Application Note AZURE_prov_X.509 Example

Version 1.0.0



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1 Introduction

This Application Note covers the implementation of AZURE prov X.509 authentication and the generation of X.509 certificates on WIZnet's TOE Chip.

2 Github Link

https://github.com/WIZnet-ioNIC/WIZnet-PICO-AZURE-C.git

3 Applicable products

Raspberry Pi Pico & WIZnet Ethernet HAT W5100S-EVB-Pico W5500-EVB-Pico W55RP20-EVB-Pico W5100S-EVB-Pico2 W5500-EVB-Pico2

4 How to Test AZURE prov X.509 Example

4.1 Step 1: Prepare software

The following serial terminal program is required for AZURE prov X.509 example test, download and install from below links.

• <u>Tera Term</u>

4.2 Step 2: Prepare hardware

If you are using W5100S-EVB-Pico, W5500-EVB-Pico, W55RP20-EVB-Pico, W5100S-EVB-Pico2 or W5500-EVB-Pico2, you can skip '1. Combine...'

- 1. Combine WIZnet Ethernet HAT with Raspberry Pi Pico.
- Connect ethernet cable to WIZnet Ethernet HAT, W5100S-EVB-Pico, W5500-EVB-Pico, W55RP20-EVB-Pico, W5100S-EVB-Pico2 or W5500-EVB-Pico2 ethernet port.
- Connect Raspberry Pi Pico, W5100S-EVB-Pico or W5500-EVB-Pico to desktop or laptop using 5 pin micro USB cable. W55RP20-EVB-Pico, W5100S-EVB-Pico2 or W5500-EVB-Pico2 require a USB Type-C cable.



4.3 Step 3: Setup AZURE prov X.509 Example

To test the AZURE prov X.509 example, minor settings shall be done in code.

1. Setup SPI port and pin in 'w5x00_spi.h' in 'WIZnet-PICO-AZURE-C/port/ioLibrary_Driver/' directory.

Setup the SPI interface you use.

 If you use the W5100S-EVB-Pico, W5500-EVB-Pico, W5100S-EVB-Pico2 or W5500-EVB-Pico2.

```
/* SPI */
#define SPI_PORT spi0
#define PIN_SCK 18
#define PIN_MOSI 19
#define PIN_MISO 16
#define PIN_CS 17
#define PIN_RST 20
```

 If you want to test with the AZURE prov X.509 example using SPI DMA, uncomment USE SPI DMA.

```
/* Use SPI DMA */
//#define USE_SPI_DMA // if you want to use SPI DMA, uncomment.
```

If you use the W55RP20-EVB-Pico,

```
/* SPI */
#define USE_SPI_PIO
#define PIN_SCK 21
#define PIN_MOSI 23
#define PIN_MISO 22
#define PIN_CS 20
#define PIN_RST 25
```

2. In 'WIZnet-PICO-AZURE-C/examples/main.c', uncomment APP_PROV_X509 to choose the sample application.

```
(...)
// The application you wish to use should be uncommented
//
//#define APP_TELEMETRY
//#define APP_C2D
//#define APP_CLI_X509
#define APP_PROV_X509
```



- 3. Setup network configuration such as IP in ' main.c', which is the AZURE prov X.509 example in 'WIZnet-PICO-AZURE-C/examples/' directory.
- Setup IP, other network settings to suit your network environment.

```
// The application you wish to use DHCP mode should be uncommented
#define _DHCP
static wiz_NetInfo g_net_info =
    {
        .mac = {0x00, 0x08, 0xDC, 0x12, 0x34, 0x56}, // MAC address
        .ip = {192, 168, 11, 2},
                                                     // IP address
        .sn = {255, 255, 255, 0},
                                                     // Subnet Mask
        .gw = {192, 168, 11, 1},
                                                     // Gateway
                                                     // DNS server
        .dns = {8, 8, 8, 8},
#ifdef _DHCP
        .dhcp = NETINFO_DHCP // DHCP enable/disable
#else
        // this example uses static IP
        .dhcp = NETINFO_STATIC
#endif
};
```



4.4 Step 4: Setup Device self-signed certificates

Please follow up tutorial-x509-self-sign.

