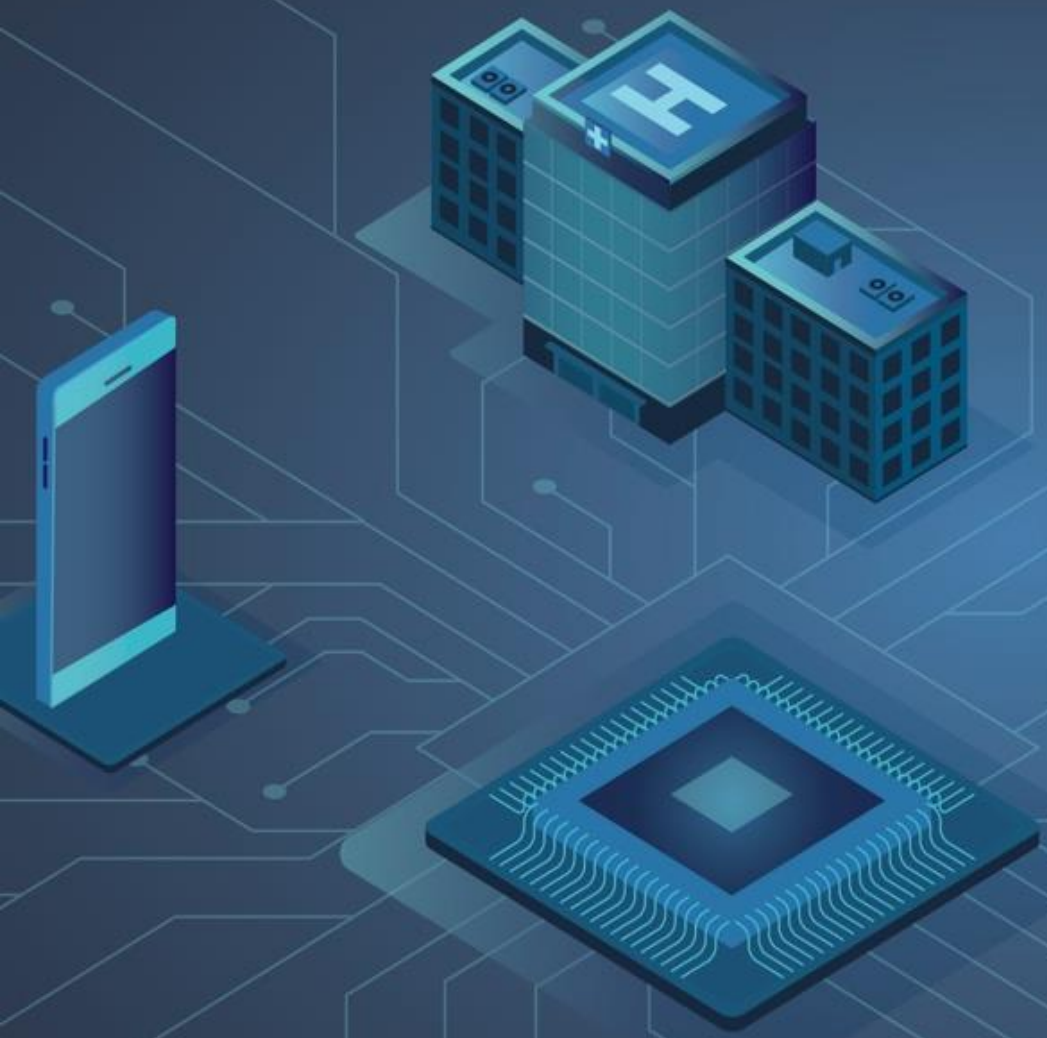

INTEROPERABILITY LAND™

QuickStart Guide

Interoperability Land (IOL) Overview

- Interoperability Land is a shared digital space that allows advanced interoperability testing and development across different organizations and systems through data visualization.
- This unique application utilizations **PatientGen™**, a realistic synthetic healthcare test data generator designed to showcase new technology, promote standards (e.g. HL7 FHIR®), and accelerate interoperability.
- **This synthetic ecosystem allows healthcare organizations to:**
  - Safely design, develop and test healthcare apps and services with no risk of disclosing protected health information with reusable personas spanning the network like real patients' interactions
  - Demonstrate apps and services in an engaging and meaningful way using data visualization to reveal interoperability between systems
  - Rigorously test and certify that applications meet standards, performance and scalability requirements
  - Collaborate with other organizations to develop and test interoperable, standards-compliant solutions
  - Host collaborative events to promote learning and standards-based technology adoption
