29.79/admin/
Admin Console
Control
Configure
Install Content
Content Menus
Utilities
Help
About
Server Utilities
Menu Options
Change Password
Display Job Status
Display Commands Log
Admin Tools
Display Ansible Facts
Display IIAB.INI File
Display System Memory
Display System Storage
Perform Internet Speed Test
Administration Tools
Munin - Drill down to monitor server performance.
AWStats - Statistics on web server usage.
Online IIAB Information copied for Offline Use
Link to the same Online IIAB Information
ENG
9:01 AM


Internet in a Box - HOME
Admin Console
Internet in a Box - HOME
Internet in a Box - HOME
Not secure | 10.205.29.79/admin/
Control
Configure
Install Content
Content Menus
Utilities
Help
About
Configure the Server
Configuration
Network Parameters
Internet Caching/Filtering
Internal Wi-Fi AP
Server Portal
Services Enabled
Edit Permitted URLs
Actions
Update Permitted URLs List
Save Configuration
Install Configured Options
Network Parameters
WARNING: If you change the Hostname or Domain Name, you will need to refresh the browser after clicking Install Configured Options.
Hostname
box
Domain Name (no inital dot)
lan
Server's Role in the Network
Gateway - You need two or more network adapters, one of which must be connected to the Internet or a larger Network (WAN).
Appliance - You only need one network adapter, which must be connected to the Internet or a larger Network (WAN).
LAN Controller - You only need one network adapter. It is probably part of a standalone Network (LAN).
Advanced Network Parameters
Network Discovered at Last Boot
Gateway: Found
WAN: 10.205.29.79 on wlan1
LAN: on br0
Network Mode: Gateway
Override IP Addresses
Check to use a static WAN IP Address instead of DHCP
10.205.29.79/admin/#confWhitelist
ENG
9:04 AM

Admin Console Control

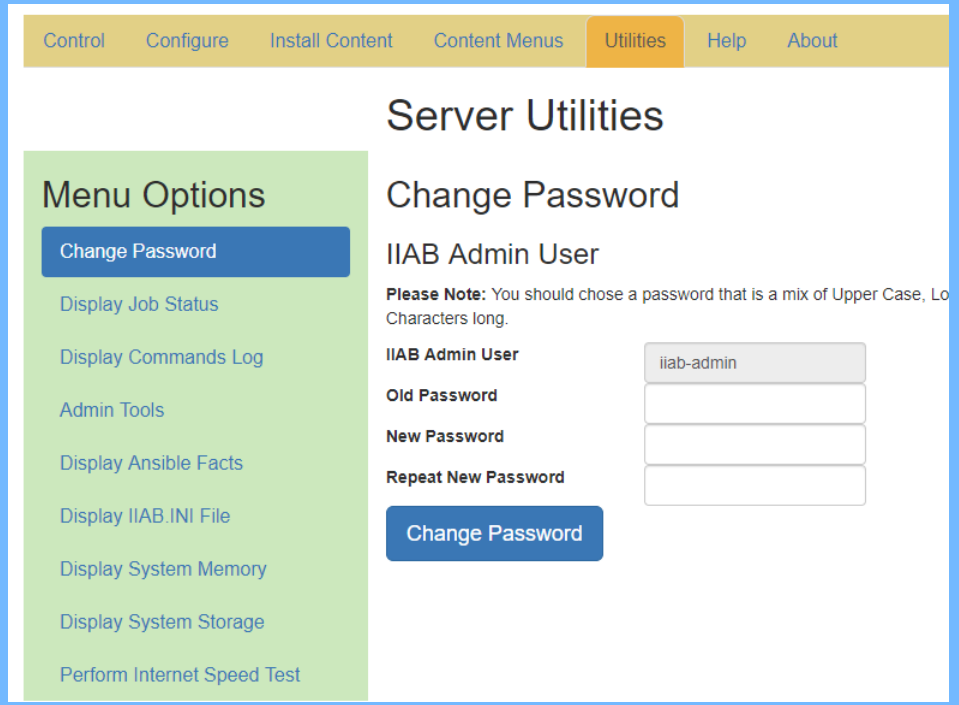
- Control the Server
- WiFi, Bluetooth, and VPN