1. For your reference, prepare example log as below:

Notice! device ID = "W5100S_EVB_PICO_PROV_X509"

• At last stage, you need to run the following command for making .pem file.

```
MINGW64 ~/certi
$ openss1 genpkey -out prov_device1.key -algorithm RSA -pkeyopt
rsa_keygen_bits:2048
.....++++++
MINGW64 ~/certi
$ openssl req -new -key prov_device1.key -out prov_device1.csr
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a
DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
Country Name (2 letter code) [AU]:.
State or Province Name (full name) [Some-State]:.
Locality Name (eg, city) []:.
Organization Name (eg, company) [Internet Widgits Pty Ltd]:.
Organizational Unit Name (eg, section) []:.
Common Name (e.g. server FQDN or YOUR name) []:W5100S_EVB_PICO_PROV_X509
Email Address []:
Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:
An optional company name []:
MINGW64 ~/certi
$ openss1 x509 -req -days 365 -in prov_device1.csr -signkey
prov_device1.key -out prov_device1.crt
Signature ok
subject=CN = W5100S_EVB_PICO_PROV_X509
Getting Private key
MINGW64 ~/certi
$ openssl x509 -in prov_device1.crt -out prov_device1.pem -outform PEM
MINGW64 ~/certi
$ ls
prov_device1.crt prov_device1.key prov_device1.csr prov_device1.pem
MINGW64 ~/certi
$
```



- Get the key value from files (prov_device1.crt, prov_device1.key) as below: edit 'WIZnet-PICO-AZURE-C/exmaples/sample_certs.c' with generated certificates as upper.
- For common name, Use "W5100S_EVB_PICO_PROV_X509" used in key generation.
- pico_az_CERTIFICATE and pico_az_PRIVATE_KEY use key value from files (prov_device1.crt, prov_device1.key)
- 'pico_az_id_scope' use "ID Scope" string from Step 5.
- pico_az_COMMON_NAME use "device ID" from <u>Step 4</u>.

```
const char pico_az_id_scope[] = "0ne00xxxx5A";
const char pico_az_COMMON_NAME[] = "W5100S_EVB_PICO_PROV_X509";
const char pico az CERTIFICATE[] =
"----BEGIN CERTIFICATE----""\n"
"MIIDrTCCApUCFG9+k01k2I815L5XAGBX7DXNxGE+MA0GCSqGSIb3D0EBCwUAMIGS""\n"
"MQswCQYDVQQGEwJLUjEUMBIGA1UECAwLR311b25nZ2ktZG8xFDASBgNVBAcMC1N1""\n"
"AwyXH6BP1QhBy1sB4J5psW9ptDNKDPwF5q9cC+UiER8nSoqo0nQkB/MFSqwpZ/t0""\n"
"F7Yi3Fh/3zOiiT3qJGbFq5hU6b+AWLFjEBf4STahhOm4""\n"
"-----END CERTIFICATE-----";
const char pico_az_PRIVATE_KEY[] =
"----BEGIN PRIVATE KEY-----""\n"
"MIIEvQIBADANBgkqhkiG9w0BAQEFAASCBKcwggSjAgEAAoIBAQC/+cTz9dwyx0oQ""\n"
"RZq4eefN3GV6CSAUjAEVabjw080a92rxAVtNhuPuFS0QMsixfW0EwPMrtBqWJx0k""\n"
. . .
"DHuwsI6yH1KXJ8AhQ9N99JHM00oCxVb1whKQghatpe/+4daatxD6YEoGqypxUxGv""\n"
"NCv2+ABkemj5BI2RGP5cHHk=""\n"
"----END PRIVATE KEY----";
```



4.5 Step 5: Setup Azure IoT Explorer

1. Create Azure Device Provisioning service.

[MUST] For Device Provisioning service creation, please follow up the <u>Quickstart: Set up</u> <u>the IoT Hub Device Provisioning Service with the Azure portal</u> document first.

• After creating DPS, get your "ID Scope" value.



Figure 1. get "ID Scope"



- 2. Link to Azure IoT Hub & DPS.
- Connect DPS and IoT Hub service

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6 3	Quick Start														
+	Shared access polici														
<u>م</u>	Linked IoT hubs	_													
Þ	Certificates														
۲	Manage enrollments														
÷	Manage allocation policy														
* *	Networking														
	Properties														
A	Locks														

Figure 2. Linked IoT hubs

- 3. Create a device enrollment.
- Add individual enrollment.





