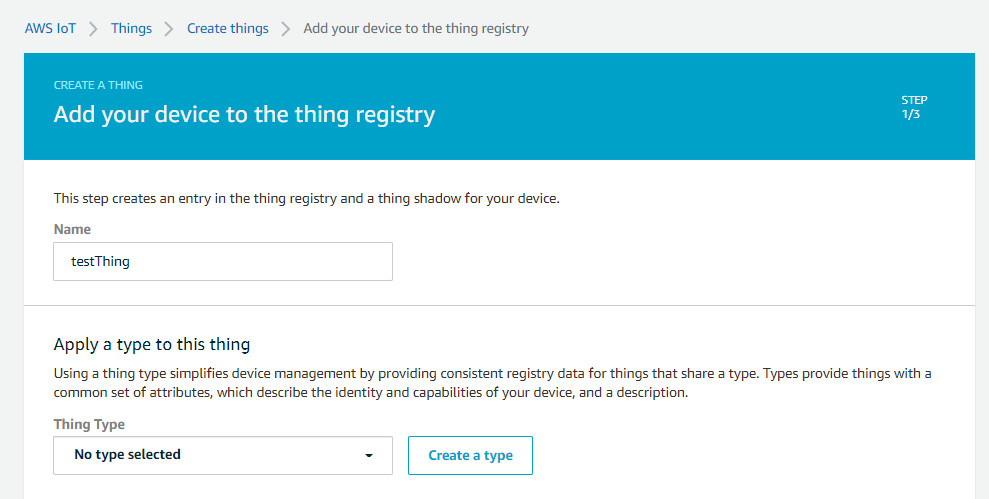
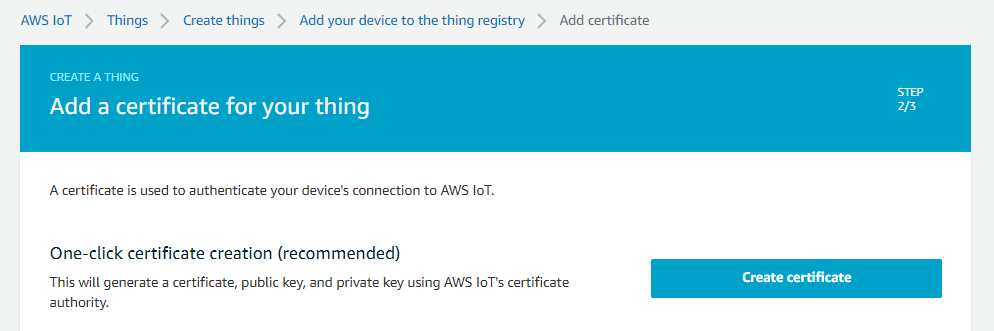
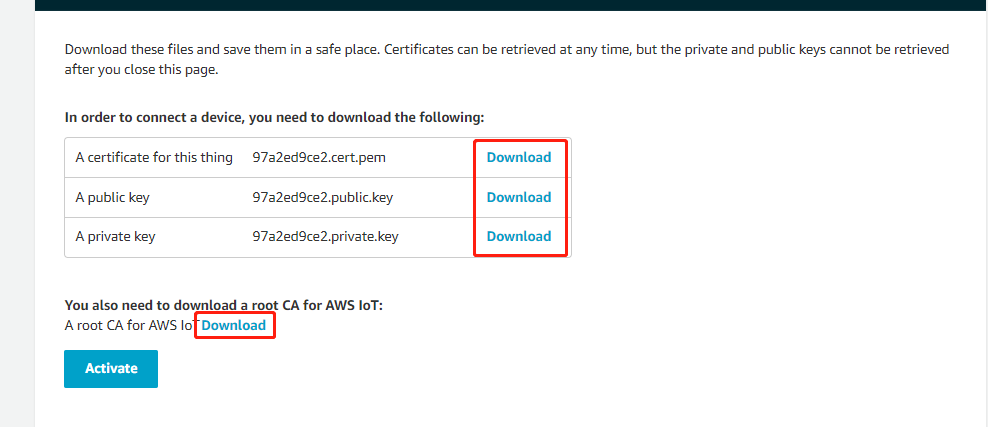
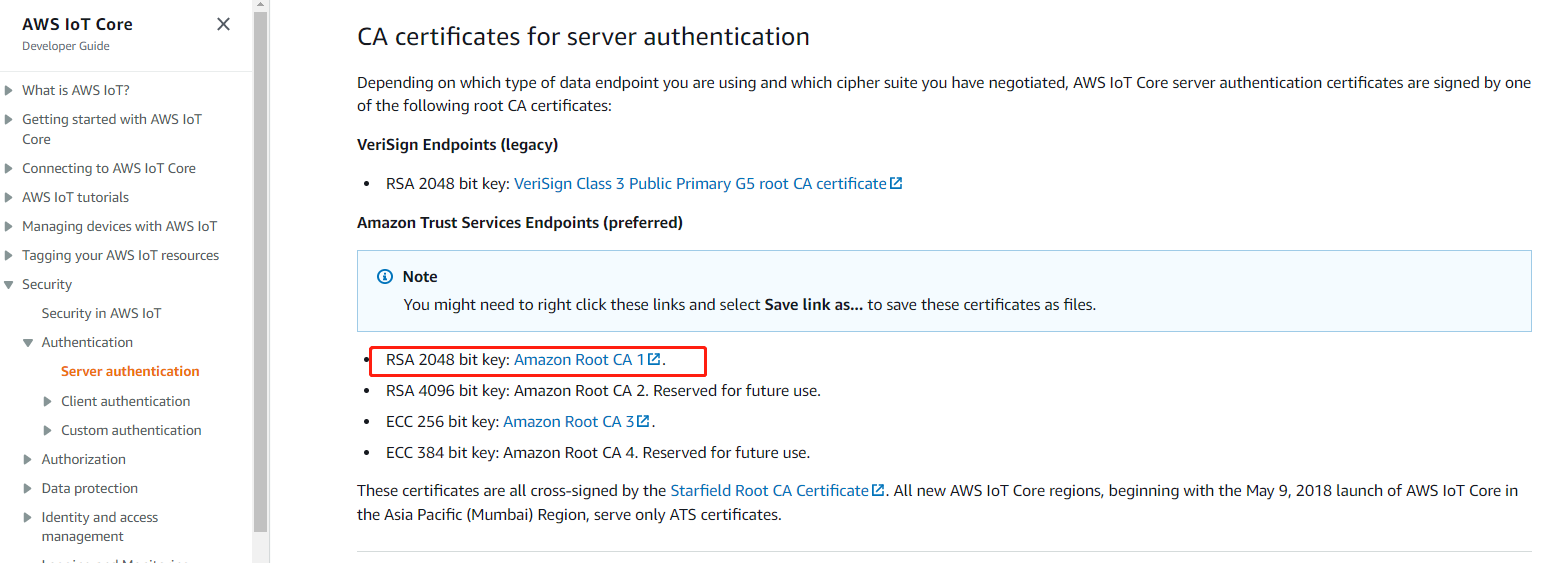
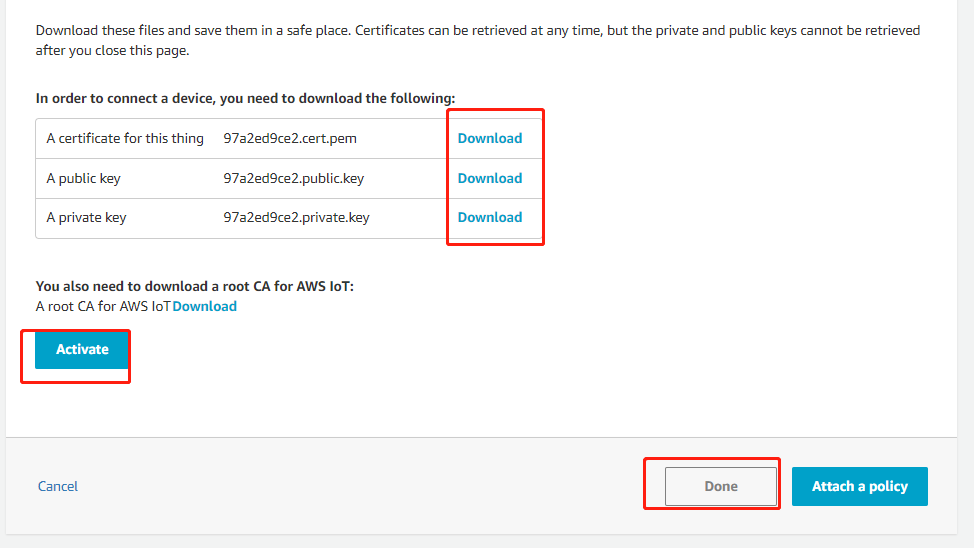
