

WEBINAR: "DID YOU KNOW" SERIES - Part 2

Interface Development: Solutions & Workflows

Doing more with Iguana



WITH
LIANNE SO

Agenda

01. Modules and Templates

- Why we use them
- How we use them
- Benefits

02. EMR Integrations

- Why EMR integrations
- Pre-built VMDs
- Template EMR Adapters

03. Non-Clinical Applications

- Why non-clinical applications
- API adapters

04. Cloud Service Integrations

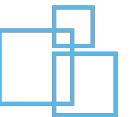
- Deploying Iguana in the cloud
- Integrating with cloud services

01.

Modules & Templates



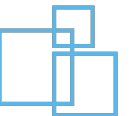
Why pre-built templates?



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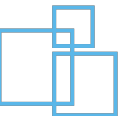


Multiple complex interfaces



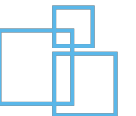
Why pre-built templates?

- ✓ Multiple complex interfaces
- ✓ Tight deadlines



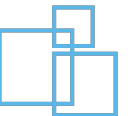
Why pre-built templates?

- ✓ Multiple complex interfaces
- ✓ Tight deadlines
- ✓ Interface migration across integration engines



Did You Know?

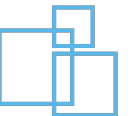
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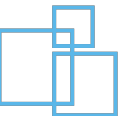
- 1 Template Iguana instance



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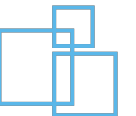
- 1 Template Iguana instance
- 2 Template channel



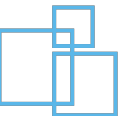
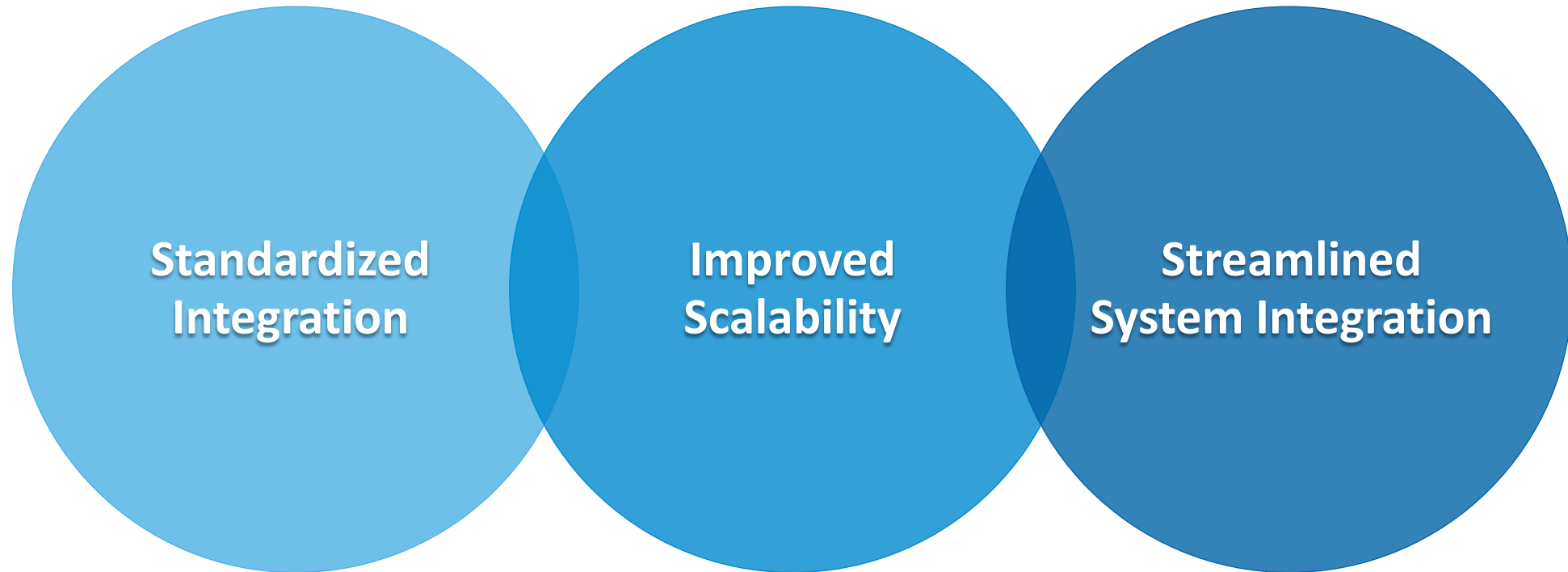
Did You Know?

