1. **REGISTRATION**

**REQUEST**

curl --location --request **POST** '[**https://sepa.vaimee.it:9443/auth/realms/MONAS/clients-registrations/default?grant\_type=client\_credentials**](https://sepa.vaimee.it:9443/auth/realms/MONAS/clients-registrations/default?grant_type=client_credentials)' \

*--header* 'Content-Type: application/json' \

*--header* 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICI4Y2E2ZGNiNC1jZmY5LTQzNGUtODNhNi05NTk4MzQ1NjUxZGMifQ.eyJleHAiOjAsImlhdCI6MTYzMjI5OTE1OCwianRpIjoiZTY4YjYxNzItNWZhOS00ZjcxLWExODYtZDZlZThlZDA0NjIyIiwiaXNzIjoiaHR0cHM6Ly9zZXBhLnZhaW1lZS5pdDo5NDQzL2F1dGgvcmVhbG1zL01PTkFTIiwiYXVkIjoiaHR0cHM6Ly9zZXBhLnZhaW1lZS5pdDo5NDQzL2F1dGgvcmVhbG1zL01PTkFTIiwidHlwIjoiSW5pdGlhbEFjY2Vzc1Rva2VuIn0.Io6vYUMW30pFv-j5FO0Tz0lqID4bn3o22LM9BxDAPrw' \

*--data-raw* '{

"clientId": "arduino-enrico",

"standardFlowEnabled": false,

"implicitFlowEnabled": false,

"authorizationServicesEnabled": true,

"directAccessGrantsEnabled": false,

"serviceAccountsEnabled": true,

"publicClient": false,

"protocol": "openid-connect",

"protocolMappers": [

{

"name": "hardcoded\_username",

"protocol": "openid-connect",

"protocolMapper": "oidc-hardcoded-claim-mapper",

"config": {

"claim.value": "sepatest",

"userinfo.token.claim": "false",

"id.token.claim": "false",

"access.token.claim": "true",

"claim.name": "preferred\_username",

"jsonType.label": "String"

}

}

]

}'

ID DEL CLIENT (potrebbe essere un numero seriale/MAC/codiceHW che identifica univocamente il device)

**TOKEN PER LA REGISTRAZIONE** (questo viene fornito al momento dell’installazione è può essere usato da un determinato numero di utenti e poi perde di validità)

UTENTE ASSOCIATO (l’utente a cui è associato il dispositivo. L’utente ha I privilegi di lettura e scrittura sul grafo **http://sepatest)**

**RESPONSE**

{"id":"911b1c90-4a88-47bd-a9a5-a95ed2c5c958",

"clientId":"arduino-enrico"

,"surrogateAuthRequired":false,"enabled":true,"alwaysDisplayInConsole":false,"clientAuthenticatorType":"client-secret",

"secret":"508a374a-5a51-4769-9331-20ac244c1d8f"

,"registrationAccessToken":"eyJhbGciOiJIUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICI4Y2E2ZGNiNC1jZmY5LTQzNGUtODNhNi05NTk4MzQ1NjUxZGMifQ.eyJleH

1. **RICHIESTA DI UN TOKEN**

**REQUEST**

curl --location --request POST '<https://sepa.vaimee.it:9443/auth/realms/MONAS/protocol/openid-connect/token>' \

--header 'Content-Type: application/x-www-form-urlencoded' \

--header 'Authorization: Basic YXJkdWluby1lbnJpY286NTA4YTM3NGEtNWE1MS00NzY5LTkzMzEtMjBhYzI0NGMxZDhm' \

--data-urlencode 'grant\_type=client\_credentials'

YXJkdWluby1lbnJpY286NTA4YTM3NGEtNWE1MS00NzY5LTkzMzEtMjBhYzI0NGMxZDhm' = **BASE64** (arduino-enrico:508a374a-5a51-4769-9331-20ac244c1d8f)

**RESPONSE**

{

"access\_token": "eyJhbGciOiJSUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICJyMFNhMHFDdzZYVDNSZlpOaC13NHlEYU5Pb3F5X3g4SjFjRWpjMlpidi1zIn0..M0vzJKt0eq1J4x\_Kyp4Bmg2583XxwhF-QxkkRSTv7wVx-Fji\_2rGB-gOJtwQkdWN9pNigVyTtjwa5qqVwzGK94jUM5h-oxi-4sxhZrm3yvmsO7ru35-8PdIqsKf3EeLaYY1\_lbd6T9D6G9xqpC12mmxxemXFQUNsQZcaplnEYuOjjlWPUwLvADY3w-FulYuZADIhxwq1iY6RIOld\_t\_aSMd27dxcJCfCKj7u5FYu3KpFFTeWI1r2uBJyMsIdECZ5QHLVVsbwWXmKKi\_M6-\_UAeuxWIzNAMzI5BZaxf3ADZ2qf6dQOk4Jz7tlN8lGgyrGQ7AevsQbOT9l9XRKKNvsrQ",