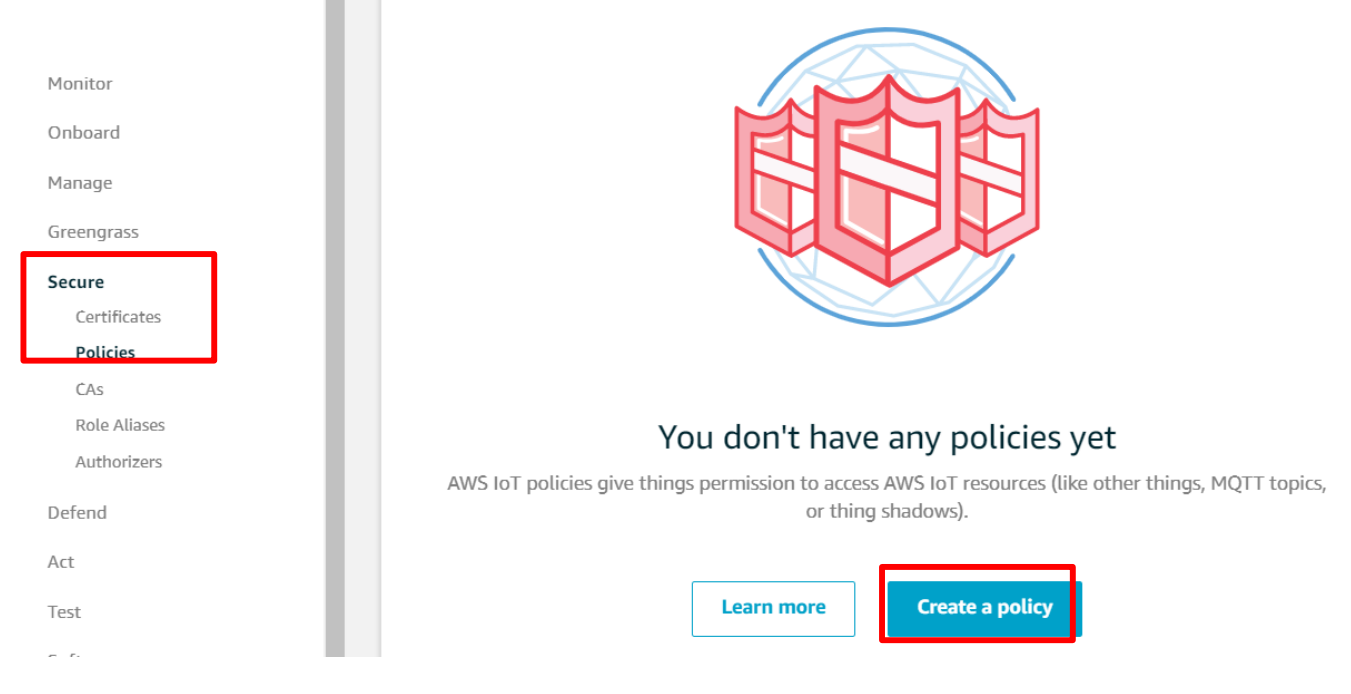
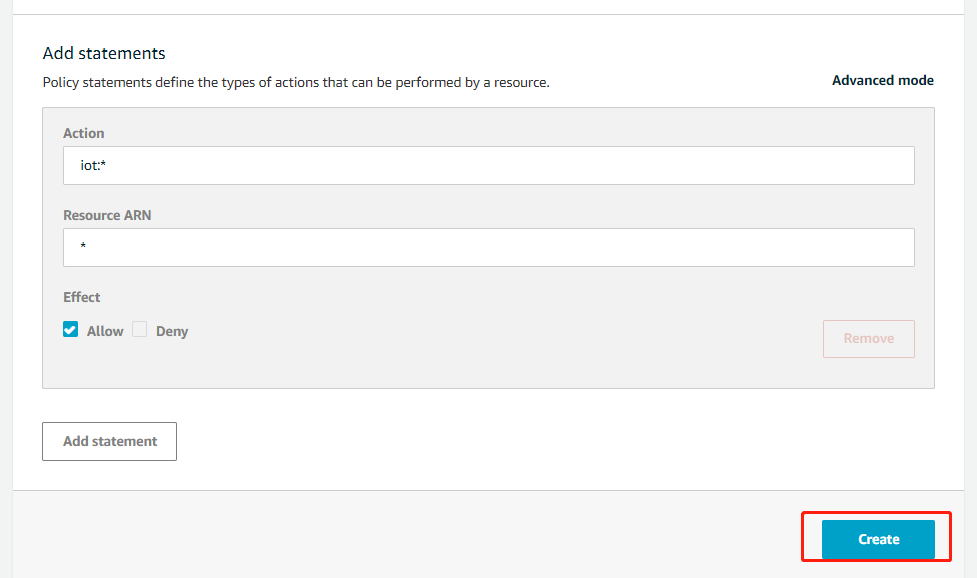
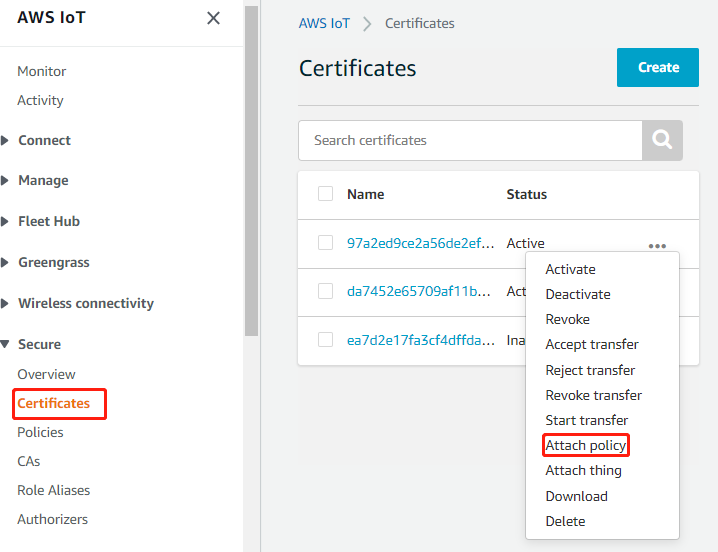
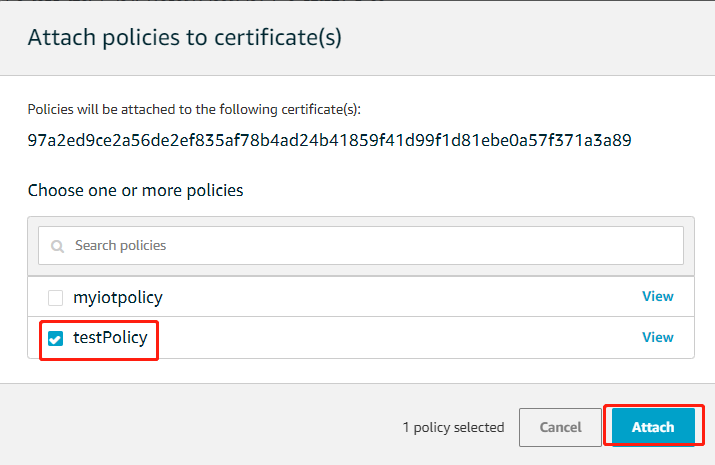
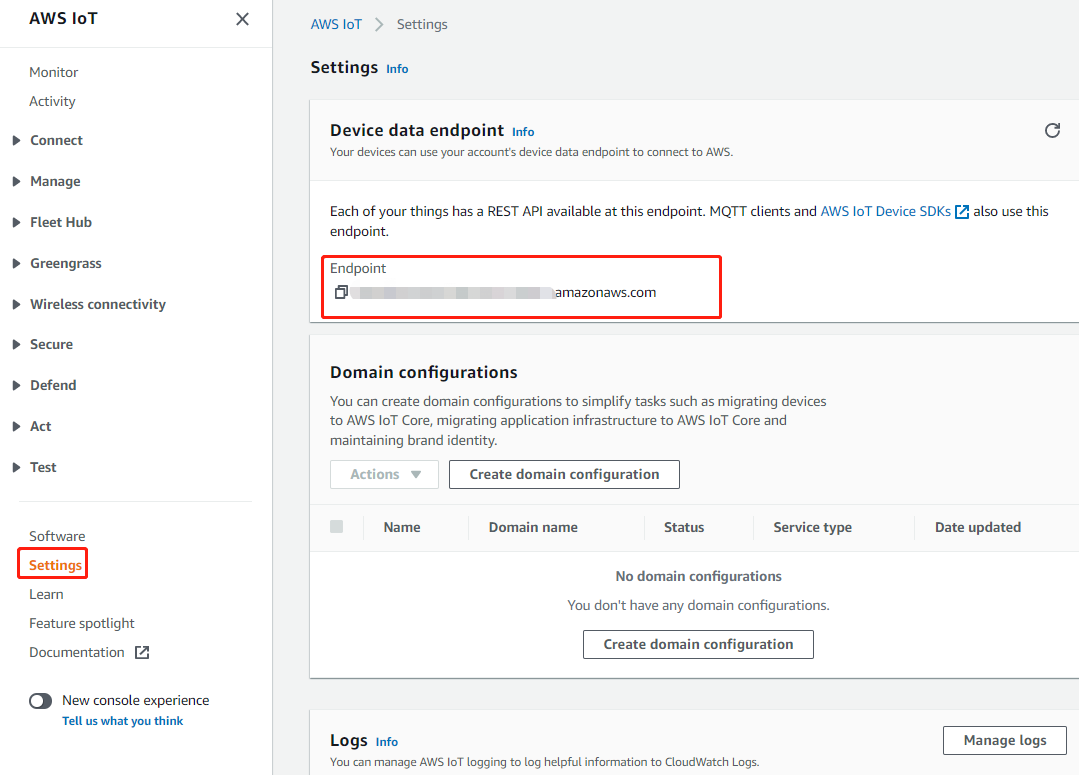
