

I

G C I A

A B PD

J





I				
В	D	В	D	
				P
				F P
				DK
J C				





C

G C I

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C

C E

1





D

A C L A

A G

A

С





E

Definitions

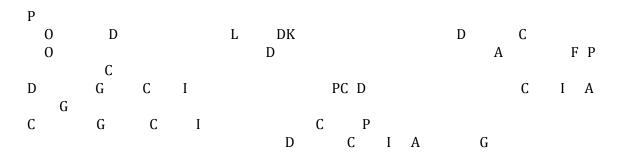




AP B F B P

r L r F M

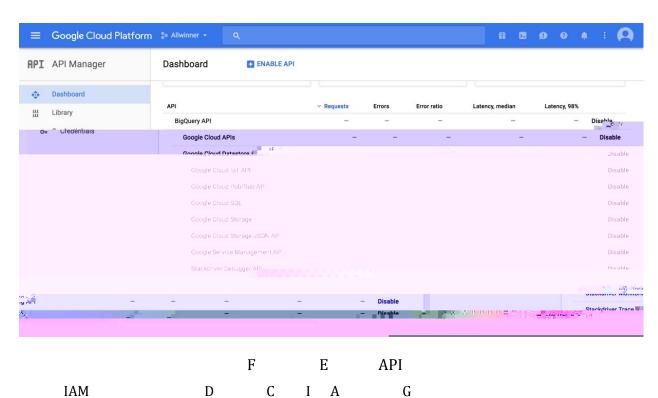
Prerequisites



te project		
wangxiao@allwinnertech.com April 12, 2017 at 9:27:52 AM U		
User	wangxiao@allwinnertech.com	
Resource name	projects/allwinner-164401	
Request		
Project		
Create time	2017-04-12T01:27:45.209Z	
Lifecycle state	ACTIVE	
Name	Allwinner	
Project id	allwinner-164401	
Project number	280303967737	









F IAM
C D C I A G

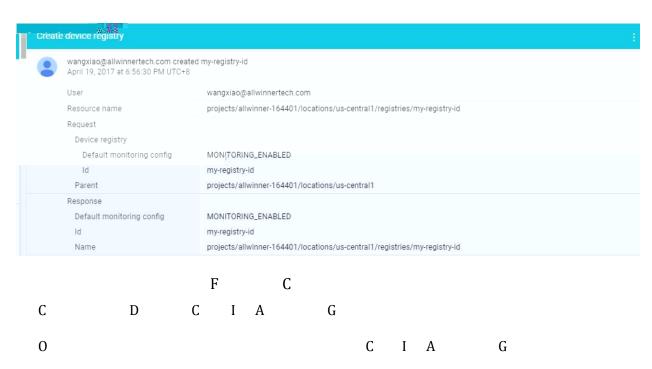


В



C I A

G



G C I I





C D G

1 Download Tina Linux from GitHub or FTP server

L F G H A

\$ curl https://raw.githubusercontent.com/tinalinux/repo/stable/repo
\$ chmod +x ~ /bin/repo
\$ export PATH=\$PATH:~/bin/
\$ mkdir tina && cd tina
\$ repo init - u https://github.com/tinalinux/manifest -b r18-v0.9 -m r18/v0.9 xml
\$ repo sync
\$ repo start r18-v0.9 --all

\$ chmod +x ~ /bin/repo
\$ export PATH=\$PATH:~/bin/
\$ mkdir tina && cd tina
\$ repo init - u https://code.csdn.net/tinalinux/manifest.git -b r18-v0.9 -m r18/v0.9-csdn.xml
\$ repo sync
\$ repo start r18-v0.9 --al.

 $\label{eq:force_def} F \qquad \qquad D \qquad \qquad L \qquad \qquad C \ DN \quad C$

2 Necessary modules needed by Google Cloud IoT demo on Tina SDK

P L DK M



DK

L C L

You're building on Linux

Lunch menu... pick a combo:

1. octopus_dev-tina
2. octopus_dev-dragonboard
3. tulin_m64-dragonboard
4. tulin_m64-dragonboard
5. astar_evb-tina
6. tulin_nine64-tina...
7. tulin_piii b4-dragonboard
8. octopus_sch-tina
2. octopus_sch-dragonboard
10. sitan