- Use "prov_device1.pem" file generated in previous section. • 도 다 🔮 🐵 📀 🔊 Microsoft Azure P Search resources, services, and docs (G+/) Home > twarelabhubprv > 💫 Add Enrollment × 🔡 Save Mechanist 1 X.509 \sim Primary Certificate .pem or .cer file 🕕 Ы "prov_device1.pem 2 Clear Selection Secondary Certificate .pem or .cer file 🕕 Select a file ß Clear Selection IoT Hub Device ID 🕕 W5100S_EVB_PICO_PROV_X509 IoT Edge device 🕕 True False 4 Select how you want to assign devices to hubs
 Image: Image of the second Evenly weighted distribution \sim Select the IoT hubs this device can be assigned to: (i) twarelabhub.azure-devices.net \sim Link a new IoT hub 4
 - Figure 4.Enter the .pem file
- Check "Individual Enrollments" list.



Figure 5. Individual Enrollments



- For more details,
 - Please refer How to manage device enrollments with Azure portal.
 - Or please read <u>Quickstart: Provision an X.509 certificate simulated device</u> document as well.
- 4. In the IoT Hub, go to the device menu and click "Refresh" until you see a provisioned device name.

Azure IoT Explorer (preview)					Notifications	🔅 Settings
Home > twarelabhub > Devi	ces					
New C Refresh	ightarrow	d query parameter				
Device ID	Status	Connection st	Authenticatio	Last status up	loT Plug and	Edge device
twarelab_esptest01	Enabled	Disconnected	Sas			
device-007	Enabled	Disconnected	Sas			
rp2040_W5100S_1	Enabled	Disconnected	Sas			
W5100S_EVB_PICO	Enabled	Disconnected	Sas			
twarelab_w01	Enabled	Disconnected	Sas			
x509testdevice	Enabled	Disconnected	SelfSigned			
custom-hsm-device-01	Enabled	Disconnected	SelfSigned			
W5100S_EVB_PICO_X509	Enabled	Disconnected	SelfSigned			

Figure 6. Click "Refresh"



• After few seconds, you can find provision device from device list as below:

Azure IoT Explorer (preview)					O Notifications	🔅 Settings
Home > twarelabhub > Devi	ces			_		_
🛨 New 🏷 Refresh 🛅 Delete						
Query by device ID	$\rho \rightarrow (7 \text{ Ad})$	d query parameter				
Device ID	Status	Connection st	Authenticatio	Last status up	loT Plug and	Edge device
twarelab_esptest01	Enabled	Disconnected	Sas			
device-007	Enabled	Disconnected	Sas			
rp2040_W5100S_1	Enabled	Disconnected	Sas			
W5100S_EVB_PICO_1	Enabled	Disconnected	Sas			
twarelab_w01	Enabled	Disconnected	Sas			
x509testdevice	Enabled	Disconnected	SelfSigned			
custom-hsm-device-01	Enabled	Disconnected	SelfSigned			
W5100S_EVB_PICO_X509	Enabled	Disconnected	SelfSigned			
W5100S_EVB_PICO_PROV_X509	Enabled	Disconnected	SelfSigned			

Figure 7. Click the provisioned device

5. Go to "Telemetry" menu, click "Start", and wait for incoming messages.







4.6 Step 6: Build

- 1. After completing the AZURE prov X.509 example configuration, click 'build' in the status bar at the bottom of Visual Studio Code or press the 'F7' button on the keyboard to build.
- 2. When the build is completed, 'main.uf2' is generated in 'WIZnet-PICO-AZURE-C/build/examples/' directory.

4.7 Step 7: Upload and Run

 While pressing the BOOTSEL button of Raspberry Pi Pico, W5100S-EVB-Pico, W5500-EVB-Pico, W55RP20-EVB-Pico, W5100S-EVB-Pico2 or W5500-EVB-Pico2 power on the board, the USB mass storage 'RPI-RP2' is automatically mounted.