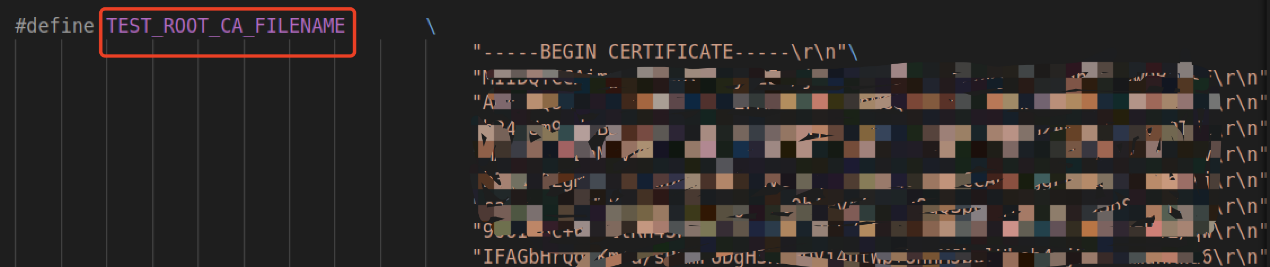
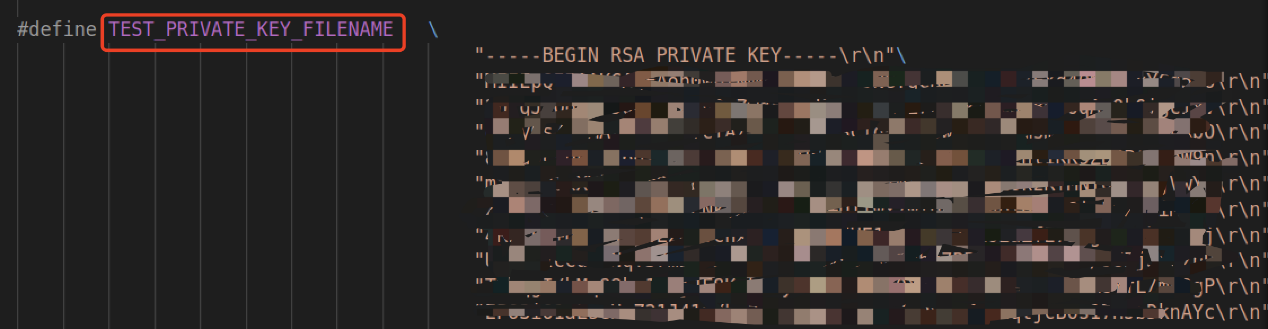
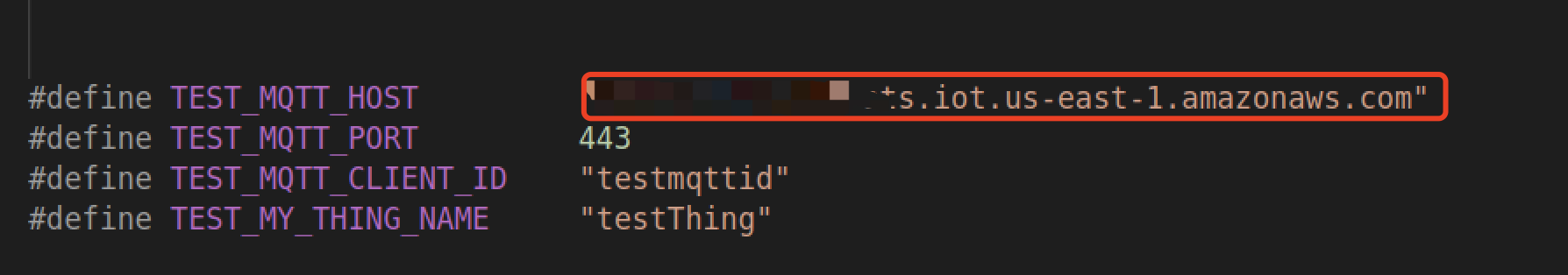
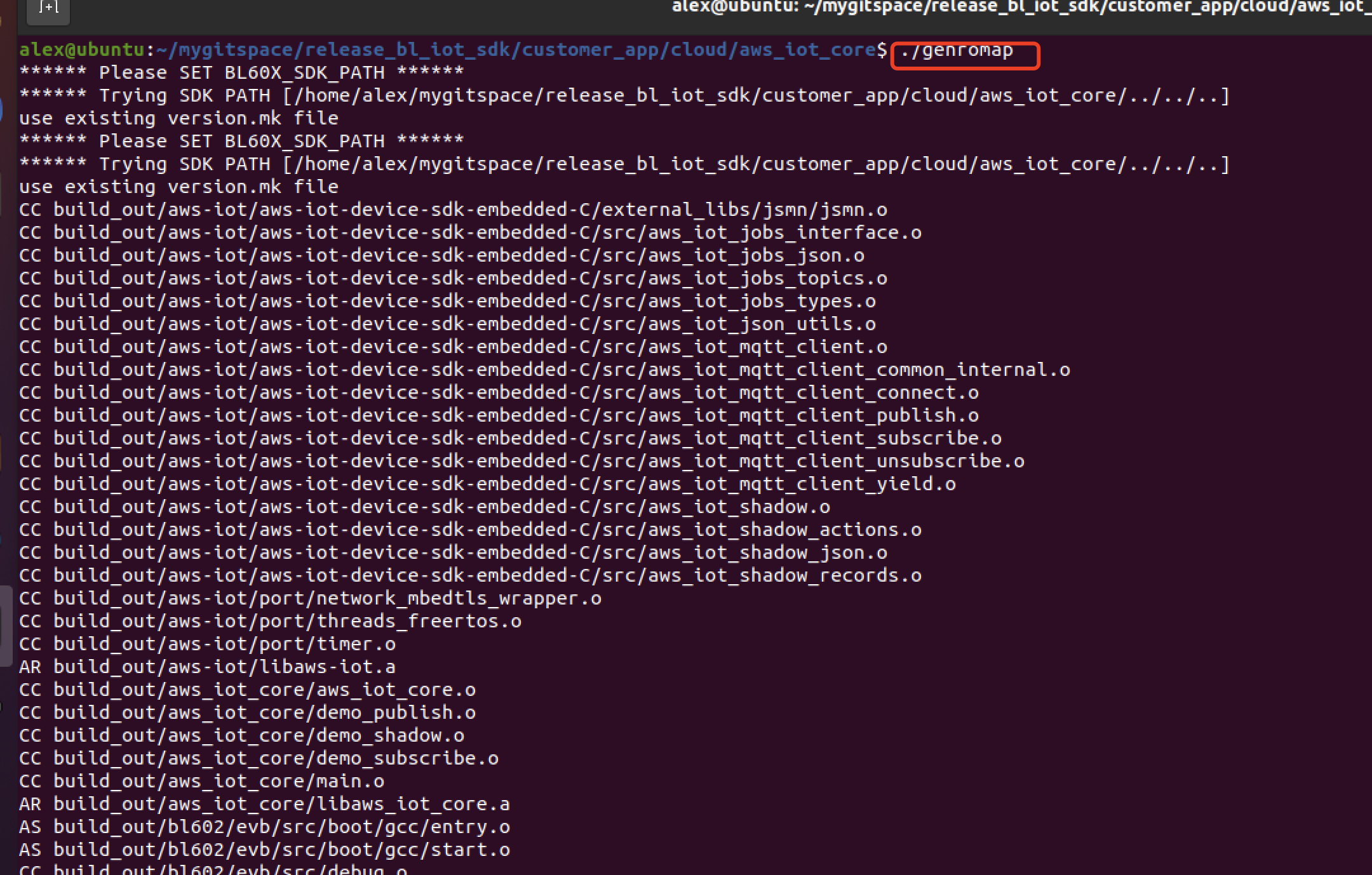
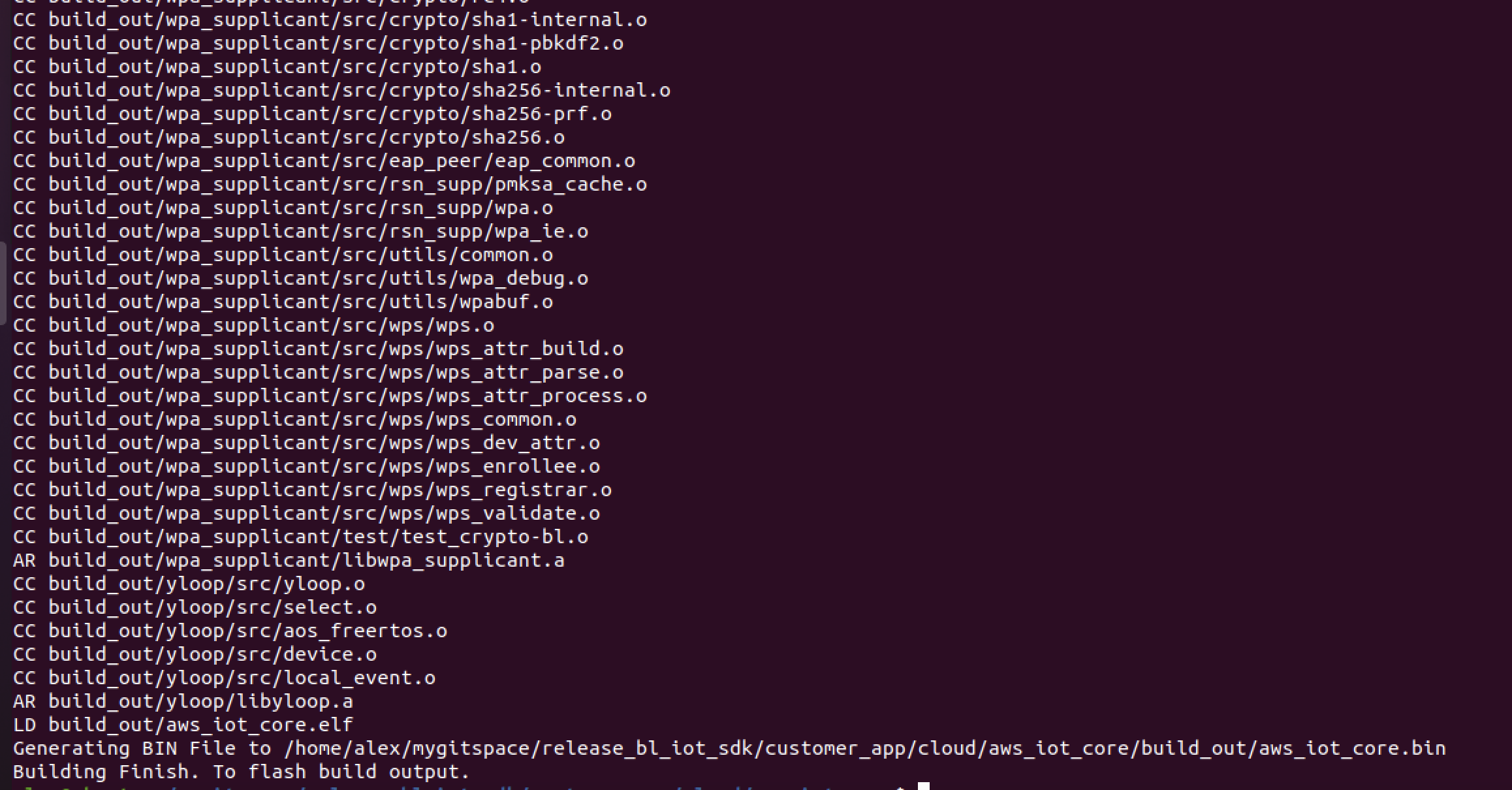