F

N I P

Р

L P

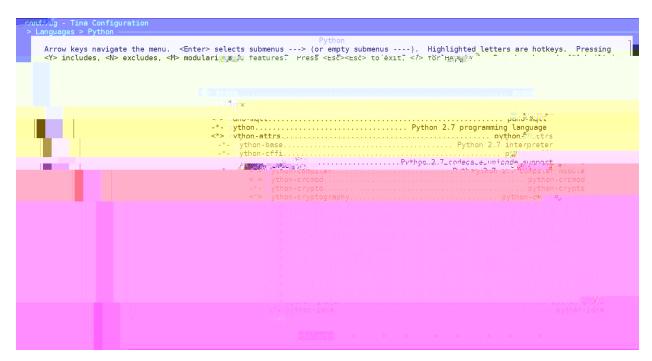




M

P

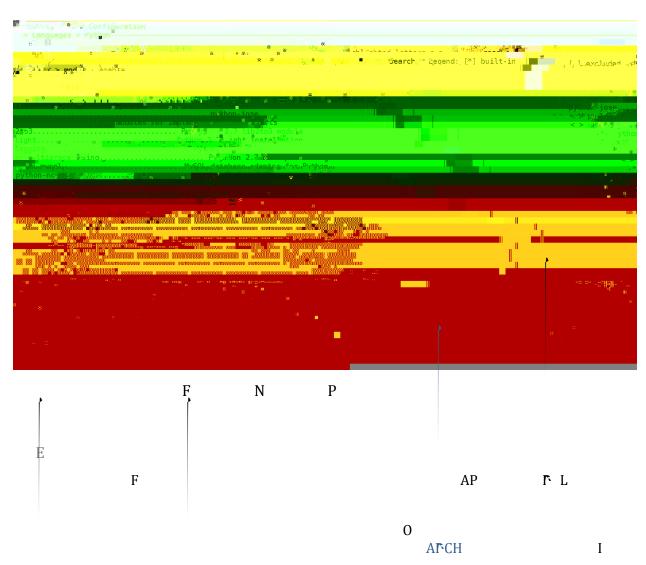
G C I



F N P



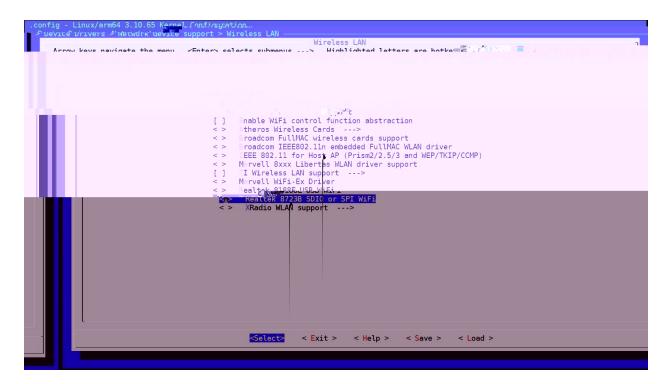




F r L r L







F F L







F

F F

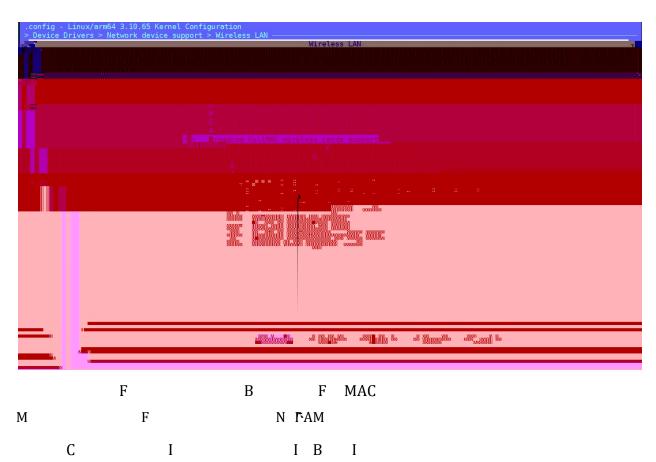














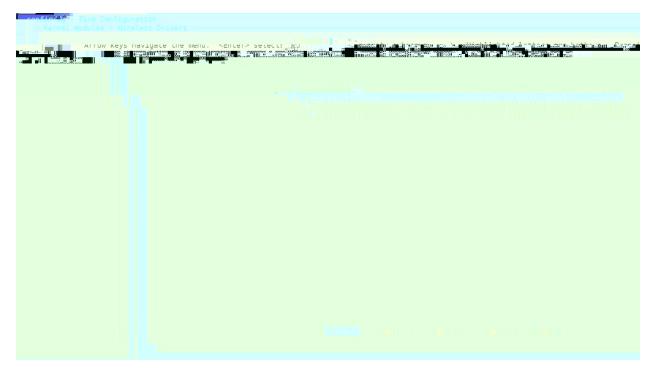




 $F \hspace{1cm} C \hspace{1cm} I \hspace{1cm} B \hspace{1cm} I \hspace{1cm}$







AP







F AP

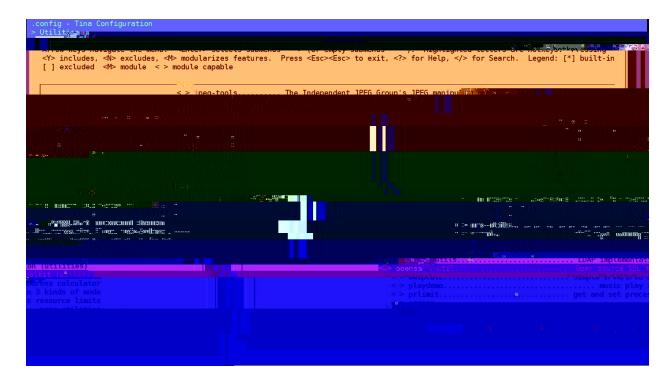
B F F I

E G C I PC

E







F

3 Compile the Tina Linux and flash the firmware on board

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```
make[2]: Leaving directory `/home/wangxiao/workspace/tina_2.0'
make[1]: Leaving directory `/home/wangxiao/workspace/tina_2.0'
#### make completed successfully (44 seconds) ####
```

F





A F



F A F

F

/home/wangxiao/workspace/tina_2.0/out/tulip-d1/tina_tulip-d1 card0_ima_pack finish

F

P

M

4 Run Google Cloud IoT Demo on Tina





```
BusyBox v1.24.1 () built-in shell (ash)
     8.110129] CPU1: shutdown
8.113114] psci: CPU1 killed.
      _[[_[
                           Tina is Based on OpenWrt!
Tine inux (Nonthepcu58743074) >EU,
    root@TinaLinux:/#
    root@TinaLinux:/#
    root@TinaLinux:/#
root@TinaLinux:/#
root@TinaLinux:/#
       printk_delay
                                    printk_ratelimit_burst
