

Hướng dẫn lấy accessToken và truy vấn API Cerner FHIR

Bước 1: Chuẩn bị thông tin

- **client_id** và **client_secret**: lấy từ cấu hình hoặc Cerner Developer Portal.
- **token endpoint**:

```
https://authorization.cerner.com/tenants/ec2458f2-1e24-41c8-b71b-0e701af7583d/protocols/oauth2/profiles/smart-v1/token
```

- **FHIR base URL**:

```
https://fhir-ehr-code.cerner.com/r4/ec2458f2-1e24-41c8-b71b-0e701af7583d/
```

Bước 2: Lấy accessToken bằng lệnh curl

```
curl -X POST "https://authorization.cerner.com/tenants/ec2458f2-1e24-41c8-b71b-0e701af7583d/protocols/oauth2/profiles/smart-v1/token" \  
-H "Content-Type: application/x-www-form-urlencoded" \  
-u "YOUR_CLIENT_ID:YOUR_CLIENT_SECRET" \  
-d "grant_type=client_credentials&scope=system/Patient.read"
```

```
curl -X POST "https://authorization.cerner.com/tenants/ec2458f2-1e24-41c8-b71b-0e701af7583d/protocols/oauth2/profiles/smart-v1/token" \  
-H "Content-Type: application/x-www-form-urlencoded" \  
-u "3105cec1-37b9-43d8-a0a8-15b692273d84:4EqSks59s0PKP4-k9FoG_SnLkm29ZWfm" \  
-d "grant_type=client_credentials&scope=system/Patient.read"
```

Response: (example)

```
{"access_token":"eyJraWQiOiIyMDI1LTA5LTE0VDAyOjE1OjEwLjQ3Ny5lYy5lczl1NilsInR5cCI6IkpXVCIsImFsZyI6IkpVTMjU2In0.eyJpc3MiOiJodHRwczovL
```

2F1dGhvcml6YXRpb24uY2VybmVybLmNvbS8iLCJleHAiOiE3NTc5MDc2Mzc
slmlhdCI6MTc1NzkwNzAzNywianRpljoiN2ZiZjlwZjYtYTUyYy00Njc5LTkzOD
ctYmM1ZGU5YjllODhlliwidXJuOmNlcm5lcjphdXRob3JpemF0aW9uOmNsY
Wltczp2ZXJzaW9uOjEiOonsidmVyljoiMS4wliwicHJvZmlsZXMiOonsic21hcnQt
djEiOonsiYXpzljoi3IzdGVtL1BhdGllbnQucmVhZCJ9fSwiY2xpZW50ljp7Im5h
bWUiOiJITVMgQ2VybmVyleZISVlgSW50ZWdyYXRpb24iLCJpZCI6IjMxMD
VjZW50LTM3YjktNDNkOC1hMGE4LTE1YjY5MjI3M2Q4NCJ9LCJ0ZW5hbn
QiOiJiYzI0NTNmMi0xZTI0LTQxYzgtYjcxYi0wZTcwMWFmNzU4M2QifX0.HD
Sya47QRaf9nu0swf-xqPGV6wUvii653cko0RICsvZymvYhrGb6n6YazsNdfit
LCMixGI42WhTxRm-VtXNyCQ","scope":"system\\Patient.read","token_typ
e":"Bearer","expires_in":570}

3. Truy vấn API Cerner FHIR

Sau khi nhận được accessToken (trường `access_token` trong response), dùng token này để gọi các API FHIR.

Ví dụ: Lấy thông tin bệnh nhân

```
curl -X GET "https://fhir-ehr-code.cerner.com/r4/ec2458f2-1e24-41c8-b71b-0e701af7583d/Patient/{patient_id}" \
-H "Authorization: Bearer ACCESS_TOKEN" \
-H "Accept: application/fhir+json"
```

[illegible]

```
zsNdfitLCMixGI42WhTxRm-VtXNyCQ" \
-H "Accept: application/fhir+json"
```