  - Deliver higher quality applications and services faster to market

Ring of FHIR Overview

- Composed of:
  - 11 FHIR PIT's - servers that represent real world healthcare organizations
  - Health Information Network that includes
    - Active Care Relationship Server (ACRS) that maps patient provider attributions
    - A Health Directory Server that lists endpoints for healthcare practitioners
- All FHIR PIT's are populated with synthetic healthcare data
- Each FHIR PIT has a unique RESTful end point and a simple web user interface
- Each FHIR PIT is secured with basic authentication

EHR PITs (5)
- Five Lakes Health System
- Soldier Healthcare Alliance
- Independent Primary Network
- Specialist Network Administration
- New Hope Services

Pharmacy PITs (2)
- Oak Tree Pharmacy
- TrueScript Pharmacy

Payer PITs (3)
- Better Health Insurance
- HealthCaid, HealthCare
- USCare

Health Information Network (1)
- Michigan Health Information Network (MiHIN)

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MiHIN MICHIGAN HEALTH INFORMATION NETWORK SHARED SERVICES

Synthetic FHIR Resources

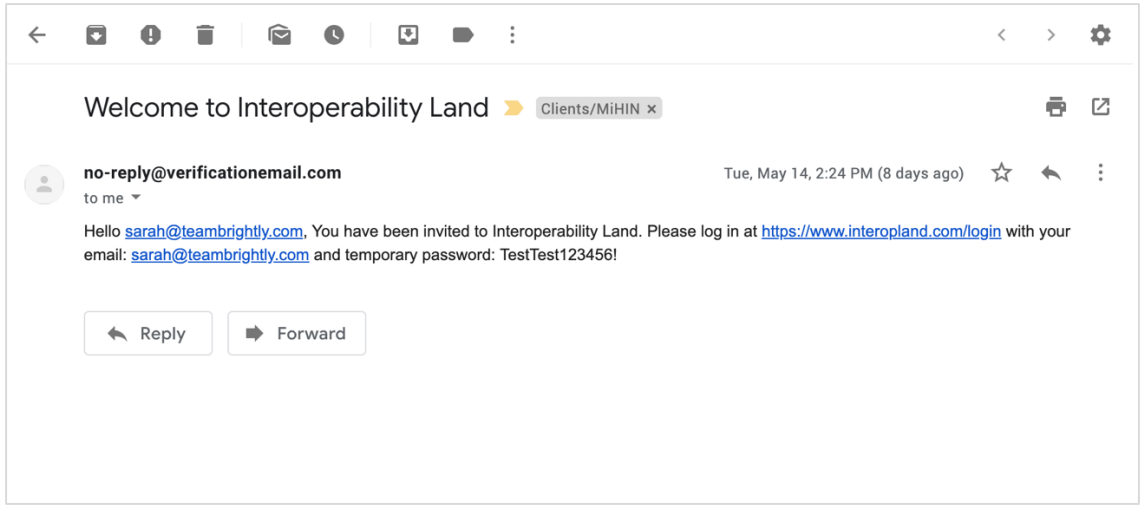
Synthetic FHIR resources are mapped to FHIR PIT's based on the FHIR PIT's function (e.g. EHR, Payer, HD, ACRS, etc.)