       root@TinaLinux:/# echo 4 > /proc/sys/kernel/printk
root@TinaLinux:/# python
Python 2.7.11 (default, Apr 17 2017, 07:00:02)
[GCC 5.2.1] on linux2
Type "help", "cf ight", "credits" or "license" for more information
         >>>
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                                                                 0.D
    ID
             P
  F
   root@TinaLinux:/# wifi_connect_ap_test "SSID" "PASSWORD"
    ********
    ***Start wifi connect ap test!***
   wpa_suppplicant not running!
   ctrl_interface != /etc/wifi/sockets
                              F
                                           C
                                                      I
      F
```





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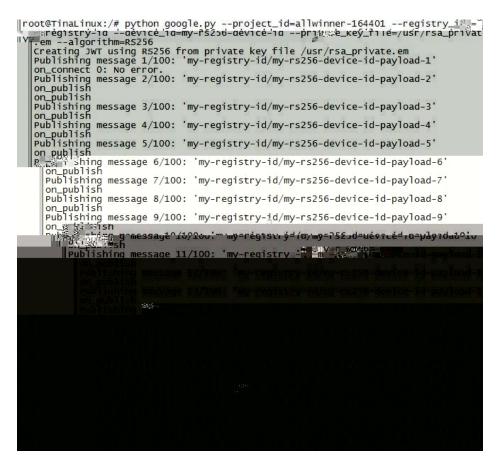
F G C I

F

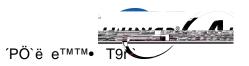
r.



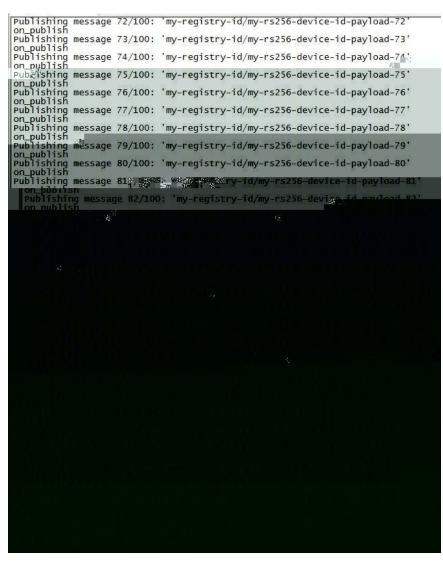




F D







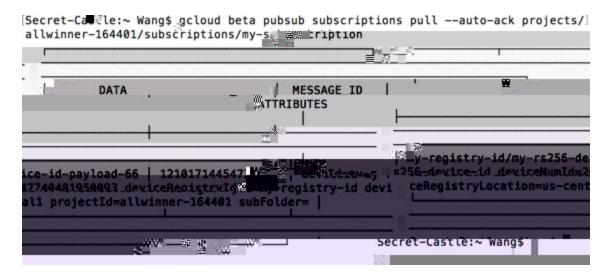
F D L

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¿FYTMTÑ & A@ ¿!FYTMTÑ & AG\$4 • Aëñ eTMTM• `VC bA@Ù ¤ ¿al!Y\$Đ9x") H







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"Cloud IoT (Alpha) - User Guide", handrei@, eschapira@, mkess@,malter@, indchak@google.com02/20/2017





roots.pem ਤੀ ਸਹਦਾ ਸਿਤਵਾਂ ਹੈ ਤੋਂ ਹੈ ਤ