There are different ways to use our templates

- 1 Template Iguana instance
- 2 Template channel
- 3 Pre-built module



Pre-built Template Benefits



Poll #1

**How many of you present are currently
using Iguana's Pre-Built Templates?**



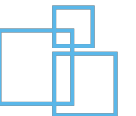
02.

EMR Integrations



Did You Know?

We have pre-built VMDs for many popular EMRs

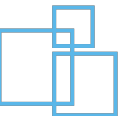


Did You Know?

We have pre-built VMDs for many popular EMRs

Supported Vendors' VMDs

Vendor	Message Types	HL7 Messages	HL7 Versions
EPIC	ADT	<ul style="list-style-type: none">• ADT<ul style="list-style-type: none">◦ A01 - A18◦ A20 - A31◦ A34◦ A35◦ A37 - A41◦ A47◦ A49◦ A52 - A53◦ A60• BAR^P01• DFT^P03	2.4
EPIC	ORU	ORU^R01	2.3
EPIC	ORM	ORM^O01	2.3
Allscripts	MDM	MDM^T02	2.3
AthenaHealth	ADT	ADT^A08	2.3.1
AthenaHealth	PPR	PPR^PC1	2.3.1
AthenaHealth	ORM	ORM^O01	2.3.1
AthenaHealth	ORU	ORU^R01	2.3.1
AthenaHealth	VXU	VXU^V04	2.3.1
AthenaHealth	MDM	MDM^T02	2.3.1
eClinicWorks	ORM	ORM^O01	2.3
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EPIC	ORM	ORM^O01	2.3
Allscripts	MDM	MDM^T02	2.3
AthenaHealth	ADT	ADT^A08	2.3.1
AthenaHealth	PPR	PPR^PC1	2.3.1
AthenaHealth	ORM	ORM^O01	2.3.1
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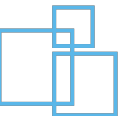


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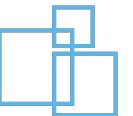
INTERFACEWARE

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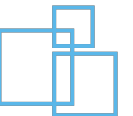
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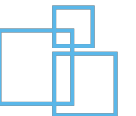
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Did You Know?

It's easy to build your own pre-built VMDs



HL7 Version



Did You Know?

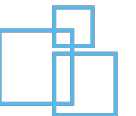
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HL7 Version



EMR System



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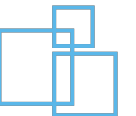
HL7 Version



EMR System




Message Type



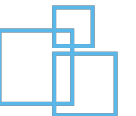
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Incoming Patient
Administration - Registration
and ADT Interface Technical
Specification