- Encounter
- Condition
- MedicationAdministration
- MedicationRequest
- MedicationDispense
- MedicationStatement
- Organization
- Patient
- Practitioner
- Procedure
- CarePlan
- Medication

Step 1: Getting Started

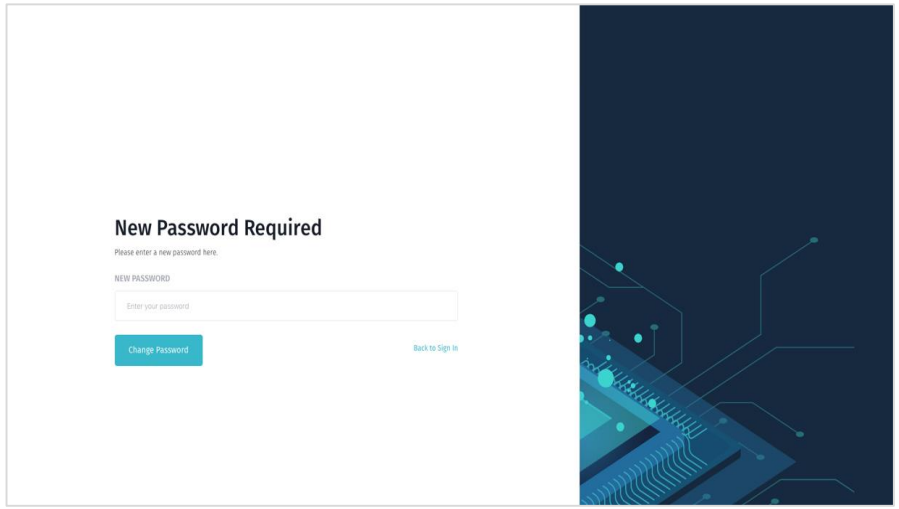
1. Prior to the event you will get a temporary login sent to your specified email address

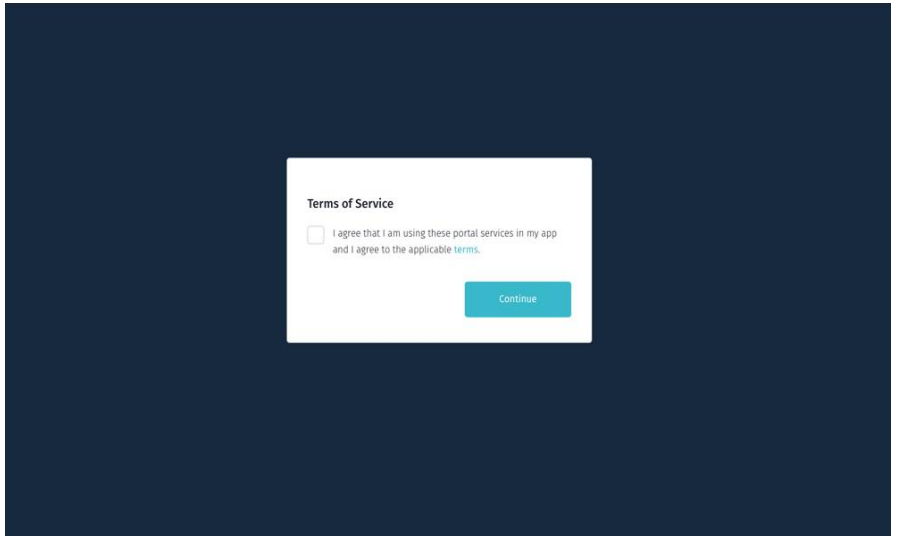
2. Click the link in the email or open your internet browser and enter the following URL: https://www.interopland.com/login



Step 2: Log In

1. Log in to Interoperability Land using the provided temporary credentials
2. Upon logging in you will be asked to reset your password
3. Accept the application Terms and Conditions before proceeding