Response: (example)

```
{
  "resourceType": "Patient",
  "id": "12724067",
  "meta": {
    "versionId": "2637",
    "lastUpdated": "2025-05-01T19:18:15.000Z",
    "text": {
      "status": "extensions",
      "div": "\u003Cdiv xmlns=\u0026quot;\u0026quot;http://www.w3.org/1999/xhtml\u0026quot;\u003Cp\u003E\u003Cb\u003EPatient\u003C/b\u003E\u003Cp\u003E\u003Cb\u003EName\u003C/b\u003E: TESTPATIENT III, JOE Test\u003Cp\u003E\u003Cb\u003EStatus\u003C/b\u003E: Active\u003Cp\u003E\u003Cb\u003EEDOB\u003C/b\u003E: Jun 29, 1907\u003Cp\u003E\u003Cb\u003EBirth Sex\u003C/b\u003E: Male\u003Cp\u003E\u003Cb\u003EAdministrative Gender\u003C/b\u003E: Female\u003Cp\u003E\u003Cb\u003EMarital Status\u003C/b\u003E: Divorced\u003Cp\u003E\u003Cdiv\u003E",
      "extension": [
        {
          "id": "491826657",
          "extension": [
            {
              "valueCodeableConcept": {
                "coding": [
                  {
                    "system": "https://fhir.cerner.com/ec2458f2-1e24-41c8-b71b-0e701af7583d/codeSet/4640016",
                    "code": "2572136737",
                    "display": "Clinical Communications",
                    "userSelected": true
                  },
                  {
                    "system": "http://terminology.hl7.org/CodeSystem/communication-topic",
                    "code": "progress-update",
                    "display": "Progress Update",
                    "userSelected": false
                  }
                ],
                "text": "Clinical Communications",
                "url": "communication-type",
                "valueCodeableConcept": {
                  "coding": [
                    {
                      "system": "https://fhir.cerner.com/ec2458f2-1e24-41c8-b71b-0e701af7583d/codeSet/23042",
                      "code": "4054467",
                      "display": "Telephone",
                      "userSelected": true
                    },
                    {
                      "system": "http://hl7.org/fhir/contact-point-system",
                      "code": "phone",
                      "display": "Phone",
                      "userSelected": false
                    }
                  ],
                  "text": "Telephone",
                  "url": "contact-method",
                  "valueCodeableConcept": {
                    "coding": [
                      {
                        "system": "https://fhir.cerner.com/ec2458f2-1e24-41c8-b71b-0e701af7583d/codeSet/43",
                        "code": "4149712",
                        "display": "MOBILE",
                        "userSelected": true
                      },
                      {
                        "system": "http://hl7.org/fhir/contact-point-use",
                        "code": "mobile",
                        "display": "Mobile",
                        "userSelected": false
                      }
                    ],
                    "text": "MOBILE",
                    "url": "contact-type",
                    "url": "https://fhir-ehr.cerner.com/r4/StructureDefinition/communication-preference",
                    "valueCode": "M",
                    "url": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-birthsex",
                    "extension": [
                      {
                        "valueCoding": {
                          "system": "urn:oid:2.16.840.1.113883.6.238",
                          "code": "1002-5",
                          "display": "American Indian or Alaska Native",
                          "userSelected": false
                        },
                        "url": "ombCategory",
                        "valueString": "American Indian or Alaska Native",
                        "url": "text"
                      }
                    ],
                    "url": "http://hl7.org/fhir/us/core/StructureDefinition/us-"