  Raspberry Pi Only



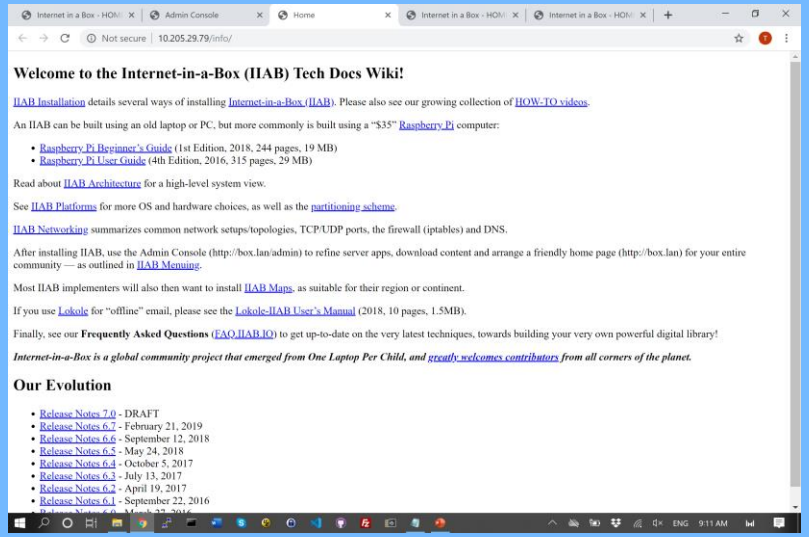
Other Admin Console

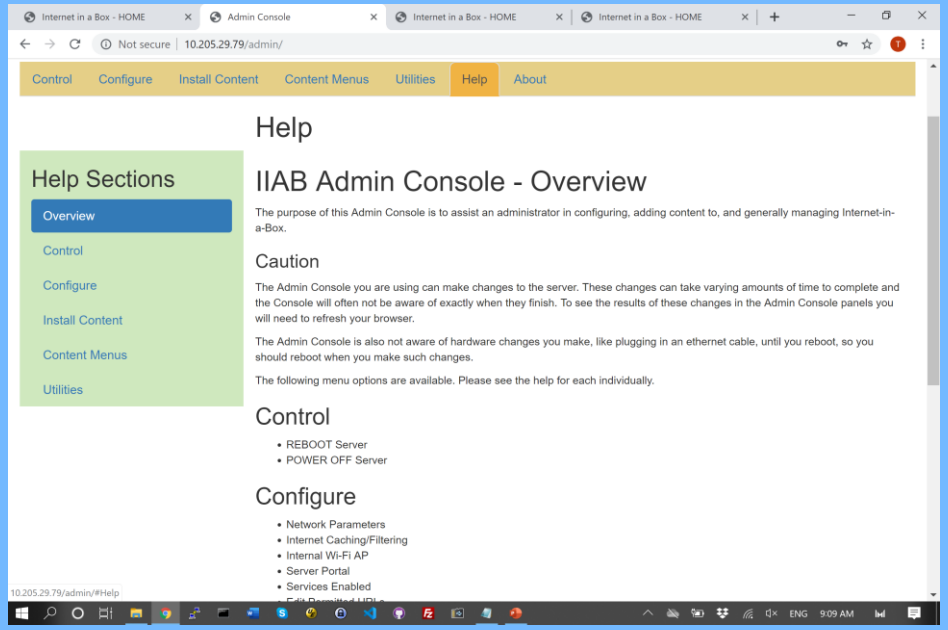
- View Configuration
- Other Utilities



Help

- Internet in a Box Info
- Admin Console Help



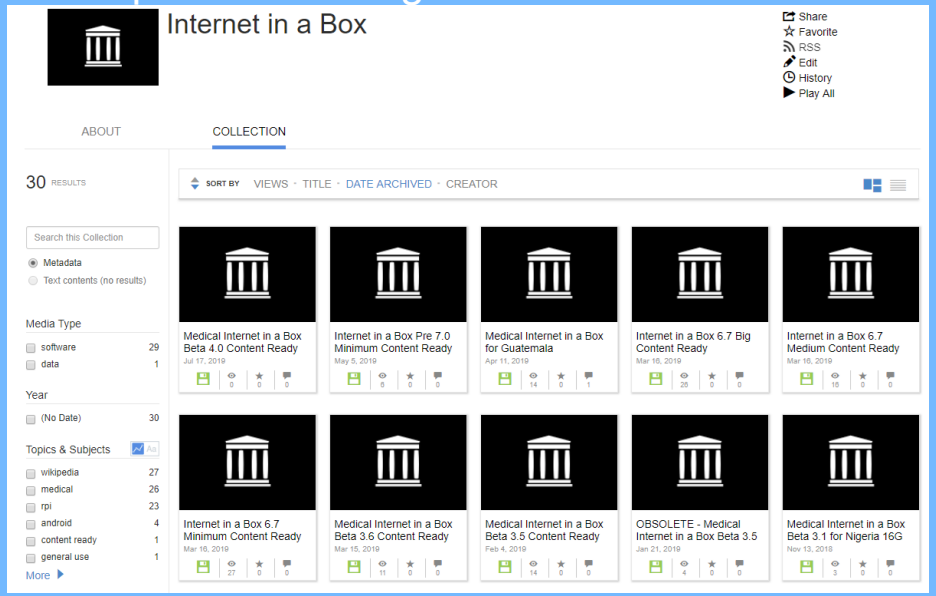


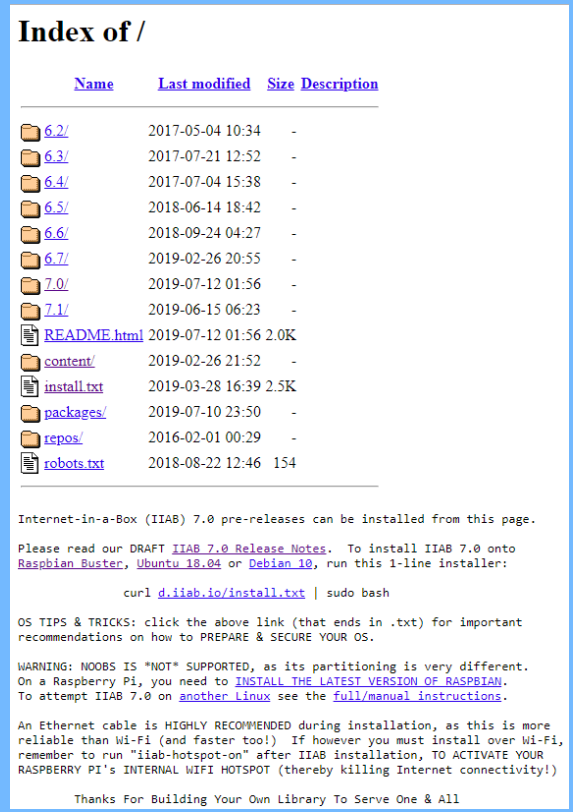
How do I get it?

- Buy it with a curation for a particular audience:
  - James Heilman
  - Thingbits in India
  - Growing list of distributors
- Download a ‘Content Ready’ image from archive.org
  - Write to sd card and get started
  - Customize content
- DiY with scripts that do an entire install

Use Existing or Create New ‘Content Ready’ Image

- Create New using http://download.iiab.io
- Or Download from Internet Archive
- https://archive.org/details/internetinabox





Index of /

Name	Last modified	Size	Description
6.2/	2017-05-04 10:34	-	
6.3/	2017-07-21 12:52	-	
6.4/	2017-07-04 15:38	-	
6.5/	2018-06-14 18:42	-	
6.6/	2018-09-24 04:27	-	
6.7/	2019-02-26 20:55	-	
7.0/	2019-07-12 01:56	-	
7.1/	2019-06-15 06:23	-	
README.html	2019-07-12 01:56	2.0K	
content/	2019-02-26 21:52	-	
install.txt	2019-03-28 16:39	2.5K	
packages/	2019-07-10 23:50	-	
repos/	2016-02-01 00:29	-	
robots.txt	2018-08-22 12:46	154	

Internet-in-a-Box (IIAB) 7.0 pre-releases can be installed from this page.