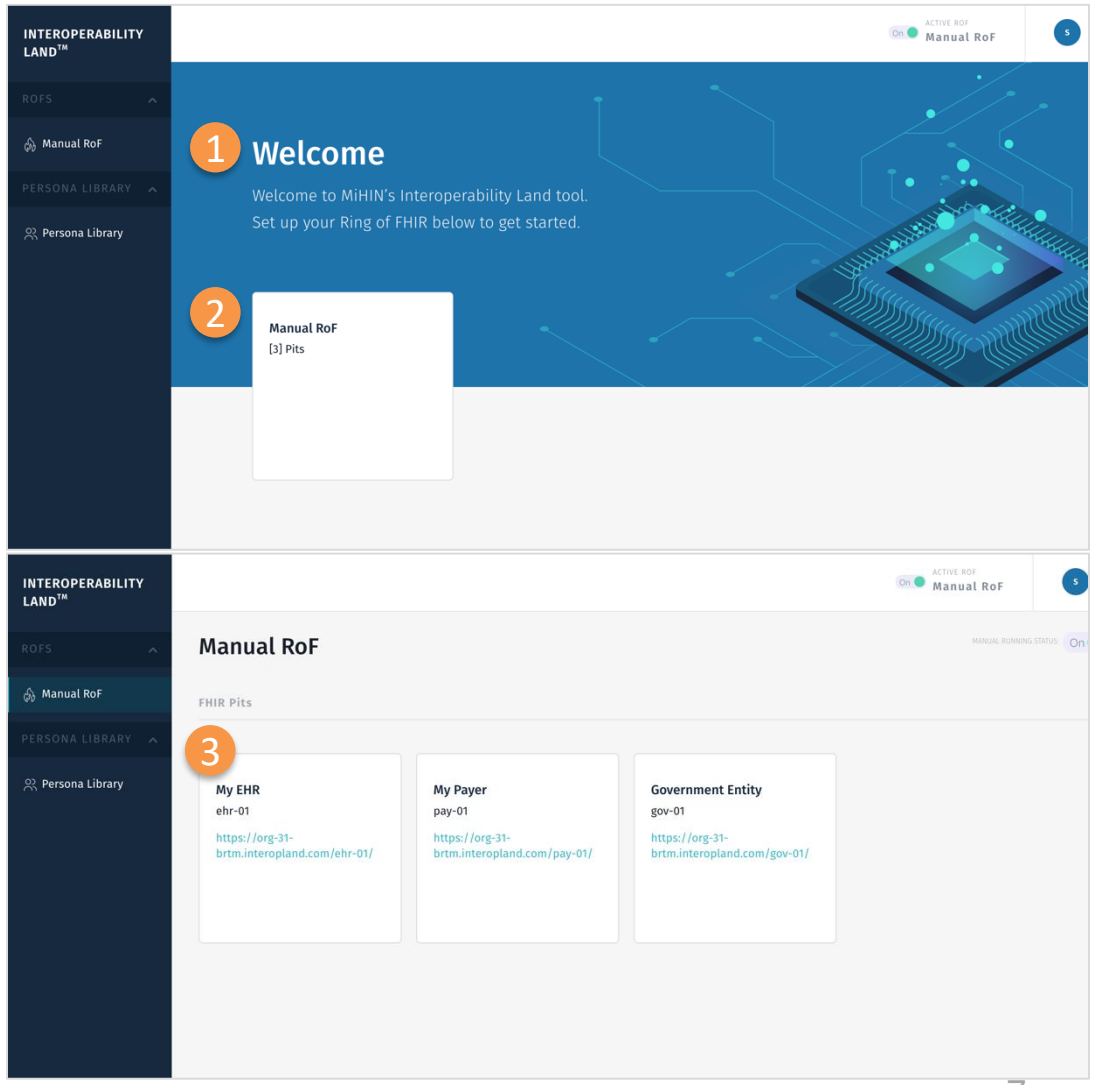


Step 3: Explore the IOL UI

1. The Dashboard shows you the ROF(s) you have access to

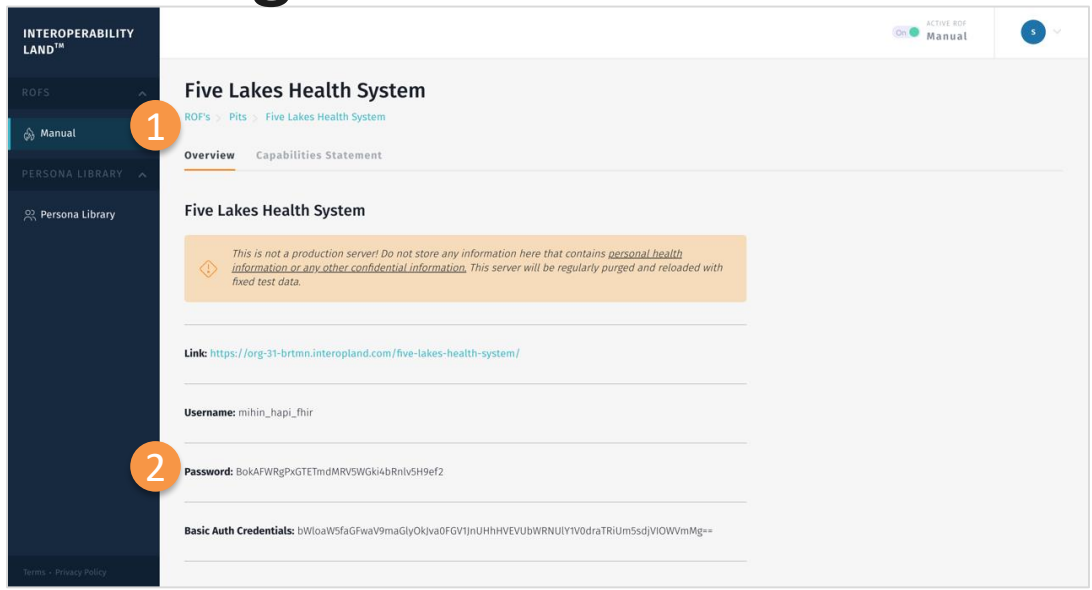
2. Enter the ROF by clicking the white tile