```

```
core-race"},"extension":[{"valueString":"Unavailable","url":"text"},"url":"http://hl7.org/fhir/us/core/StructureDefinition/us-core-ethnicity"},"valueCodeableConcept":{"coding":[{"system":"http://snomed.info/sct","code":"446151000124109","display":"Identifies as male gender (finding)","userSelected":false}],"text":"Identifies as male"},"url":"http://hl7.org/fhir/us/core/StructureDefinition/us-core-genderIdentity"},"valueCode":"248152002","url":"http://hl7.org/fhir/us/core/StructureDefinition/us-core-sex"},"identifier":[{"id":"CI-490505795-0","use":"usual","type":{"coding":[{"system":"https://fhir.cerner.com/ec2458f2-1e24-41c8-b71b-0e701af7583d/codeSet/4","code":"2","display":"Community Medical Record Number","userSelected":true},{"system":"http://terminology.hl7.org/CodeSystem/v2-0203","code":"MR","display":"Medical record number","userSelected":false}],"text":"Community Medical Record Number"},"system":"urn:oid:2.16.840.1.113883.3.787.0.0","value":"22304","_value":{"extension":[{"valueString":"22304","url":"http://hl7.org/fhir/StructureDefinition/rendered-value"}]}},{id":"CI-490489455-1","use":"usual","type":{"coding":[{"system":"https://fhir.cerner.com/ec2458f2-1e24-41c8-b71b-0e701af7583d/codeSet/4","code":"10","display":"MRN","userSelected":true},{"system":"http://terminology.hl7.org/CodeSystem/v2-0203","code":"MR","display":"Medical record number","userSelected":false}],"text":"MRN"},"system":"urn:oid:2.16.840.1.113883.6.1000","value":"29994","_value":{"extension":[{"valueString":"00000029994","url":"http://hl7.org/fhir/StructureDefinition/rendered-value"}]},"period":{"start":"2021-12-12T05:00:00.000Z","end":"2022-01-02T05:00:00.000Z"}},{id":"CI-491204504-2","use":"usual","type":{"coding":[{"system":"https://fhir.cerner.com/ec2458f2-1e24-41c8-b71b-0e701af7583d/codeSet/4","code":"10","display":"MRN","userSelected":true},{"system":"http://terminology.hl7.org/CodeSystem/v2-0203","code":"MR","display":"Medical record number","userSelected":false}],"text":"MRN"},"system":"urn:oid:2.16.840.1.113883.6.1000","value":"29994","_value":{"extension":[{"valueString":"00000029994","url":"http://hl7.org/fhir/StructureDefinition/rendered-value"}]},"period":{"start":"2018-01-02T05:00:00.000Z","end":"2022-01-02T05:00:00.000Z"}},{id":"CI-490525912-3","use":"usual","type":{"coding":[{"system":"https://fhir.cerner.com/ec2458f2-1e24-41c8-b71b-0e701af7583d/codeSet/4","code":"10","display":"MRN","userSelected":true},{"system":"http://terminology.hl7.org/CodeSystem/v2-0203","code":"MR","display":"Medical record number","userSelected":false}],"text":"MRN"},"system":"urn:oid:2.16.840.1.113883.6.1000","value":"31577","_value":{"extension":[{"valueString":"00000031577","url":"http://hl7.org/fhir/StructureDefinition/rendered-value"}]}}
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e"}]]}, {"id": "CI-490058771-4", "use": "usual", "type": {"coding": [{"system": "https://fhir.cerner.com/ec2458f2-1e24-41c8-b71b-0e701af7583d/codeSet/4", "code": "10", "display": "MRN", "userSelected": true}, {"system": "http://terminology.hl7.org/CodeSystem/v2-0203", "code": "MR", "display": "Medical record number", "userSelected": false}], "text": "MRN", "system": "urn:oid:2.16.840.1.113883.6.1000", "value": "6978", "_value": {"extension": [{"valueString": "0000006978", "url": "http://hl7.org/fhir/StructureDefinition/rendered-value"}]}}, {"period": {"end": "2020-07-06T21:21:25.000Z"}}, {"id": "CI-490068348-6", "use": "usual", "type": {"coding": [{"system": "https://fhir.cerner.com/ec2458f2-1e24-41c8-b71b-0e701af7583d/codeSet/4", "code": "22", "display": "Military Id", "userSelected": true}], "text": "Military Id", "system": "urn:oid:2.16.840.1.113883.3.42.10001.100001.12", "value": "56589895656", "_value": {"extension": [{"valueString": "56589895656", "url": "http://hl7.org/fhir/StructureDefinition/rendered-value"}]}}, {"period": {"start": "2020-08-10T16:35:27.000Z"}}, {"id": "CI-493806291-7", "use": "usual", "type": {"coding": [{"system": "https://fhir.cerner.com/ec2458f2-1e24-41c8-b71b-0e701af7583d/codeSet/4", "code": "670843", "display": "Messaging", "userSelected": true}, {"system": "http://terminology.hl7.org/CodeSystem/v2-0203", "code": "U", "display": "Unspecified identifier", "userSelected": false}], "text": "Messaging", "system": "urn:oid:2.16.840.1.113883.3.13.8", "value": "303C912A380240BC924B83CA83875EBB", "_value": {"extension": [{"valueString": "303C912A380240BC924B83CA83875EBB", "url": "http://hl7.org/fhir/StructureDefinition/rendered-value"}]}}, {"period": {"start": "2024-06-26T13:44:05.000Z"}}, {"id": "CI-493806288-8", "use": "usual", "type": {"coding": [{"system": "https://fhir.cerner.com/ec2458f2-1e24-41c8-b71b-0e701af7583d/codeSet/4", "code": "2553236771", "display": "Federated Person Principal", "userSelected": true}, {"system": "http://terminology.hl7.org/CodeSystem/v2-0203", "code": "AN", "display": "Account number", "userSelected": false}], "text": "Federated Person Principal", "system": "urn:oid:2.16.840.1.113883.3.13.6", "value": "URN:CERNER:IDENTITY-FEDERATION:REALM:EC2458F2-1E24-41C8-B71B-0E701AF7583D-CH:PRINCIPAL:AN7TD9A62CV8Z53Z", "_value": {"extension": [{"valueString": "URN:CERNER:IDENTITY-FEDERATION:REALM:EC2458F2-1E24-41C8-B71B-0E701AF7583D-CH:PRINCIPAL:AN7TD9A62CV8Z53Z", "url": "http://hl7.org/fhir/StructureDefinition/rendered-value"}]}}, {"period": {"start": "2024-06-26T13:44:03.000Z"}}, {"id": "CI-490153234-9", "use": "usual", "type": {"coding": [{"system": "https://fhir.cerner.com/ec2458f2-1e24-41c8-b71b-0e701af7583d/codeSet/4", "code": "2553236785", "display": "Millennium Person Identifier", "userSelected": true}], "text": "Millennium Person Identifier", "_system": {"extension

