

TinyloT Zeroconf

김동현

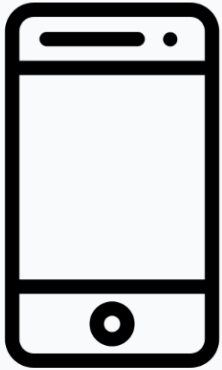


VMware (fc:Zeroconf)

Request(Get, Zeroconf)

Fc: Zeroconf Get 요청. (Retrieve)

DeviceList Response



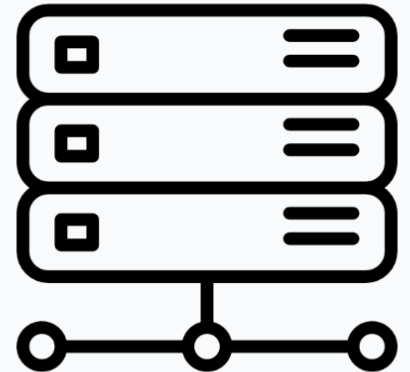
```
root@quri-virtual-machine:/home/quri/TinyIoT_App_File# ./TinyIoT_App
DeviceList
Type:      _TinyIoT_App._tcp
Device Name: TinyIoT Application
Network:   local

Type:      _ssh._tcp
Device Name: quri-virtual-machine
Network:   local

Type:      _ssh._tcp
Device Name: quri-virtual-machine
Network:   local

Type:      _sftp-ssh._tcp
Device Name: quri-virtual-machine
Network:   local

Type:      _sftp-ssh._tcp
Device Name: quri-virtual-machine
Network:   local
```



Postman (fc:Zeroconf)

GET ▼ http://192.168.234.129:3000/TinyIoT Send ▼

Params Auth Headers (8) Body Pre-req. Tests Settings Cookies

Headers 7 hidden

	KEY	VALUE	DESCRIP	...	Bulk Edit	Presets
<input checked="" type="checkbox"/>	X-fc	Zeroconf				
	Key	Value	Description			

Body Cookies Headers (5) Test Results 200 OK 1044 ms 714 B Save Response ▼

Pretty Raw Preview Visualize Text ▼ 📄 🔍

```
1
2 DeviceList
3
4
5 Type:      _TinyIoT_App._tcp
6 Device Name: TinyIoT Application
7 Network:   local
8
9
10 Type:      _ssh._tcp
11 Device Name: quri-virtual-machine
12 Network:   local
13
14
15 Type:      _ssh._tcp
16 Device Name: quri-virtual-machine
17 Network:   local
18
19
20 Type:      _sftp-ssh._tcp
21 Device Name: quri-virtual-machine
22 Network:   local
```

DeviceList 전송 모습

GET ▼ http://192.168.234.129:3000/TinyIoT Send ▼

Params Auth Headers (8) Body Pre-req. Tests Settings Cookies

Headers 7 hidden

	KEY	VALUE	DESCRIP	...	Bulk Edit	Presets
<input checked="" type="checkbox"/>	X-fc	Zeroconf				
	Key	Value	Description			

Body Cookies Headers (5) Test Results 200 OK 1057 ms 711 B Save Response ▼

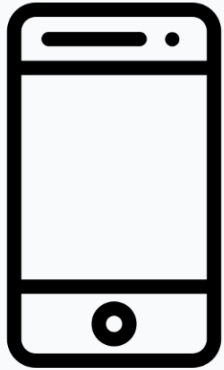
	KEY	VALUE
	Access-Control-Allow-Origin	*
	Access-Control-Allow-Headers	Accept, Accept-Language, Content-Language, Content-Type
	Access-Control-Allow-Methods	GET, PUT, POST, DELETE, OPTIONS
	Access-Control-Request-Methods	GET, PUT, POST, DELETE, OPTIONS
	TinyIoT-ID	SejongTinyIoT

Session_ID가 응답 헤더에 담긴 모습

VMware (fc:Create)

```
Please input Service Type, Device Name, Option Name
_TinyIoT_App._tcp Device Tem
```

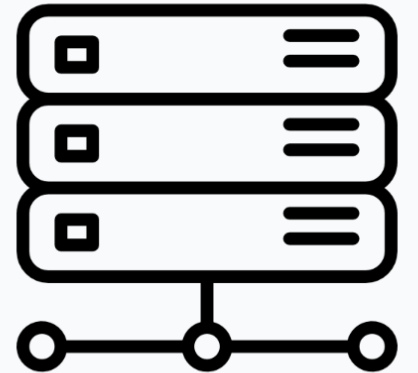
Fc: Create / Post 요청 (Create)
Header: SejongTinyIoT
Body: _TinyIoT_App._tcp Device Tem



등록 완료 Response

```
Please input Service Type, Device Name, Option Name
_TinyIoT_App._tcp Device Tem

Response: {"m2m:dbg": "Regist Success"}
```



Postman (fc:Create)

POST ▼ http://192.168.234.129:3000/TinyIoT Send ▼

Params ● Auth Headers (15) Body ● Pre-req. Tests Settings Cookies

Headers 👁 9 hidden

	KEY	VALUE	DESCRIP	...	Bulk Edit	Presets
<input checked="" type="checkbox"/>	X-fc	Create				
<input checked="" type="checkbox"/>	Accept	application/json				
<input checked="" type="checkbox"/>	X-M2M-Origin	TAEC				
<input checked="" type="checkbox"/>	X-M2M-RI	12345				
<input checked="" type="checkbox"/>	X-TinyIoT_ID	SejongTinyIoT				
<input checked="" type="checkbox"/>	Content-Type	application/json; ty=5				
	Key	Value	Description			

Body Cookies Headers (4) Test Results 🌐 200 OK 17 ms 295 B Save Response ▼

Pretty Raw Preview Visualize Text ▼ 🔍

```
1 {"m2m:dbg": "Regist Success"}
```

등록 성공 및 Session_ID 인증 성공

POST ▼ http://192.168.234.129:3000/TinyIoT Send ▼

Params ● Auth Headers (15) Body ● Pre-req. Tests Settings Cookies

Headers 👁 9 hidden

	KEY	VALUE	DESCRIP	...	Bulk Edit	Presets
<input checked="" type="checkbox"/>	X-fc	Create				
<input checked="" type="checkbox"/>	Accept	application/json				
<input checked="" type="checkbox"/>	X-M2M-Origin	TAEC				
<input checked="" type="checkbox"/>	X-M2M-RI	12345				
<input checked="" type="checkbox"/>	X-TinyIoT_ID	hacker				
<input checked="" type="checkbox"/>	Content-Type	application/json; ty=5				
	Key	Value	Description			

Body Cookies Headers (2) Test Results 🌐 400 Bad Request 4 ms 131 B Save Response ▼

Pretty Raw Preview Visualize JSON ▼ 🔍

```
1 {"m2m:dbg": "Not TinyIoT App"}
```

Session_ID 인증 실패

다음 주 과제

1. TinyIoT Server에서 AE, CNT 등록 과정 테스트.
→ 헤더 파일에 AE, CNT 구조체 생성 함수만 존재, 테스트는 수행하지 않음.
2. TinyIoT Server가 App에서 보낸 Request Body(_TinyIoT_App._tcp Device Tem)를 사용하여 Device로 Request를 보내는 과정 테스트.
3. Request를 받은 Device가 Broadcast를 중지하는지 테스트.