or use the left-hand navigation to view the ROF landing page

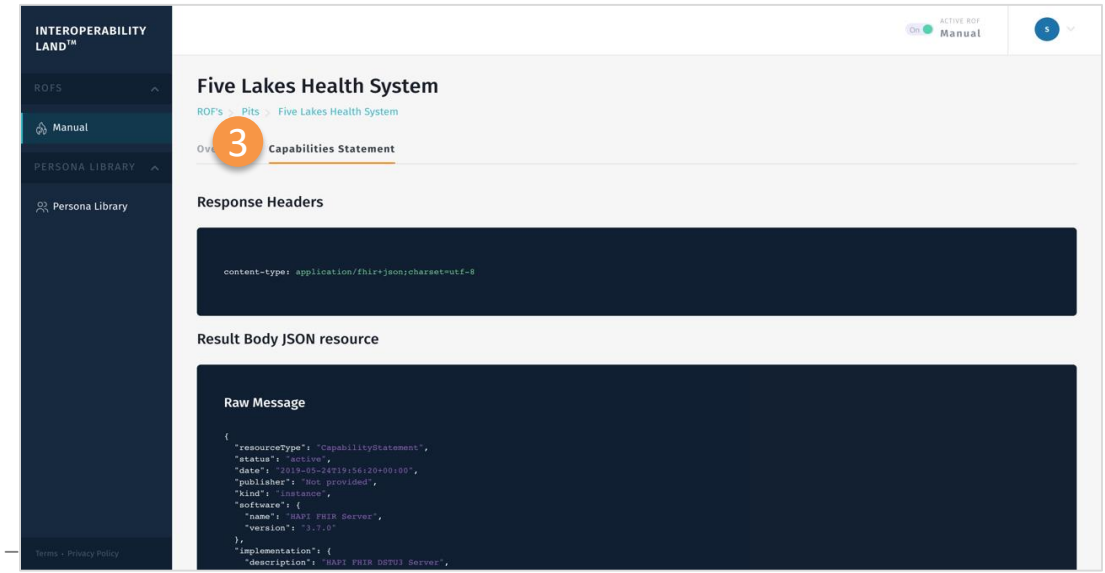
3. View basic pit details on the white tiles pictured and click on a tile to view additional pit information