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Properties Oper	Rename Ac	cess Map network Add a networ dia • drive • location	k Open Setting	Uninstall or change a program System properties Manage	n				
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Vide	os								
~ Devices and	d drives (4)								
Loca	l Disk (C:)	Data	(D:)	시:	스템 예약 (E:)				
105 0	GB free of 231 GB	8 811 0	B free of 93	1 GB 84.	.9 MB free of 99.9 MB	3			
RPI-I	RP2 (F:)								
127 1	MB free of 127 M	18							~
11 items									800 📰

Figure 9. USB mass storage

2. Drag and drop ' main.uf2' onto the USB mass storage device 'RPI-RP2'.



3. Connect to the serial COM port of Raspberry Pi Pico, W5100S-EVB-Pico, W5500-EVB-Pico, W5500-EVB-Pico2 or W5500-EVB-Pico2 with Tera Term.

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File	Edit	Setup	Control	Window	Help									
						Tera Term: Serial por	t setup and c	connectio	n		×			^
						Port:	COM9	~	New open	1				
						Speed:	115200	~						
						Data:	8 bit	\sim	Cancel					
						Parity:	none	\sim						
						Stop bits:	1 bit	\sim	Help					
						Flow control:	none	\sim						
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						<				>				
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Figure 10. Tera Term

4. Reset your board.



If the Azure prov X.509 example works normally on Raspberry Pi Pico, W5100S-EVB-Pico, W5500-EVB-Pico, W55RP20-EVB-Pico, W5100S-EVB-Pico2 or W5500-EVB-Pico2, you can see the network information of Raspberry Pi Pico, W5100S-EVB-Pico, W5500-EVB-Pico, W55RP20-EVB-Pico, W5100S-EVB-Pico2 or W5500-EVB-Pico2, Connect to Azure DPS (Device Provisioning Server) and perform the provisioning work.