```



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n":{"valueCode":"unknown","url":"http://hl7.org/fhir/StructureDefinition/data-absent-reason"}},{"value":"12869","_value":{"extension":{"valueString":"12869","url":"http://hl7.org/fhir/StructureDefinition/rendered-value"}},{"period":{"start":"2017-01-23T06:00:00.000Z"}},{"active":true,"name":{"id":"CI-12724067-0","use":"official","text":"TESTPATIENT III, JOE Test","family":"TESTPATIENT","given":["JOE","Test"],"suffix":["III"],"period":{"start":"2025-02-28T14:11:22.000Z"}},{"id":"CI-495366414-0","use":"old","text":"SMART III, Joe","family":"SMART","given":["Joe"],"suffix":["III"],"period":{"start":"2024-10-23T19:44:24.000Z","end":"2025-02-28T14:11:23.000Z"}},{"id":"CI-494412206-1","use":"old","text":"SMART III, Joey","family":"SMART","given":["Joey"],"suffix":["III"],"period":{"start":"2024-10-23T19:40:42.000Z","end":"2024-10-23T19:44:24.000Z"}},{"id":"CI-494412196-2","use":"old","text":"SMART III, Joseph","family":"SMART","given":["Joseph"],"suffix":["III"],"period":{"start":"2024-10-23T19:21:03.000Z","end":"2024-10-23T19:40:42.000Z"}},{"id":"CI-494412145-3","use":"old","text":"SMART III, Joe","family":"SMART","given":["Joe"],"suffix":["III"],"period":{"start":"2024-10-23T19:19:45.000Z","end":"2024-10-23T19:21:03.000Z"}},{"id":"CI-494412140-4","use":"old","text":"SMART III, Joseph","family":"SMART","given":["Joseph"],"suffix":["III"],"period":{"start":"2024-10-23T19:18:16.000Z","end":"2024-10-23T19:19:45.000Z"}},{"id":"CI-494412135-5","use":"old","text":"SMART III, Joe","family":"SMART","given":["Joe"],"suffix":["III"],"period":{"start":"2024-10-23T19:16:11.000Z","end":"2024-10-23T19:18:16.000Z"}},{"id":"CI-494412130-6","use":"old","text":"SMART III, Joseph","family":"SMART","given":["Joseph"],"suffix":["III"],"period":{"start":"2024-10-23T19:15:17.000Z","end":"2024-10-23T19:16:11.000Z"}},{"id":"CI-494412125-7","use":"old","text":"SMART III, JOey","family":"SMART","given":["JOey"],"suffix":["III"],"period":{"start":"2024-10-23T19:13:48.000Z","end":"2024-10-23T19:15:17.000Z"}},{"id":"CI-494412119-8","use":"old","text":"SMART III, Joseph","family":"SMART","given":["Joseph"],"suffix":["III"],"period":{"start":"2024-10-23T19:08:10.000Z","end":"2024-10-23T19:13:48.000Z"}},{"id":"CI-494412099-9","use":"old","text":"SMART III, Joey","family":"SMART","given":["Joey"],"suffix":["III"],"period":{"start":"2024-10-23T19:04:27.000Z","end":"2024-10-23T19:08:10.000Z"}},{"id":"CI-494412090-10","use":"old","text":"SMART III, Joseph","family":"SMART","given":["Joseph"],"suffix":["III"],"period":{"start":"2024-10-23T18:59:12.000Z","end":"2024-10-23T19:04:27.000Z"}},{"id":"CI-494412075-11","use":"old","text":"SMART III, Joey","family":"SMART","given":["Joey"],"suffix":["III"],"period":{"start":"2024-10-23T18:58:24.000Z","end":"2024-10-23T18:59:12.000Z"}},{"id":"CI-494