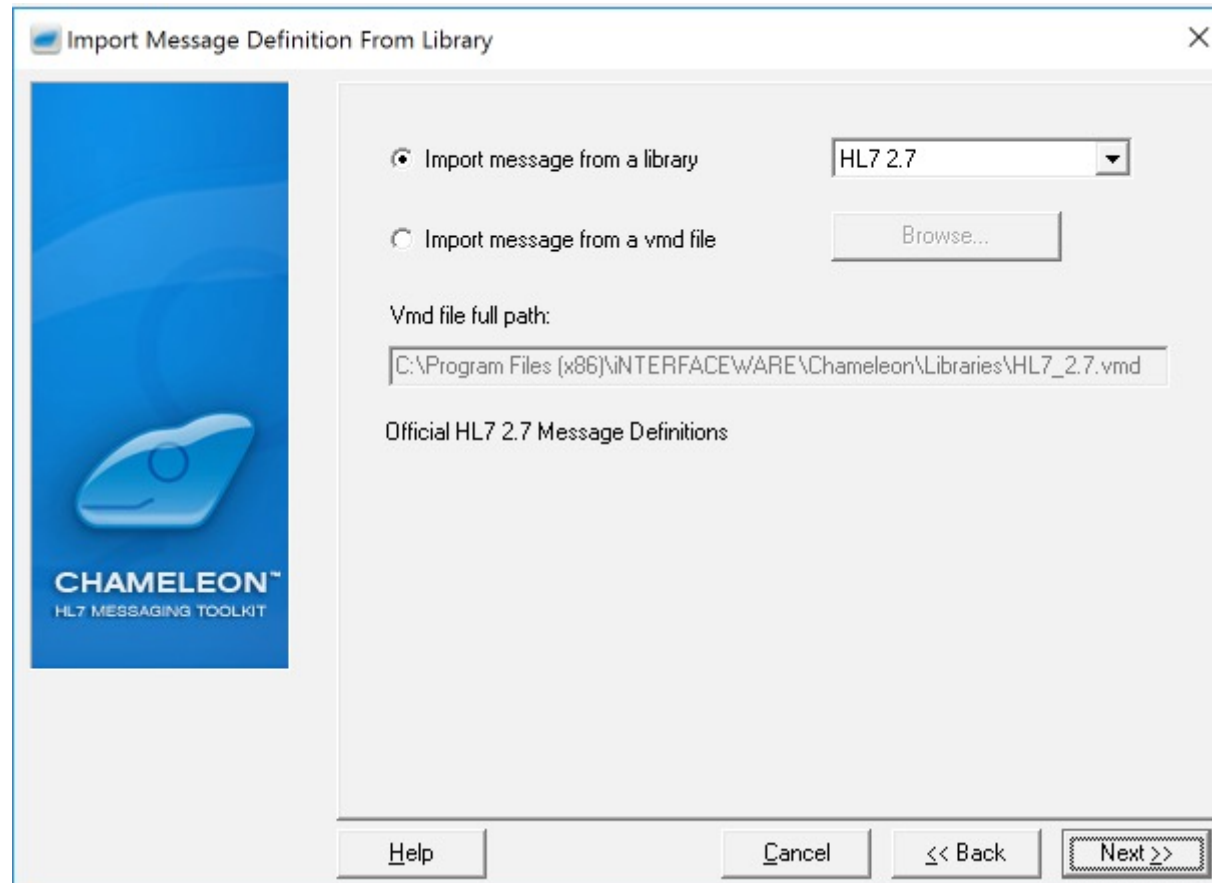
Last Updated: July 29, 2019



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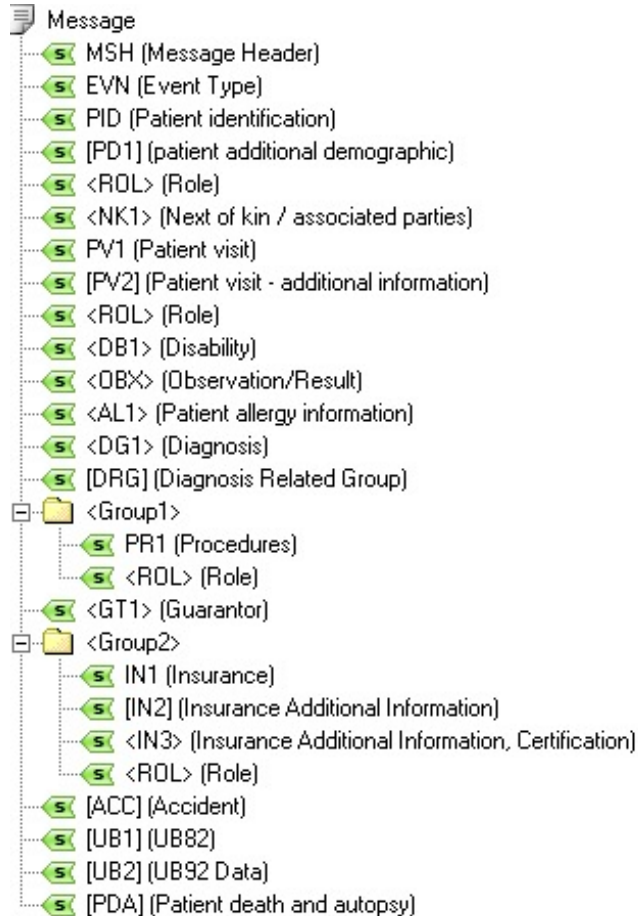
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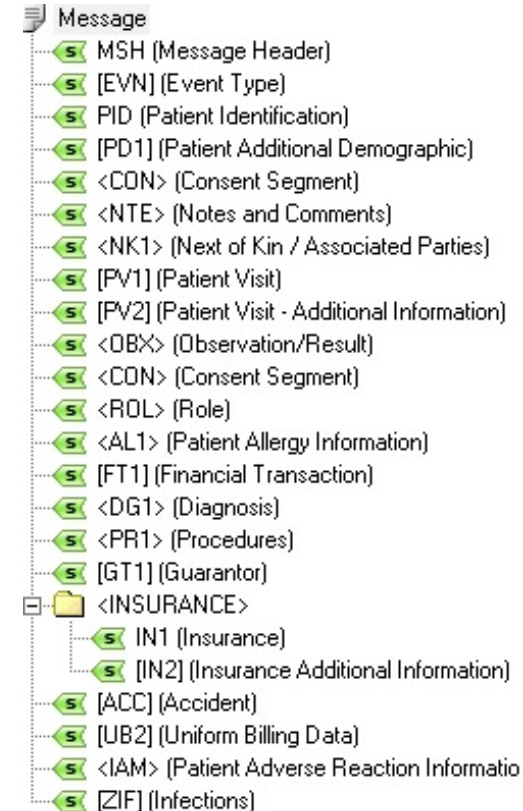