<pre>Elle Edit Setup Cgntrol Window Heip D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/lbrary/ssl_cli.c:2024: dumping 'server hello, version' (2 bytes) D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/lbrary/ssl_cli.c:2024: dumping 'server hello, version' (2 bytes) D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/lbrary/ssl_cli.c:2024: dumping 'server hello, rurent time: 1634283980 D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/lbrary/ssl_cli.c:2057: d0006: 60 03 0 D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/lbrary/ssl_cli.c:2057: d0006: 61 69 39 0c 7d 3b 2a b9 6f ad 159 05 fa 66 4d at9.};*.o.Y'M D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/lbrary/ssl_cli.c:2057: 0000: 61 69 30 0c 7d 3b 2a b9 6f ad 150 0f 30 0f 0f 37 D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/lbrary/ssl_cli.c:2057: 0000: 61 60 00 4f 03 0f 08 35 05 36 66 4b 17 0 16 0f 06 0f 0 D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/lbrary/ssl_cli.c:2100: 0000: 02 77 5f b1 5a f3 e2 35 25 46 56 09 3e d2 f2 23 .wZ5NFV.># D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/lbrary/ssl_cli.c:2100: 0000: 02 77 5f b1 5a f3 e2 35 25 46 56 09 3e d2 f2 23 .wZ5NFV.># D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/lbrary/ssl_cli.c:2100: 0000: 02 77 5f b1 5a f3 e2 35 25 46 56 09 3e d2 f2 23 .wZ5NFV.># D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/lbrary/ssl_cli.c:2100: 0000: 02 77 5f b1 5a f3 e2 35 25 46 56 09 3e d2 f2 23 .wZ5NFV.># D:/twarelab/picco-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/lbrary/ssl_cli.c:2212: server hello, chosen ciphersuite: IDS-RSA-WITH-AES-128-COM-SH4256 D:/twarelab/picco-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/lbrary/ssl_cli.c:2212: server hello, chosen ciphersuite: IDS-RSA-WITH-AES-128-COM-SH4256 D:/twarelab/picco-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/lbrary/ssl_cli.c:2212: server hello, chosen ciphersuite: IDS-</pre>
<pre>>/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_nsg.c:3774: <= read record D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2024: 0000: 03 03 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2024: 0000: 03 03 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2047: server hello, current time: 164285980 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2057: dumping 'server hello, random bytes' (32 bytes) D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2057: 0000: f1 22 af 38 63 ac 66 f8 42 f2 7f d0 18 0f 90 as*.&c-n.B D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2057: 0010: f1 22 af 38 63 ac 66 f8 42 f2 7f d0 18 0f 90 as*.&c-n.B D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2130: 0000: f1 22 af 38 63 ac 66 f8 42 f2 7f d0 18 0f 90 as*.&c-n.B D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2130: 0000: f1 22 af 38 63 ac 66 f8 42 f2 7f d0 18 0f 90 as*.&c-n.B D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2130: 00010: f2 77 5f b1 5a f3 e2 35 25 46 56 99 3e d2 f2 23 .w_Z.J.SWFV.># D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2130: 0010: c2 77 5f b1 5a f3 e2 35 25 46 56 99 3e d2 f2 23 .w_Z.J.SWFV.># D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2172: server hello, cosen ciphersuite: 105-RSA-WITH-AES-128-COM-SH4256 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2213: server hello, cosen ciphersuite: 105-RSA-WITH-AES-128-COM-SH4256 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2237: server hello, cotal extension length: 5 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2237: server hello, total extension D:/twarelab</pre>
<pre>2/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2024: dumping 'server hello, version' (2 bytes) D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2047: server hello, current time: 1634285900 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2047: server hello, random bytes' (32 bytes) D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2057: dumping 'server hello, random bytes' (32 bytes) D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2057: 00000: 61 69 39 9c 7d 3b 2a 99 6f a0 a1 59 99 a5 - ".8c-n.B D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2057: 00000: f1 22 af 38 63 3c 6e f8 42 f2 7f d0 18 0f 99 a5 - ".8c-n.B D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2130: dumping 'server hello, session id' (32 bytes) D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2130: dumping 'server hello, session id' (32 bytes) D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2130: dumping 'server hello, session id' (32 bytes) D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2130: 00000: d9 4d 00 00 4f 03 67 80 3e 5f c0 64 b1 7a b1 fc _M.0.g.>z. D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2130: 00000: d7 7f b1 5a f3 e2 35 25 46 56 99 3e d2 f2 23 _w_Z.3WV.># D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2172: server hello, cosen ctphersuite: 0000 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:22172: server hello, cosen ctphersuite: TLS-RSA-WITH-AES-128-CCM-SH4256 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:22172: server hello, cosen ctphersuite: TLS-RSA-WITH-AES-128-CCM-SH4256 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:22172: se</pre>
<pre>p:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2024: 0000: 03 03 c)twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2057: dumping 'server hello, random bytes' (32 bytes) c)twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2057: dumping 'server hello, random bytes' (32 bytes) c)twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2057: 0000: 61 69 39 9c 7d 3b 2a b9 6f a0 a1 59 95 fa 60 4d a19.};*.o.Y.'M D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2057: 0010: f1 22 df 38 63 2c 6f 84 2f 27 fd 01 80 f9 0a 5 .".8c-n.B D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2129: server hello, session id len.: 32 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2130: 0000: d3 40 00 04 f0 06 70 03 69 26 f0 de b1 7a b1 fc .M.O.g.>Z. D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2130: 0000: d2 77 5f b1 5a f3 e2 35 25 46 56 99 3e d2 f2 23 .w_Z.5%FV.># D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2172: server hello, chosen ciphersuite: 15-RSA-WITH-AES-128-COM-SH4256 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2172: server hello, chosen ciphersuite: 15-RSA-WITH-AES-128-COM-SH4256 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2212: server hello, chosen ciphersuite: TS-RSA-WITH-AES-128-COM-SH4256 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2212: server hello, chosen ciphersuite: TS-RSA-WITH-AES-128-COM-SH4256 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2212: server hello, chosen ciphersuite: TS-RSA-WITH-AES-128-COM-SH4256 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2212: server hello, chosen ciphersuite: TS-RSA-WITH-AES-128-COM-SH4256 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/</pre>