Step 4: FHIR-PIT Details Page

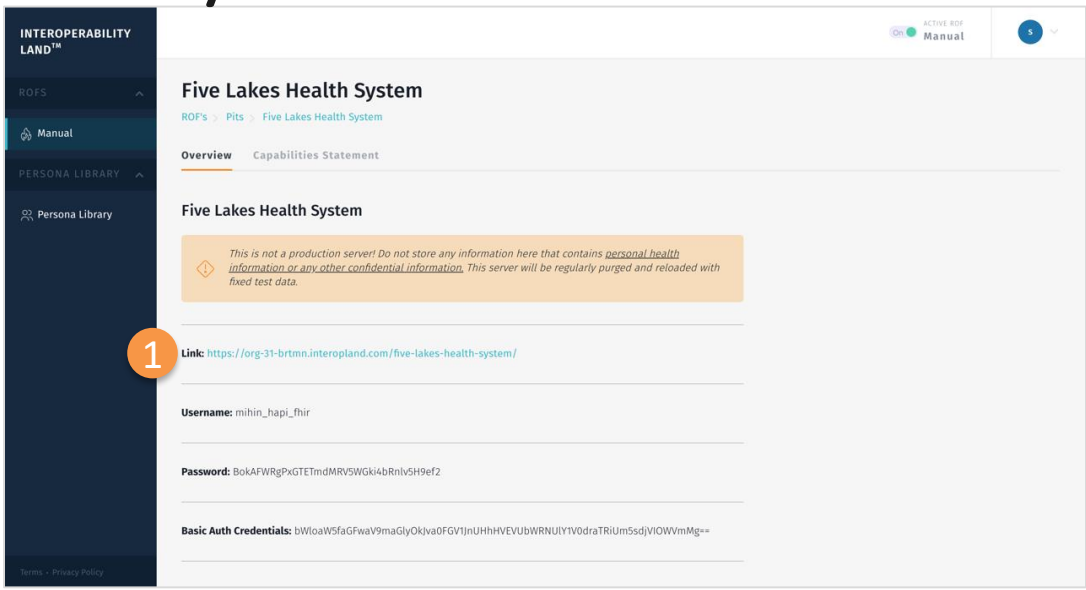
1. FHIR-PIT details page includes information on the type of pit and link to access it
2. View Username, Password, and Basic Auth Credentials
3. View Capabilities Statement