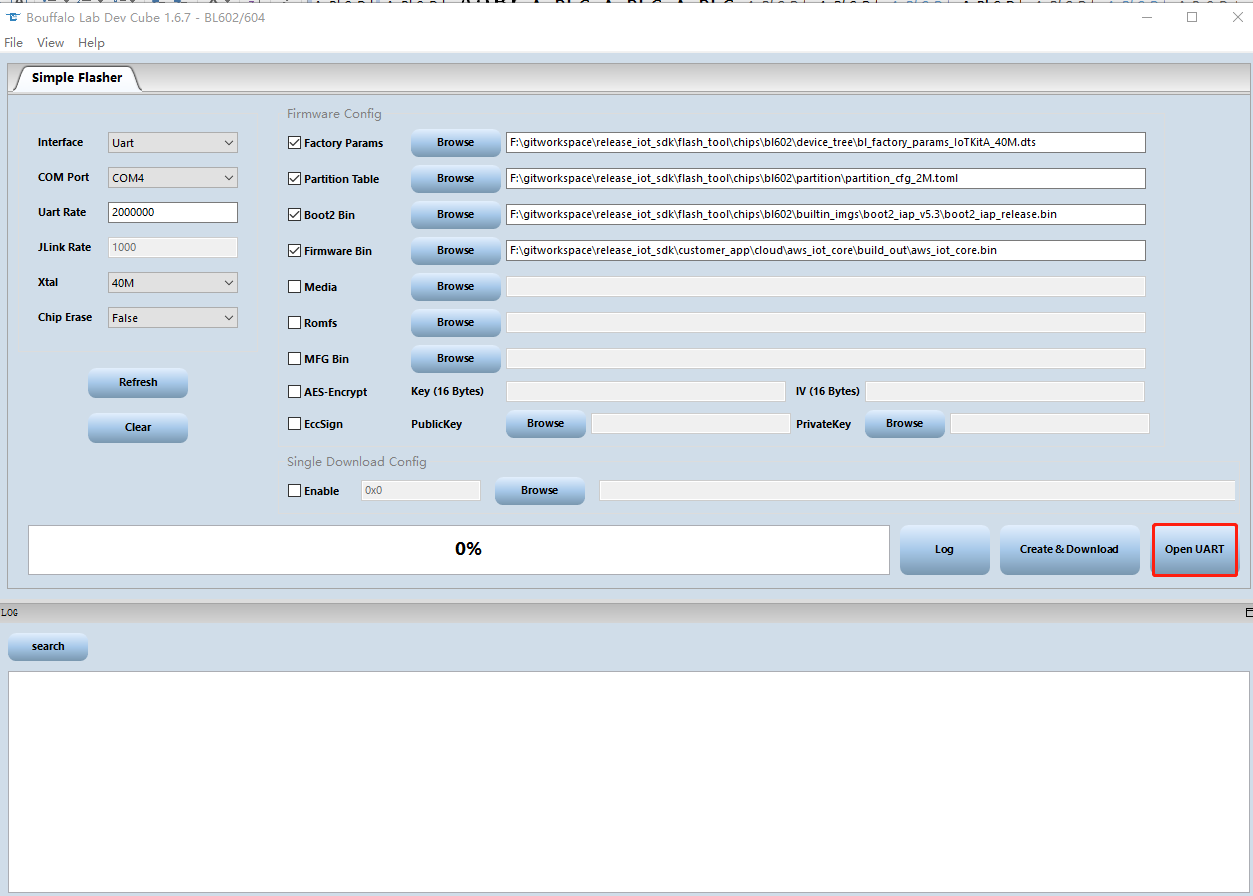
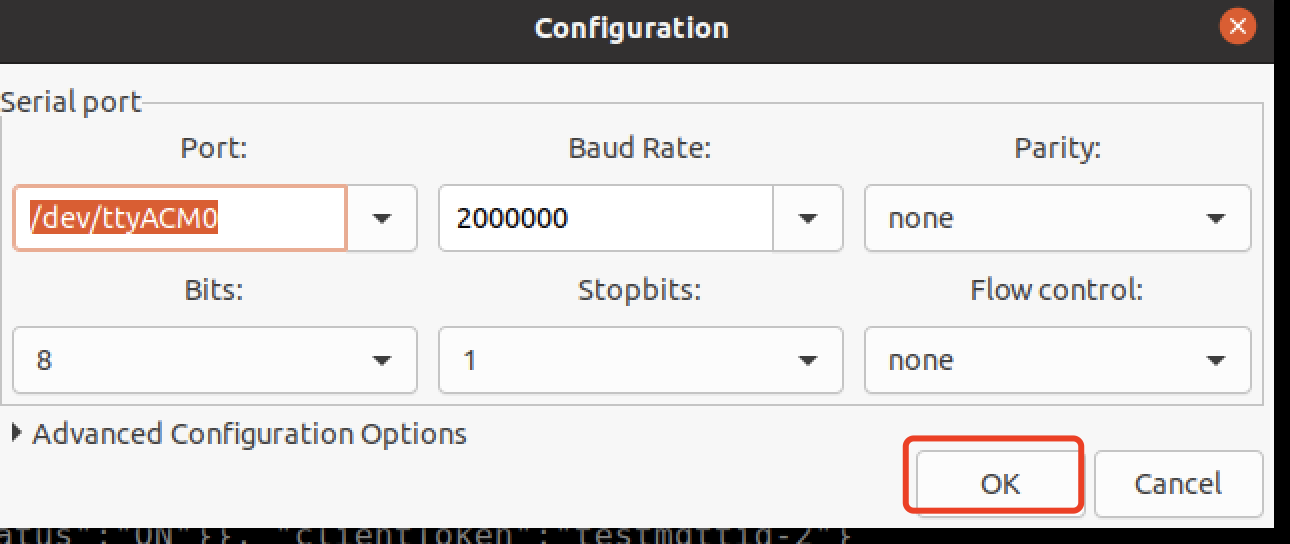
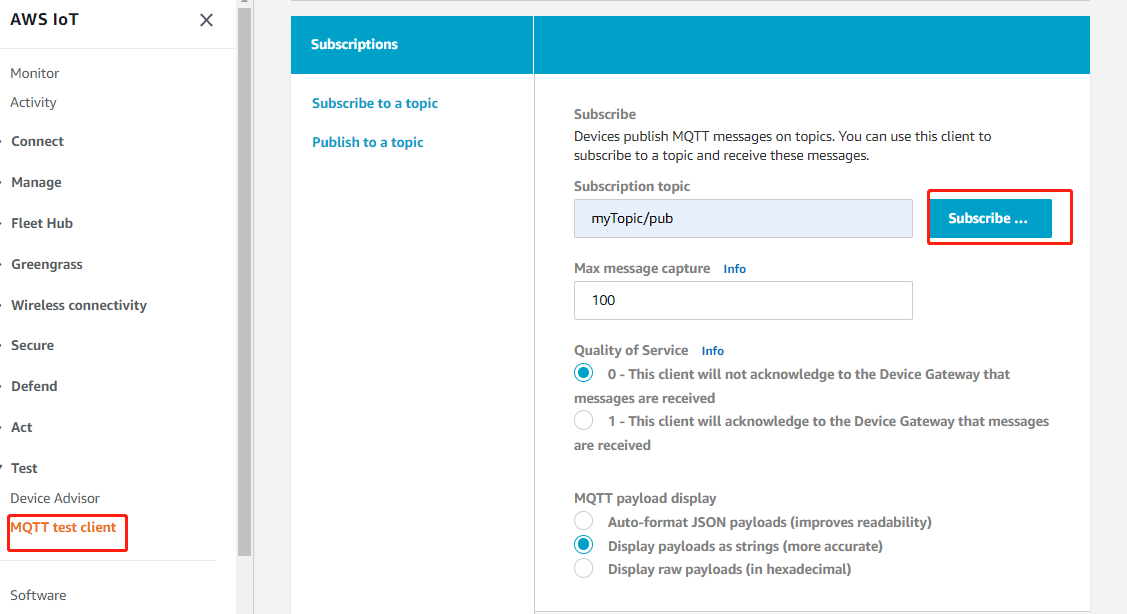
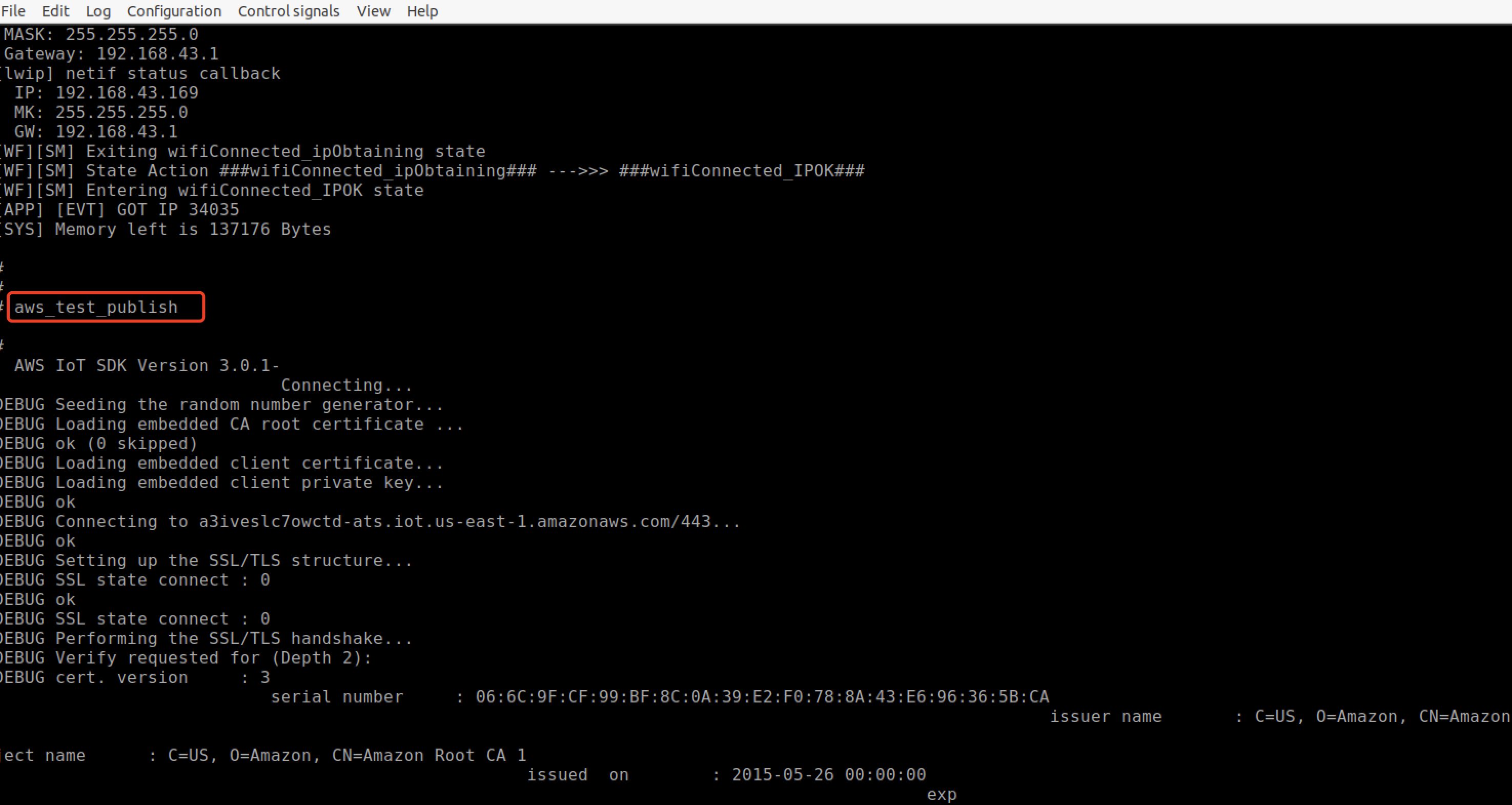
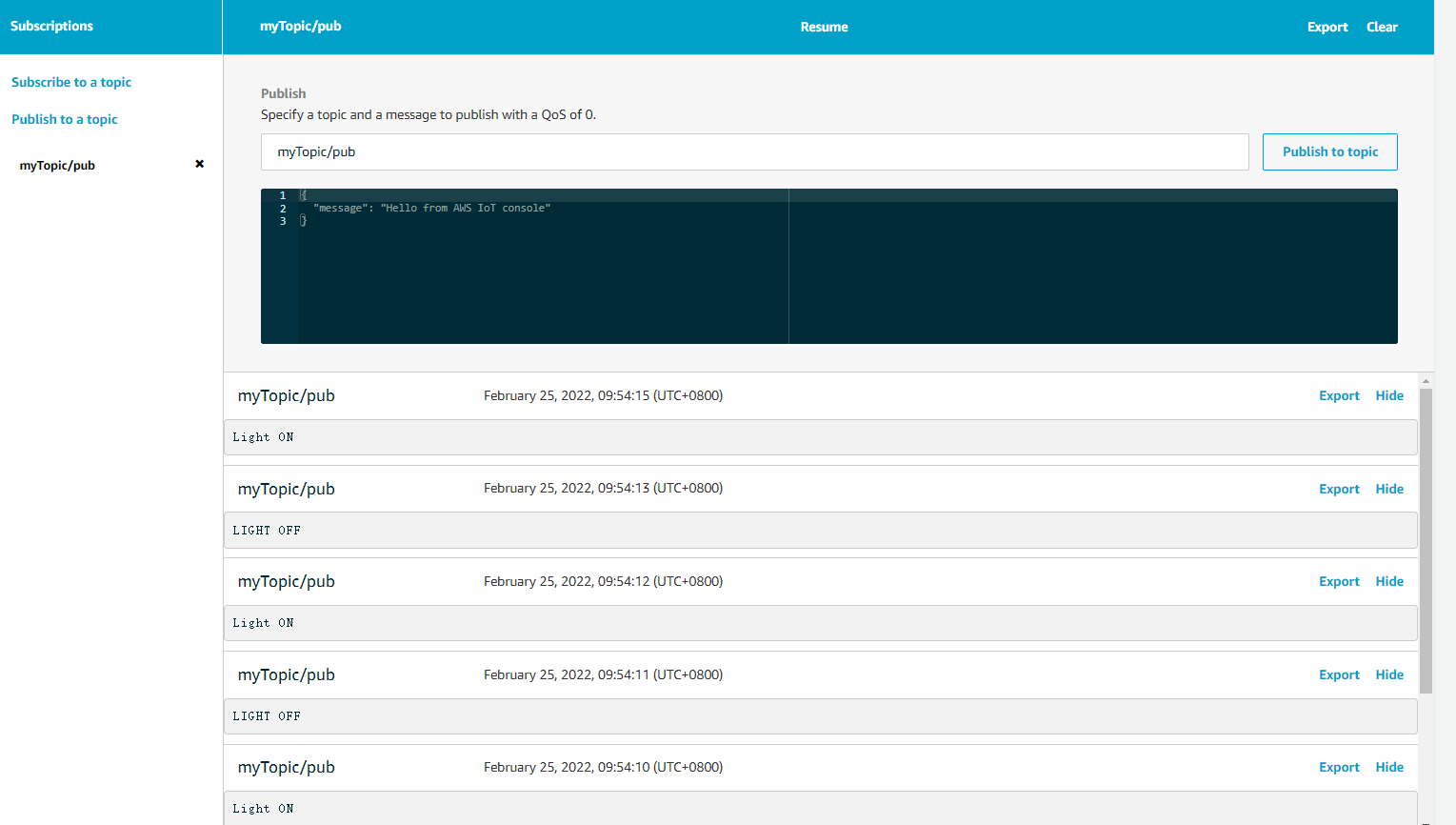