<pre>2/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2047: server hello, current time: 1634285980 D;/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2057: 0000: 61 69 39 C7 d3 b 28 b) 6f a0 at 59 95 fa 60 4d at9.};*.oY.,'M D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2057: 0000: 61 69 39 C7 d3 b 28 b) 6f a0 at 59 95 fa 60 4d at9.};*.oY.,'M D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2129: server hello, session td' (32 bytes) D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2130: dumping 'server hello, session td' (32 bytes) D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2130: 0000: d9 4d 00 00 4f 03 67 80 3e 5f c0 04 b1 7a b1 fc .M.o.g.>Z. D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2130: 0000: d9 4d 00 00 4f 03 67 80 3e 5f c0 04 b1 7a b1 fc .M.o.g.>Z. D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2130: 0000: d9 4d 00 00 4f 03 67 80 3e 5f c0 04 b1 7a b1 fc .M.o.g.>Z. D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2173: server hello, chosen ciphersuite: 000c D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2173: server hello, chosen ciphersuite: 000c D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2212: server hello, chosen ciphersuite: TLS-RSA-WITH-AES-128-CCM-SH4256 D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2213: server hello, chosen ciphersuite: TLS-RSA-WITH-AES-128-CCM-SH4256 D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2239: forund renegotiation extension D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2239: forund renegotiation extension D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2449: <= parse server hello D:/twar</pre>
<pre>c:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/nbedtls-3.0.0/ltbrary/ssl_cli.c:2057: dumping 'server hello, randon bytes' (32 bytes) c:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/nbedtls-3.0.0/ltbrary/ssl_cli.c:2057: 0000: 61 69 39 9c 7d 3b 2a b9 6f a0 a1 59 95 fa 60 4d ai9.};*.o.Y'M O:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/nbedtls-3.0.0/ltbrary/ssl_cli.c:2057: 0010: f1 22 af 38 63 3c 6f 8d 22 7f d0 18 0f 90 a5 .".8c-n.8 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/nbedtls-3.0.0/ltbrary/ssl_cli.c:2129: server hello, session td len.: 32 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/nbedtls-3.0.0/ltbrary/ssl_cli.c:2130: d0000: d4 40 00 04 f0 3 6f 80 2e 5f c0 64 b1 7a b1 fc .M.O.g.>Z. D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/nbedtls-3.0.0/ltbrary/ssl_cli.c:2130: 00000: d2 77 5f b1 5a f3 e2 35 25 46 56 99 3e d2 f2 23 .w_Z.5%FV.># D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/nbedtls-3.0.0/ltbrary/ssl_cli.c:2172: server hello, cosen to thersound D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/nbedtls-3.0.0/ltbrary/ssl_cli.c:2172: server hello, cosen ctphersuite: 009c D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/nbedtls-3.0.0/ltbrary/ssl_cli.c:2172: server hello, cosen ctphersuite: 009c D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/nbedtls-3.0.0/ltbrary/ssl_cli.c:2172: server hello, cosen ctphersuite: TLS-RSA-kITH-AES-128-COM-SH4256 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/nbedtls-3.0.0/ltbrary/ssl_cli.c:2273: server hello, cosen ctphersuite: TLS-RSA-kITH-AES-128-COM-SH4256 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/nbedtls-3.0.0/ltbrary/ssl_cli.c:2273: server hello, total extension length: 5 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/nbedtls-3.0.0/ltbrary/ssl_cli.c:2259: found renepotation extension D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/nbedtls-3.0.0/ltbrary/ssl_cli.c:2259: found renepotation extension D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/nbedtls-3.0.0/ltbrary/ssl_cli.c:2259: found renepotation extension D:/twarelab/ptco-examples/ptco-azure-tot-sd</pre>
<pre>D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2057: 0000: 61 69 39 9c 7d 3b 2a b9 6f a0 a1 59 95 fa 60 4d at9_};*.o.Y. 'M D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2257: 0010: f1 22 af 38 63 z6 6e f8 42 f2 7f d0 18 0f 90 a5 .*.8c-n.B D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2129: server hello, session id len: 32 D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2130: 0000: d9 4d 00 04 f0 36 78 03 25 f6 64 b1 7a b1 fc .M.o.g.>Z D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2130: 0000: d9 4d 00 04 f0 36 78 03 25 f6 66 4b 17a b1 fc .M.o.g.>Z D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2130: 0000: d9 4d 00 04 f0 36 78 03 25 f6 66 4b 17a b1 fc .M.o.g.>Z D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2130: 0010: c2 77 5f b1 5a f3 c2 35 25 46 56 99 3e d2 f2 23 .w.Z.1.5WFV.># D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2173: server hello, cosen ciphersuite: 089c D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2123: server hello, cosen ciphersuite: TLS-RSA-WITH-AES-128-COM-SH4256 D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2237: server hello, cosen ciphersuite: TLS-RSA-WITH-AES-128-COM-SH4256 D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2237: server hello, total extension length: 5 D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2237: server hello, total extension D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2237: server hello, total extension D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2237: server hello, total extension D:/twarelab/pico-examples/pico-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2237: server hello, total exte</pre>