Please read our DRAFT IIAB 7.0 Release Notes. To install IIAB 7.0 onto Raspbian Buster, Ubuntu 18.04 or Debian 10, run this 1-line installer:

```
curl d.iiab.io/install.txt | sudo bash
```

OS TIPS & TRICKS: click the above link (that ends in .txt) for important recommendations on how to PREPARE & SECURE YOUR OS.

WARNING: NOOBS IS *NOT* SUPPORTED, as its partitioning is very different. On a Raspberry Pi, you need to INSTALL THE LATEST VERSION OF RASPBIAN. To attempt IIAB 7.0 on another Linux see the full/manual instructions.

An Ethernet cable is HIGHLY RECOMMENDED during installation, as this is more reliable than Wi-Fi (and faster too!) If however you must install over Wi-Fi, remember to run "iiab-hotspot-on" after IIAB installation, TO ACTIVATE YOUR RASPBERRY PI's INTERNAL WIFI HOTSPOT (thereby killing Internet connectivity!)

Thanks For Building Your Own Library To Serve One & All

Questions and some Resources

- Demo at http://medbox.iiab.me/home/
- Docs at https://github.com/iiab/iiab/wiki
- FAQ at http://wiki.laptop.org/go/IIAB/FAQ
- Code at https://github.com/iiab/iiab
- Wikipedia Support https://meta.wikimedia.org/wiki/Internet-in-a-Box
- https://www.thingbits.net/products/medical-and-health-internet-in-a-box-south-asia-edition#
- Images at archive.org http://www.archive.org/details/internetinabox
- DiY at http://d.iiab.io