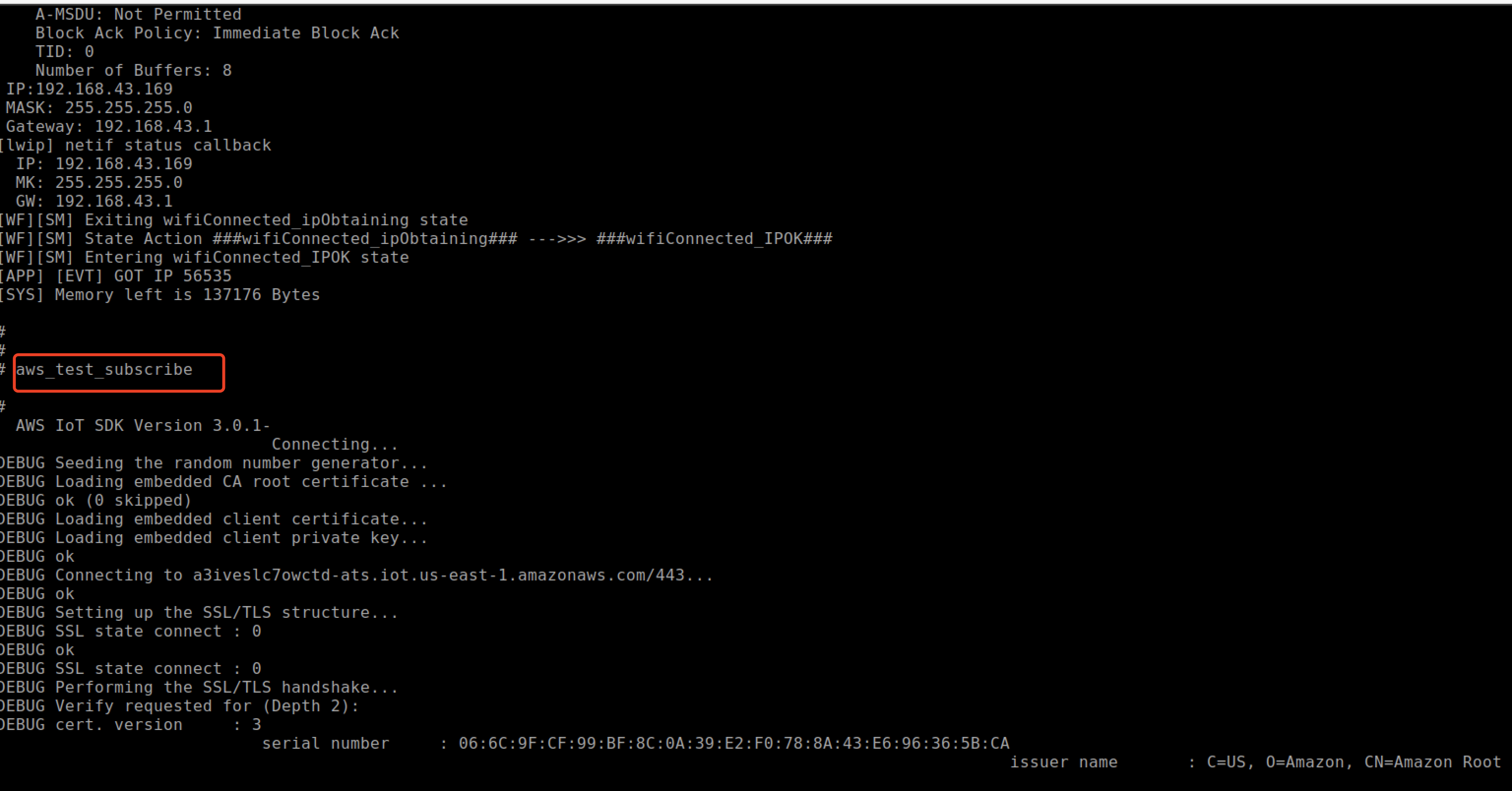
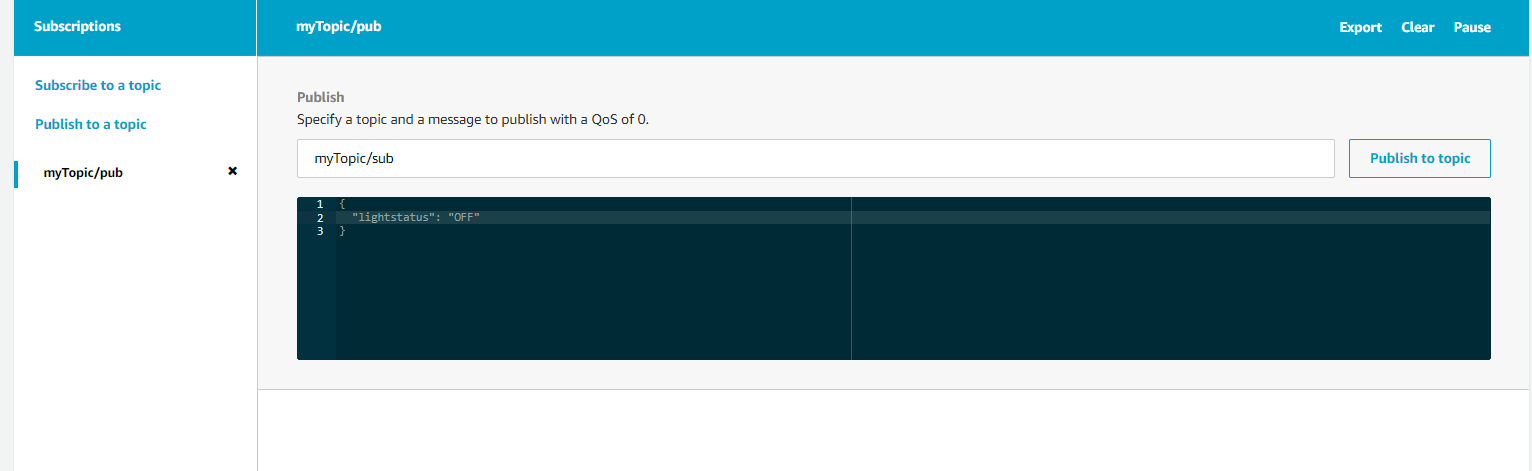
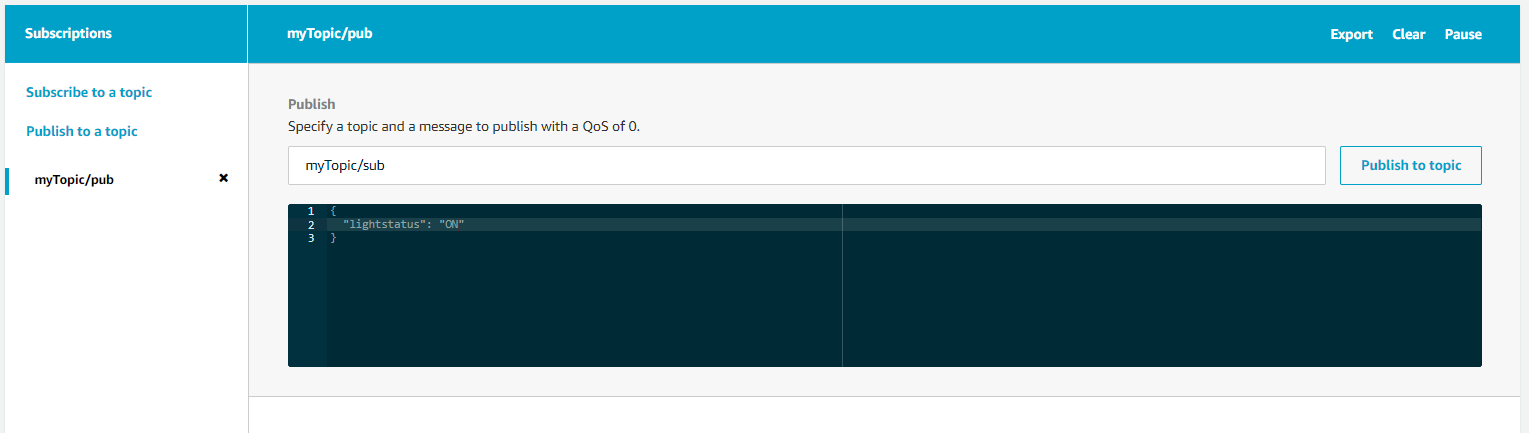
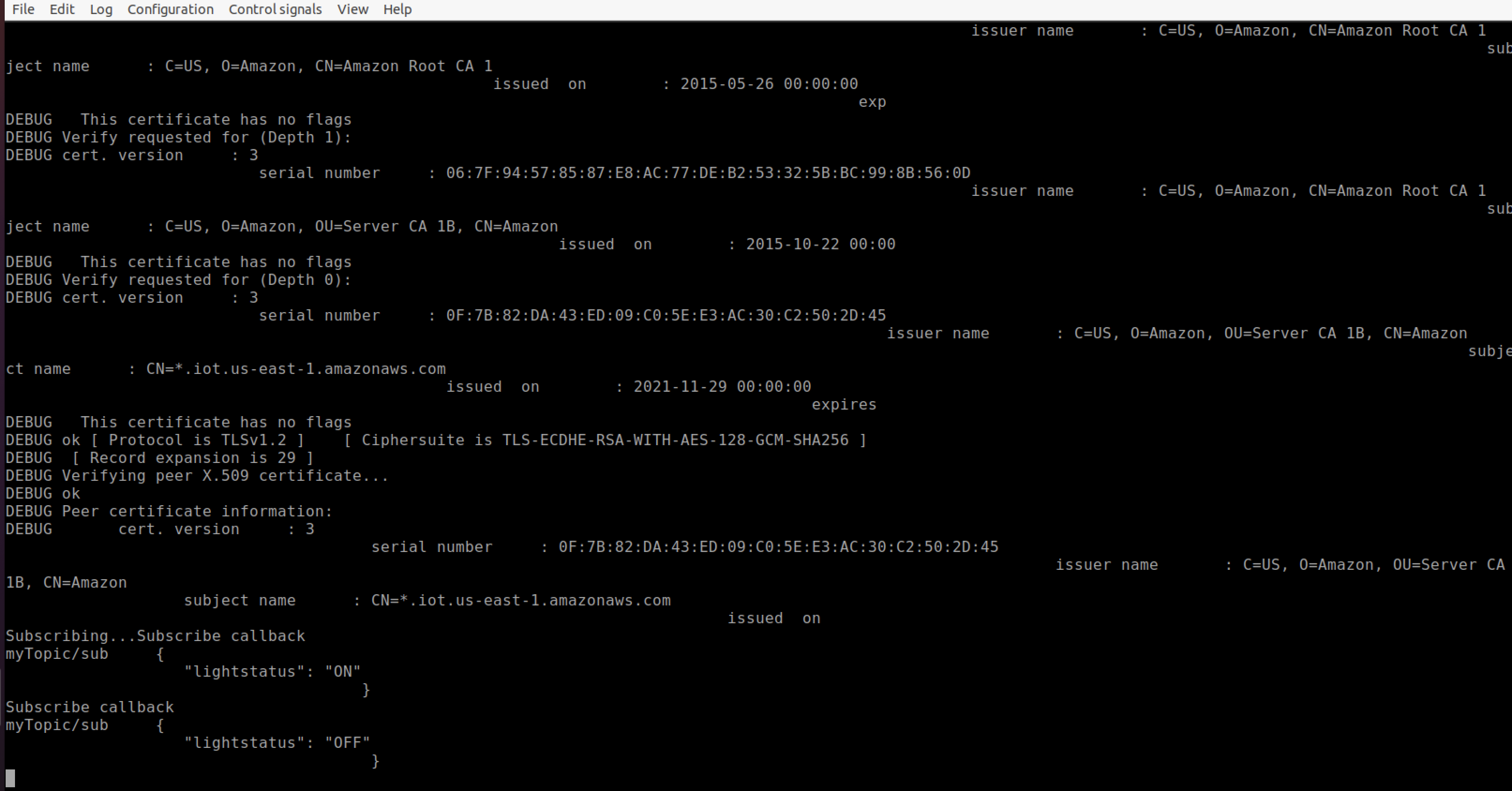
# 1.Setting up AWS IoT Core A. Visit AWS IoT Core Console and select Manage - Things from the left menu, then click Register a thing button. B. Click Create a single thing button. C. Type “testThing” in the Name filed, then scroll down and click Next button.