"expires\_in": 120,

"refresh\_expires\_in": 1800,

"refresh\_token": "eyJhbGciOiJIUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICI4Y2E2ZGNiNC1jZmY5LTQzNGUtODNhNi05NTk4MzQ1NjUxZGMifQ.eyJleHAiOjE2MzIzMjQwMjQsImlhdCI6MTYzMjMyMjIyNCwianRpIjoiNjRhNTE5NDAtOTU0My00Mzk5LWI3MjQtMzg4YTUwZDAzODAyIiwiaXNzIjoiaHR0cHM6Ly9kZWZhdWx0LWhvc3Q6OTQ0My9hdXRoL3JlYWxtcy9NT05BUyIsImF1ZCI6Imh0dHBzOi8vZGVmYXVsdC1ob3N0Ojk0NDMvYXV0aC9yZWFsbXMvTU9OQVMiLCJzdWIiOiJjNjgwNjVlZC1hMzU5LTQxYmEtYWI1NC1mMDhjZmE0OWRiNTAiLCJ0eXAiOiJSZWZyZXNoIiwiYXpwIjoiYXJkdWluby1lbnJpY28iLCJzZXNzaW9uX3N0YXRlIjoiNjkzNWRhYWUtYzY1MS00MWMyLThhOWMtMTE5YTg4MDM2YzIyIiwic2NvcGUiOiJwcm9maWxlIGVtYWlsIn0.xbUrRV2iIdgI2lZCkkCVu1vOFxrNnG0hpgiVHkgnFeQ",

"token\_type": "bearer",

"not-before-policy": 0,

"session\_state": "6935daae-c651-41c2-8a9c-119a88036c22",

"scope": "profile email"

}

1. **RICHIESTA ECHO (viene inviata in risposta la richiesta ricevuta)**

**REQUEST**

curl --location --request POST '<https://sepa.vaimee.it:9001/echo>' \

--header 'Accept: application/json' \

--header 'Content-Type: application/sparql-query' \

--header 'Authorization: Bearer eyJhbGciOiJSUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICJyMFNhMHFDdzZYVDNSZlpOaC13NHlEYU5Pb3F5X3g4SjFjRWpjMlpidi1zIn0..M0vzJKt0eq1J4x\_Kyp4Bmg2583XxwhF-QxkkRSTv7wVx-Fji\_2rGB-gOJtwQkdWN9pNigVyTtjwa5qqVwzGK94jUM5h-oxi-4sxhZrm3yvmsO7ru35-8PdIqsKf3EeLaYY1\_lbd6T9D6G9xqpC12mmxxemXFQUNsQZcaplnEYuOjjlWPUwLvADY3w-FulYuZADIhxwq1iY6RIOld\_t\_aSMd27dxcJCfCKj7u5FYu3KpFFTeWI1r2uBJyMsIdECZ5QHLVVsbwWXmKKi\_M6-\_UAeuxWIzNAMzI5BZaxf3ADZ2qf6dQOk4Jz7tlN8lGgyrGQ7AevsQbOT9l9XRKKNvsrQ' \

--data-raw 'SELECT (COUNT(?x) AS ?n) WHERE {GRAPH <http://sepatest> {?x ?y ?z}}'

RESPONSE

{

"method": "POST",

"protocol": "HTTP",

"headers": {

"Accept": "application/json",

"Content-Type": "application/sparql-query",

"Authorization": "Bearer eyJhbGciOiJSUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICJyMFNhMHFDdzZYVDNSZlpOaC13NHlEYU5Pb3F5X3g4SjFjRWpjMlpidi1zIn0..M0vzJKt0eq1J4x\_Kyp4Bmg2583XxwhF-QxkkRSTv7wVx-Fji\_2rGB-gOJtwQkdWN9pNigVyTtjwa5qqVwzGK94jUM5h-oxi-4sxhZrm3yvmsO7ru35-8PdIqsKf3EeLaYY1\_lbd6T9D6G9xqpC12mmxxemXFQUNsQZcaplnEYuOjjlWPUwLvADY3w-FulYuZADIhxwq1iY6RIOld\_t\_aSMd27dxcJCfCKj7u5FYu3KpFFTeWI1r2uBJyMsIdECZ5QHLVVsbwWXmKKi\_M6-\_UAeuxWIzNAMzI5BZaxf3ADZ2qf6dQOk4Jz7tlN8lGgyrGQ7AevsQbOT9l9XRKKNvsrQ",

"User-Agent": "PostmanRuntime/7.28.4",

"Cache-Control": "no-cache",

"Postman-Token": "f4e7ce4c-60d4-4358-afe1-202cc6f18e99",

"Host": "sepa.vaimee.it:9001",

"Accept-Encoding": "gzip, deflate, br",

"Connection": "keep-alive",

"Content-Length": "67"

},

"body": "SELECT (COUNT(?x) AS ?n) WHERE {GRAPH <http://sepatest> {?x ?y ?z}}"

}