<pre>c:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2057: 0010: f1 22 af 38 63 3c 6e f8 42 f2 7f d0 18 0f 90 a5 .".8c-n.B c:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:219: server hello, session id len.: 32 c:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:219: dumpng 'server hello, session id' (32 bytes) D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2130: dumpng 'server hello, session id' (32 bytes) D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2130: 0000: d9 4d 00 00 4f 03 67 80 3e 5f c0 04 bf 7a bf c .M.0.g.>z D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2130: 0000: d9 4d 00 00 4f 03 67 80 3e 5f c0 04 bf 7a bf c .M.0.g.>z D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2172: server hello, chosen ctphersuite: 000c D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2172: server hello, chosen ctphersuite: 000c D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2212: server hello, chosen ctphersuite: TLS-RSA-WITH-AES-128-CCM-SH4256 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2212: server hello, chosen ctphersuite: TLS-RSA-WITH-AES-128-CCM-SH4256 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2212: server hello, total extension length: 5 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2215: client state: 3 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_cli.c:2449: <= parse server hello D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_rsg.c:1975: == flush output D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_rsg.c:1975: == flush output D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/ltbrary/ssl_rsg.c:3700: => read record D:/twarelab/ptco-e</pre>
<pre>D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2129: server hello, session id len:: 32 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2130: 0000: d3 40 60 04 f0 36 780 3e 5f c0 04 b1 7a b1 fc .M.O.g.>2 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2130: 0000: d3 40 60 04 f0 36 780 3e 5f c0 04 b1 7a b1 fc .M.O.g.>2 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2130: 0000: d3 77 5f b1 5a f3 e2 35 25 46 56 99 3e d2 f2 23 .w_Z.T.5%FV.># D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2172: server hello, chosen ciphersuite: 009c D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2172: server hello, chosen ciphersuite: 15-R5A-kITH-AES-128-COM-SH4256 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2217: server hello, chosen ciphersuite: TLS-R5A-kITH-AES-128-COM-SH4256 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2217: server hello, total extension length: 5 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2217: server hello, total extension length: 5 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2219: found remegotiation extension D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2219: found remegotiation extension D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2219: clust state: 3 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2219: clust state: 3 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_ssl_cli.c:2219: clust state: 3 D:/twarelab/ptco-examples/ptco-azure-tot-sdk-c/mbedtls-3.0.0/library/ssl_ssl_ssl_ssl_ssl_ssl_ssl_ssl_ssl_ssl</pre>
<pre>D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2138: dumping 'server hello, session id' (32 bytes) D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2138: 6000: d0 4 60 60 4 f0 3 67 80 3e 5f c0 64 bi 7a bi fc .M.0.0.g.>Z D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2138: 6010: c2 77 5f bi 5a f3 c2 35 25 46 56 99 3e d2 f2 23 .w_Z5%FV.># D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2173: server hello, chosen ciphersuite: 609c D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2173: server hello, chosen ciphersuite: 609c D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2212: server hello, chosen ciphersuite: 609c D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2221: server hello, chosen ciphersuite: 15.RSA-WITH-AES-128-COM-SH4256 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2227: server hello, chosen ciphersuite: 15.RSA-WITH-AES-128-COM-SH4256 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:227: server hello, chosen ciphersuite: 0.5.RSA-WITH-AES-128-COM-SH4256 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2237: server hello, chosen ciphersuite: 0.5.RSA-WITH-AES-128-COM-SH4256 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2239: fond renegotiation extension length: 5 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2239: fond renegotiation extension D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_msg.c:1977: = flush output D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_msg.c:3770: => flush output D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_msg.c:3770: => read record D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_msg.c:3774: =</pre>
D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2130: 00000: d9 4d 00 00 4f 03 67 80 3e 5f c0 64 bi 7a bi fc .M.0.g.>z D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2130: 00100: c2 77 5f bi 5a f3 e2 35 25 46 56 99 3e d2 f2 23 .w_Z5WFV.>.# D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2160: no seesion has been resumed D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2173: server hello, chosen ciphersuite: 009c D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2173: server hello, chosen ciphersuite: TLS-RSA-WITH-AES-128-CCM-SH4256 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2212: server hello, chosen ciphersuite: TLS-RSA-WITH-AES-128-CCM-SH4256 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2213: server hello, chosen ciphersuite: TLS-RSA-WITH-AES-128-CCM-SH4256 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2239: forum freeqotiation extension D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2239: forum freeqotiation extension D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2449: <= parse server hello D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2419: <= parse server hello D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_rsg.c:1977: <= flush output D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_rsg.c:2977: <= flush output D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_rsg.c:3700: => read record D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_rsg.c:3700: => read record D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_rsg.c:3724: == read record