  
**D. Click Create certificate button** **E. Download all of files and save them in a safe place. Make sure that you download private key and public key as they cannot be retrieved after you close this page.** **F. Regarding root CA for AWS IoT, download RSA 2048 bit key: Amazon Root CA 1.** **G. After making sure you have downloaded private key and public key (and certificate and Amazon root CA), scroll down and click Activate button, then click Done button.** **H. Select Secure - Policies from left menu and click Create policy button.** **I. Type “iot:\*” in the Action filed, “\*” in the Resource ARN field, check Allow and click Create button.** **J. Click Secure - Certificates from left menu then click three dots menu on your certificate, and then click Attach policy.** **K. Check testPolicy you just created and click Attach button.**  
**L.** Checking Your AWS EndpointVisit AWS IoT Core Console and select Settings from the left menu, then copy the Endpoint. You need this in later sections.  


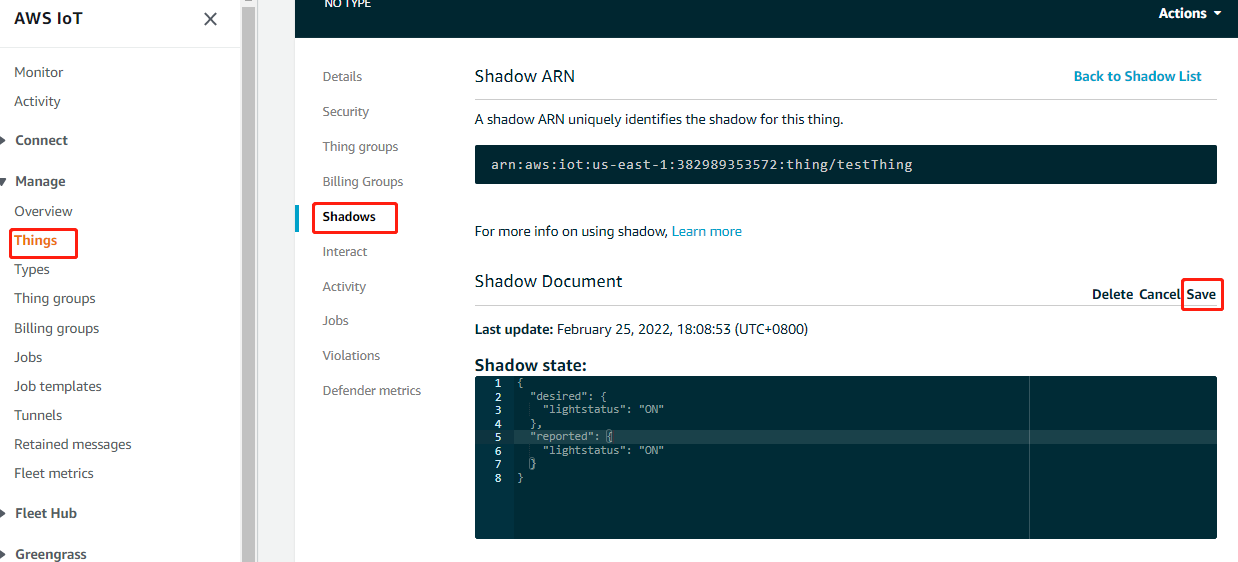
2.运行应用程序  
A.配置证书和Endpoint。添加AmazonRootCA1.pem, XXXXXX-certificate.pem.crt, XXXXX-private.pem.key和Endpoint到 customer\_app/cloud/aws\_iot\_core/aws\_iot\_core/aws\_test\_cert.h  
  