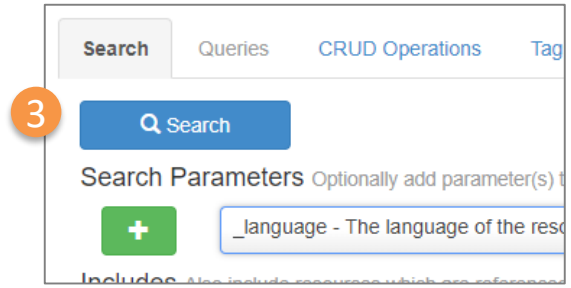


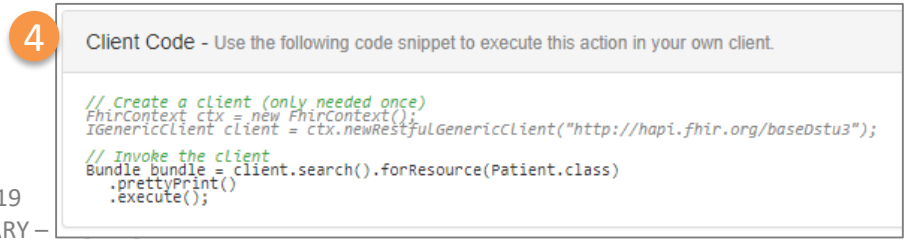


Step 5: A Simple Query

1. Click link to access FHIR-PIT
2. Click “Patient” in the left rail “Resources” menu
3. Click “Search” to return a Bundle of Patient resources from the server
4. View the generated HAPI FHIR java client code







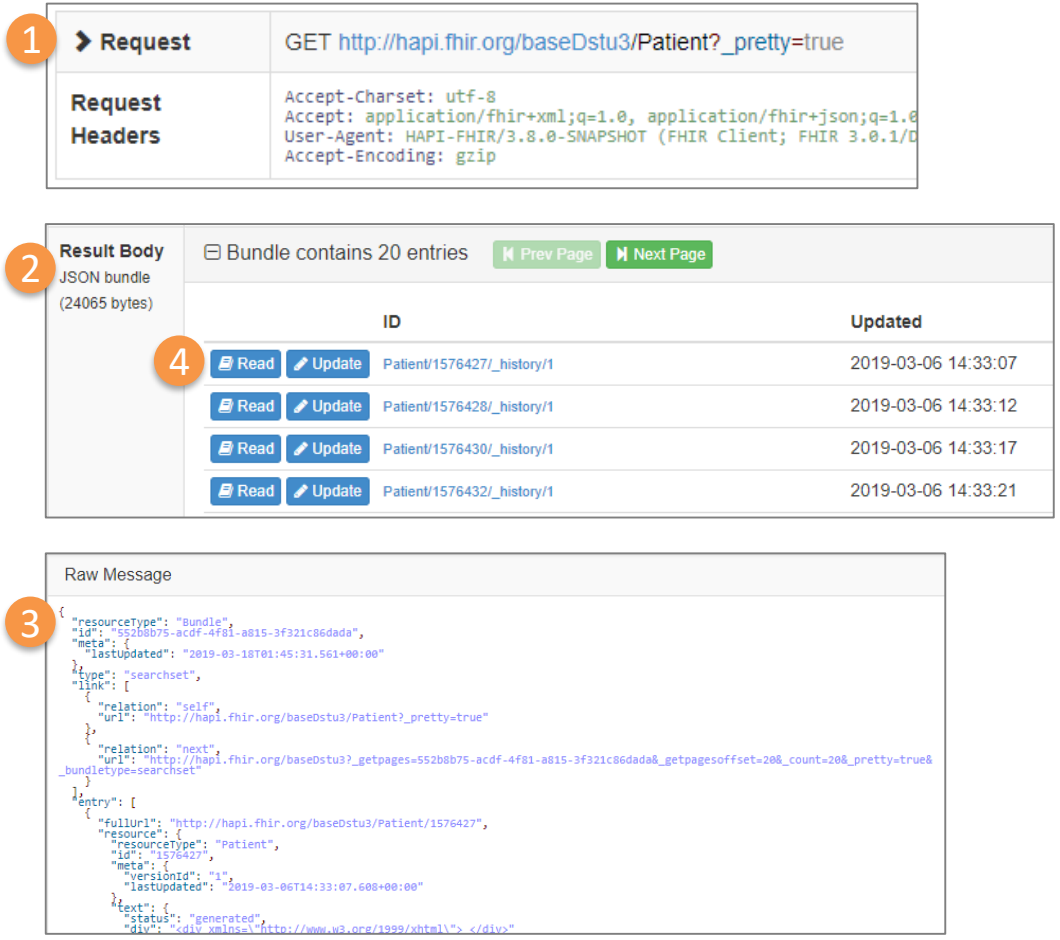
Step 5: Continued - A Simple Query

1. View the GET URL to return all Patient resources on the server - https://[your base URL]-qa.interopland.com/five-lakes-health-system/fhir/Patient

