# 02.03. TSM (SCP)

- 연결 정보개발 설정시연 사건 작업TSM 서비스 정보참고

### 연결 정보

항목		내용	
TSM Proxy			
	dev	http://10.20.30.41:2011/TSM_PROXY	
	Swagger	http://10.20.30.41:2011/TSM_PROXY/swagger-ui.html	
		발급: /device/issueappletwithpersodata	
AWS MQTT endpoint		a34vuzhubahjfj-ats.iot.ap-northeast-2.amazonaws.com / port: 8883	
MQTT		임시	
	키 & 인증서 (+csr)	test.zip	
	AWS 정책	policy-ee2e9203f0a0971c599888fb8b67e3a1882626cd-1747200329	
	topic	client/test/ee2e9203f0a0971c599888fb8b67e3a1882626cd/la/123456	
	client id	ee2e9203f0a0971c599888fb8b67e3a1882626cd-*	

### 개발 설정

TSM용 AWS Gateway API 생 성

AWS IoT lambda를 그대로 사용하기 위해서, 모나 토콘이 필요한 gateway를 대신할 용도

• Authorizer 생성: username, <del>iot\_id 반환</del>

TSM에서는 AWS SDK 직접 호출

■ AWS IAM에 TSM UI에서 사용 할 user 생성

인증서 정보 조회를 위한 유저 설정: tsm

▼ SE와 인증서 정보를 매칭할 DB 테이블 추가

#### TSE\_SE\_CERT

```
CREATE TABLE `TSE_SE_CERT` (
  `ID` bigint NOT NULL AUTO_INCREMENT,
  `SEID` varchar(256) NOT NULL,
  `AID` varchar(32) DEFAULT NULL,
  `AWS_CERT_ID` varchar(70) DEFAULT NULL,
  `START TMPST` datetime(6) DEFAULT NULL
COMMENT 'certificate valid date',
  `END_TMPST` datetime(6) DEFAULT NULL COMMENT
'certificate valid date',
  `REG_TMPST` datetime(6) NOT NULL,
  `UPD_TMPST` datetime(6) NOT NULL,
  PRIMARY KEY ('ID'),
 UNIQUE KEY `TSE_SE_CERT_UNIQUE` (`SEID`,
`AWS_CERT_ID`, `AID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci;
```

☑ 임시 인증서, 정책 설정

#### 인증서, 정책 생성 및 mqtt 연결 확인

```
# private key, csr
openssl req -new -newkey rsa:2048 -nodes -
keyout test.key -out test.csr
# private key public key
openssl rsa -in test.key -pubout -out test.pub
# aws
       with csr
aws iot create-certificate-from-csr --
certificate-signing-request=file://test.csr --
set-as-active --certificate-pem-outfile test.
pem --region ap-northeast-2
# arn:aws:iot:ap-northeast-2:867344438718:cert
/d86d738a651ed6f563e9ec3063b6b8b8fb4039c945433d
f1d13da3e90f681bac
    : policy-{username-hash}-
aws iot create-policy --policy-name policy-
ee2e9203f0a0971c599888fb8b67e3a1882626cd-$(date
+%s) --policy-document=file://policy.json
# policy-
ee2e9203f0a0971c599888fb8b67e3a1882626cd-
1747200329
aws iot attach-policy --policy-name policy-
ee2e9203f0a0971c599888fb8b67e3a1882626cd-
1747200329 -- target arn:aws:iot:ap-northeast-2:
867344438718:cert
```

```
/d86d738a651ed6f563e9ec3063b6b8b8fb4039c945433d
fld13da3e90f681bac
# ee2e9203f0a0971c599888fb8b67e3a1882626cd :
KONAI com id = 2A831A8CE068
# ee2e9203f0a0971c599888fb8b67e3a1882626cd/la
/123456
# MQTT subscribe
mosquitto_sub -h a34vuzhubahjfj-ats.iot.ap-
northeast-2.amazonaws.com -p 8883 \
--cafile ./root-CA.crt --key ./test.key --cert
./test.pem \
-t "client/test
/ee2e9203f0a0971c599888fb8b67e3a1882626cd/la
/123456" \
-d \
-i ee2e9203f0a0971c599888fb8b67e3a1882626cd-
test
# MQTT publish
mosquitto_pub -h a34vuzhubahjfj-ats.iot.ap-
northeast-2.amazonaws.com -p 8883 \
--cafile ./root-CA.crt --key ./test.key --cert
./test.pem \
-t "client/test
/ee2e9203f0a0971c599888fb8b67e3a1882626cd/la
/123456" \
-i ee2e9203f0a0971c599888fb8b67e3a1882626cd-
pub \
-d \
-m '{"msg": "hello world"}'
```

### 시연 사전 작업

순서	내용	비고
1	TSM 준비	05. TSM USIM 발급 참고

### TSM 서비스 정보

Key	Value	
AID		
Service ID		
Service Version	1.0.0	

## 참고

05. TSM USIM 발급