  
  


B.编译aws\_iot\_core。进入customer\_app/cloud/aws\_iot\_core/目录下，执行./ genromap  
   


C.烧录测试固件。串口选择开发板识别的COM口，先按下boot键同时按下rst键后放开进入烧录模式，点击download  
  
D. 配置串口.  
配置串口波特率：2000000  
  
E. Running Publisher Application.  
step1:RESET 开发板

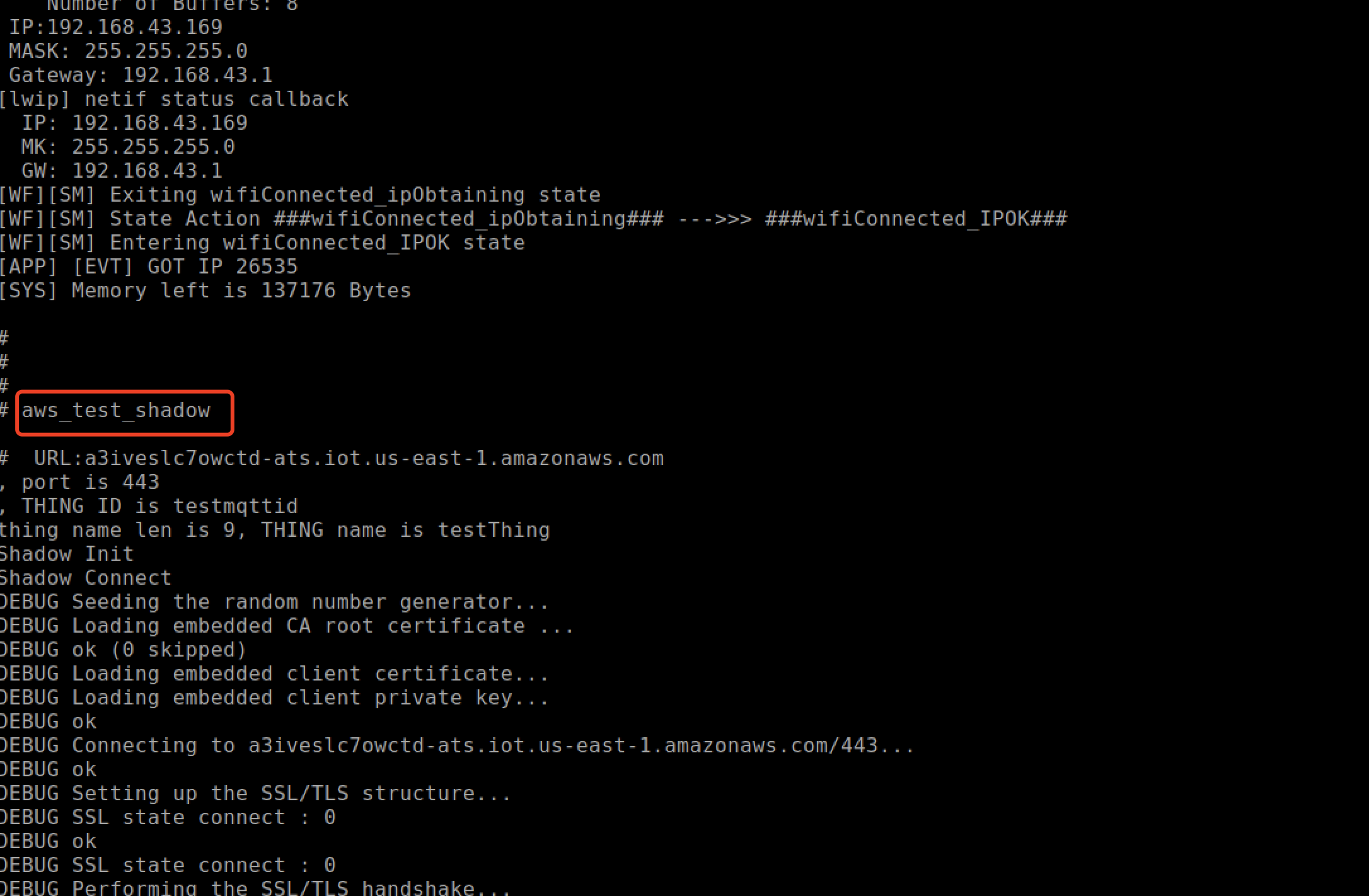
Step2: 在AWS IoT控制台订阅myTopic/pub主题  
  
step3:在串口终端输入连接路由器命令 wifi\_sta\_connect ssid password   
  
step4:连接路由器成功后，输入aws\_test\_publish命令  
  
step5: 在AWS IoT控制台查看订阅的数据。收到Light ON/Light OFF消息。  
F. Running Subscriber Application  
step1:RESET 开发板  
step2:在串口终端输入连接路由器命令 wifi\_sta\_connect ssid password   
  
step3: 连接路由器成功后，输入aws\_test\_subscribe  
  
step4: 在AWS IoT控制台发布myTopic/sub主题。  
  
  
step5: 在串口终端查看接收数据  
  
G. Running AWS Shadow Application  
step1:RESET 开发板

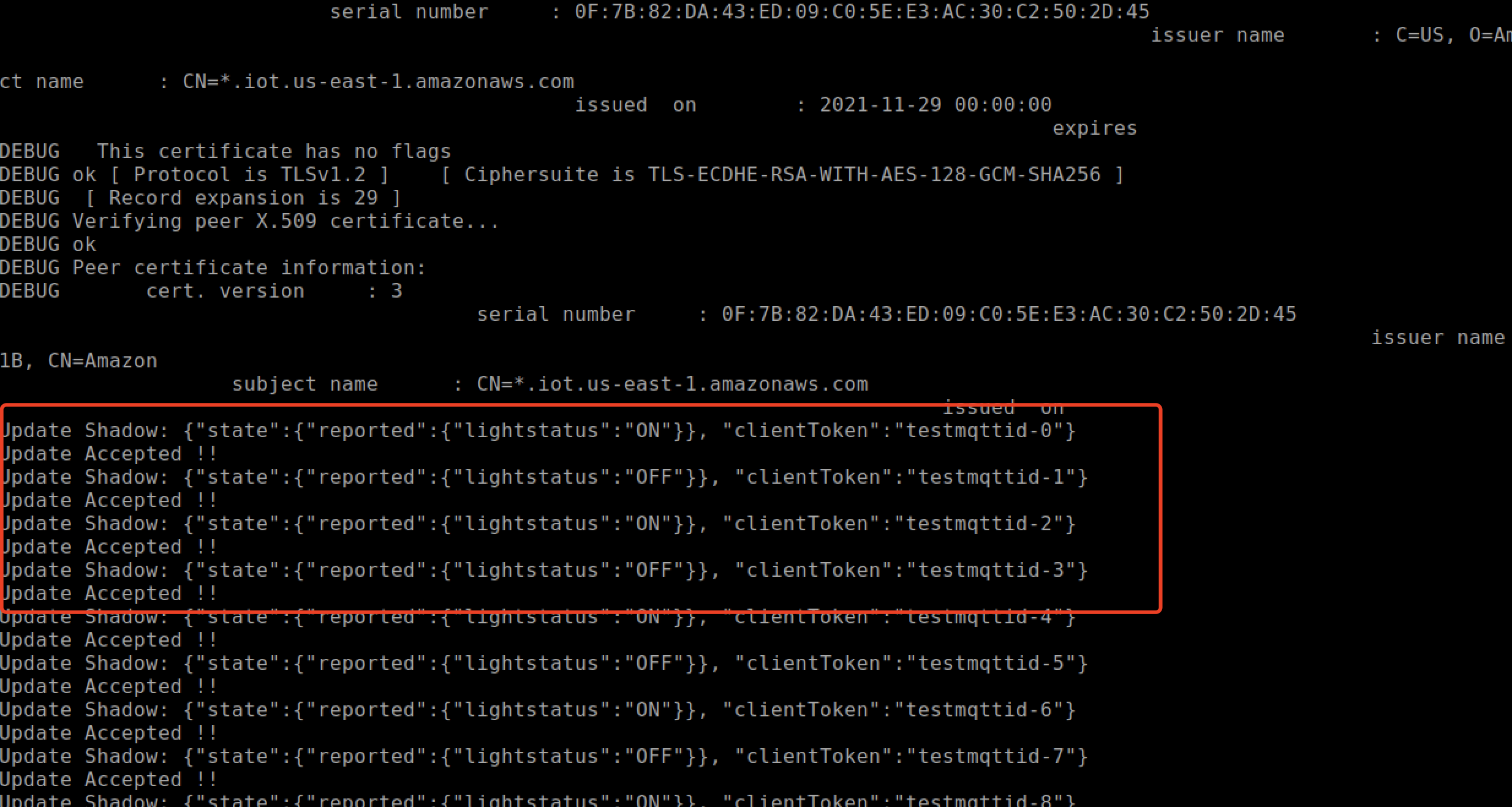
step2: 在AWS IoT控制台编辑shadow state

  
step3:在串口终端输入连接路由器命令 wifi\_sta\_connect ssid password



Step4: 连接路由器成功后，输入aws\_test\_shadow

  
Step5: 在串口终端查看更新shadow data

  
Step6: 在AWS IoT控制台查看更新shadow data  