D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2169: no session has been resumed D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2172: server hello, chosen ciphersuite: 009c D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2172: server hello, chosen ciphersuite: 009c D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2172: server hello, chosen ciphersuite: 009c D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2172: server hello, chosen ciphersuite: TLS-RSA-WITH-AES-128-COM-SH4256 D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2212: server hello, chosen ciphersuite: TLS-RSA-WITH-AES-128-COM-SH4256 D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2223: server hello, chosen ciphersuite: TLS-RSA-WITH-AES-128-COM-SH4256 D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2259: found renegotiation extension length: 5 D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2259: found renegotiation extension D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2259: found renegotiation extension D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2259: found renegotiation extension D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2259: found renegotiation extension D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2259: found renegotiation D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_msg.c:1975: => Flush output D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_msg.c:3769: => pread record D:/twarelab/picco-examples/picco-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_msg.c:3774: == read record
D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2172: server hello, chosen ciphersuite: 009C D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2173: server hello, chosen ciphersuite: 009C D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2173: server hello, chosen ciphersuite: 009C D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2173: server hello, chosen ciphersuite: 009C D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2217: server hello, chosen ciphersuite: TLS-RSA-WITH-AES-128-COM-SH4256 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2237: server hello, total extension length: 5 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2237: server hello D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2237: server hello D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2239: found renegotiation extension D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2429: clinet state: 3 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_nsg.c:1975: => flush output D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_nsg.c:1977: =< flush output D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_nsg.c:37700: => read record D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_nsg.c:37700: => read record
D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2173: server hello, chosen ciphersuite: 009c D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2173: server hello, chosen ciphersuite: TLS-RSA-kITH-AES-128-COM-SH4256 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2212: server hello, total extension length: 5 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2213: server hello, total extension length: 5 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2239: found renepotation extension D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2239: found renepotation extension D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2249: <= parse server hello D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2249: <= parse server hello D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2249: <= parse server hello D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2249: <= parse server hello D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2249: <= parse server hello D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_ts.c:2285: Substants 3 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_ts.c:2285: => parse certificate D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_ts.c:2385: => parse certificate D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_ts.c:2385: handshke message: msglen = 3440, type = 11, hslen = 3406 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_tsg.c:3774: == read record
D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2173: server hello, compress alg.: 0 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2217: server hello, chosen ciphersuite: TLS-RSA-WITH-AES-128-CCM-SH4256 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2217: server hello, total extension D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2217: server hello, total extension D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2219: found renegotiation extension D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2415: clitent state: 3 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_cli.c:2415: clitent state: 3 D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_msg.c:1965: => flush output D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_msg.c:1977: =< flush output D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_msg.c:3700: => read record D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_msg.c:3700: => read record D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_msg.c:3724: =< read record D:/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3.0.0/library/ssl_msg.c:3724: =< read record
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Figure 11. Connect to Azure DPS



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D/twarelab/pico-examples/pico-azure-iot-sdk-c/mbedtls-3 0 0/library/ssl msg c:2628: output record: msgtype = 21 version = [3:3] msglen = 26		~

Figure 12. Provision work is done

6. After the provisioning work is complete, 2 messages are sent to Azure IoT Hub.



Figure 13. Send 2 messages to Azure IoT hub





Figure 14. Receiving events in Azure IoT Explorer



Revision history

Version	Date	Descriptions
Ver. 1.0.0	Dec, 2024	Initial release.

Table 1. Revision history

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