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412070-12","use":"old","text":"SMART III, Joseph","family":"SMART","give
n":["Joseph"],"suffix":["III"],"period":{"start":"2024-10-23T18:53:56.000
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I"],"period":{"start":"2024-10-23T18:51:11.000Z","end":"2024-10-23T18:53:
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h","family":"SMART","given":["Joseph"],"suffix":["III"],"period":{"start":"202
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4412049-15","use":"old","text":"SMART III, Joey","family":"SMART","given":
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d":"2024-10-23T18:46:02.000Z"}},{ "id":"CI-494412044-16","use":"old","te
xt":"SMART III, Joe","family":"SMART","given":["Joe"],"suffix":["III"],"perio
d":{"start":"2024-10-23T18:40:02.000Z","end":"2024-10-23T18:45:06.000
Z"}},{ "id":"CI-494412018-17","use":"old","text":"SMART III, Jsoeph","famil
y":"SMART","given":["Jsoeph"],"suffix":["III"],"period":{"start":"2024-10-23
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3-18","use":"old","text":"SMART III, Joey","family":"SMART","given":["Joe
y"],"suffix":["III"],"period":{"start":"2024-10-23T18:36:19.000Z","end":"202
4-10-23T18:38:49.000Z"}},{ "id":"CI-494412008-19","use":"old","text":"SM
ART III, Joseph","family":"SMART","given":["Joseph"],"suffix":["III"],"perio
d":{"start":"2024-10-23T18:34:50.000Z","end":"2024-10-23T18:36:19.000
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y":"SMART","given":["joey"],"suffix":["III"],"period":{"start":"2024-10-23T1
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fix":["III"],"period":{"start":"2024-06-26T13:43:07.000Z","end":"2024-10-2
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e"],"suffix":["III"],"period":{"start":"2024-03-12T16:26:08.000Z","end":"202
4-03-12T16:28:02.000Z"}},{ "id":"CI-493525511-24","use":"old","text":"Sm
art III, Joe","family":"Smart","given":["Joe"],"suffix":["III"],"period":{"star
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d":"CI-493522753-25","use":"old","text":"Smart III, Glow","family":"Smar
t","given":["Glow"],"suffix":["III"],"period":{"start":"2024-03-11T20:11:13.00
0Z","end":"2024-03-11T20:24:37.000Z"}},{ "id":"CI-493522748-26","us
e":"old","text":"Smart III, Joe","family":"Smart","given":["Joe"],"suffix":["II

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