2. View the resources returned in the response bundle

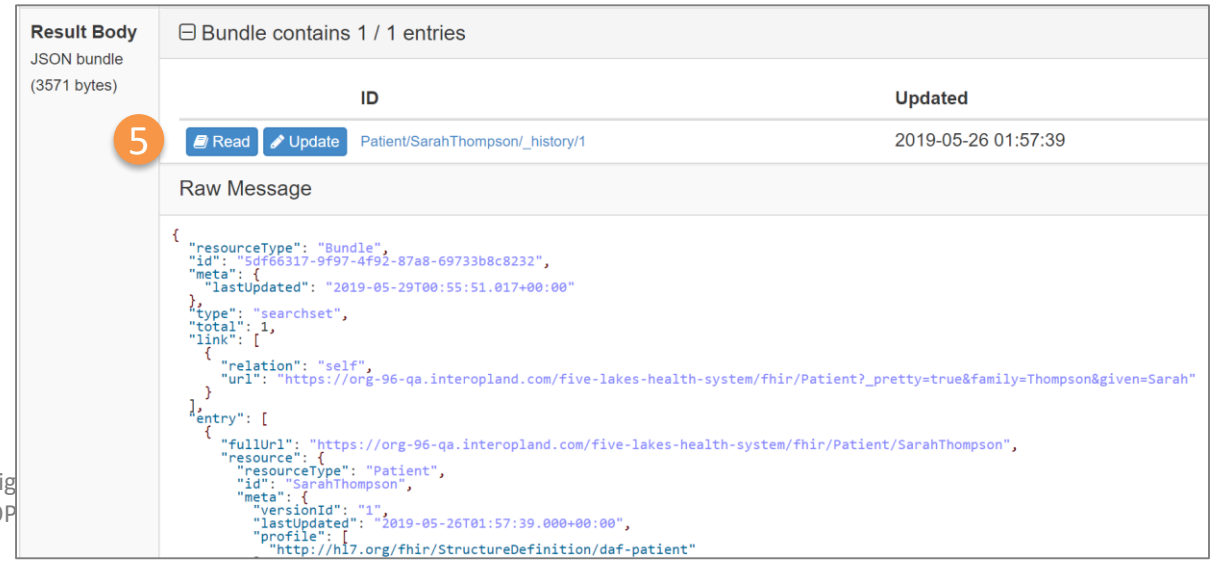
3. View the raw message body content

4. Click “Read” next to a Patient in the “Result Body” section



Step 6: A More Advanced Query

1. Click “Patient” in the left rail “Resources” menu
2. Click “Given” and enter “Sarah” in the search field
3. Click the + button and add Family Name to search criteria. Enter “Thompson” in search field
4. Click “Search” to return a Patient resources from the server
5. Click “Read” next to a Patient in the “Result Body” section
6. View the GET URL to return Patient resources on the server - https://[your base URL]-qa.interopland.com/five-lakes-health-system/fhir/Patient?given=Sarah&family=Thompson



Step 6: Continued - A More Advanced Query

1. In the Raw Message section there will be more information about the Patient

2. Look for “Patient ID” - this can be used to search for more information on the Patient
    a. ID: “SarahThompson”
    b. ID: “Patient/2”

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Try it with Postman

1. Download Postman - https://www.getpostman.com/downloads/
2. Click the down arrow on the orange “New” button and select “Request”
3. Create a request name like “Test Request”
4. Click “Save”
5. Select “Get” and copy the following URL into the “Enter request URL” input box - https://org-96-qa.interopland.com/five-lakes-health-system/fhir/Patient/SarahThompson/_history/1
6. Click “Authorization” then select “Basic Auth” from the “Type” dropdown menu
7. Enter your user name and password on the right
8. Click “Save”
9. Click “Send”