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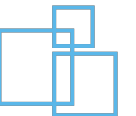
VMD-imported (standard)



Epic VMD (customized)

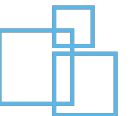
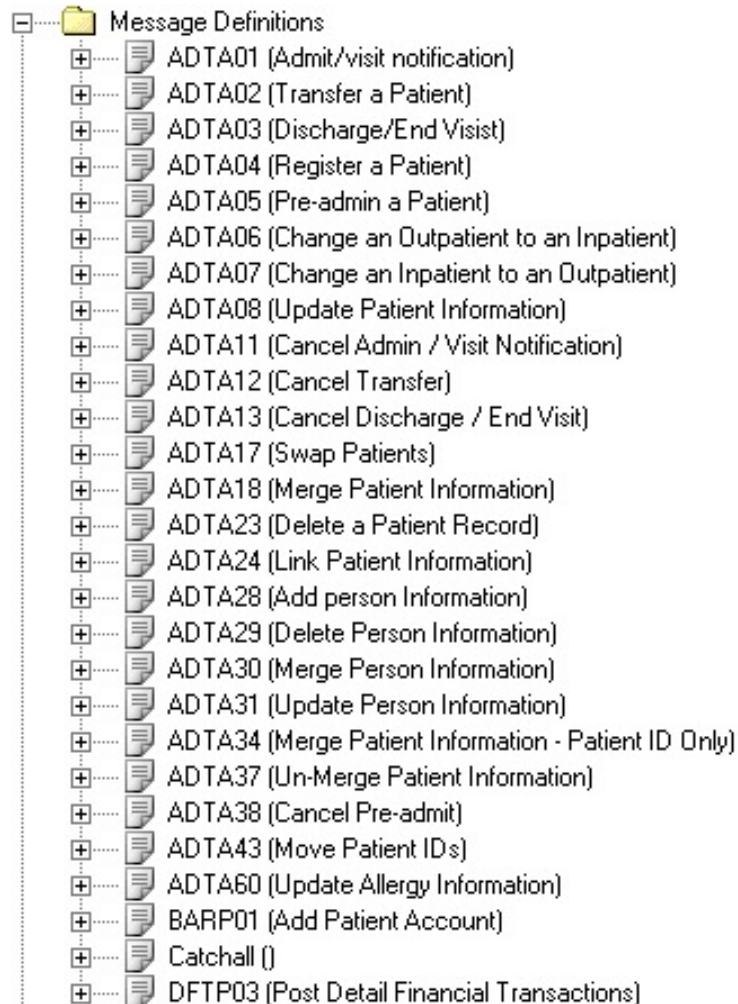
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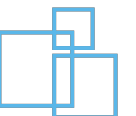
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Did You Know?

We have pre-built adapters for common EMR workflows

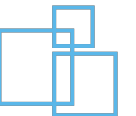
<input type="checkbox"/>	TRANS → QUE	EMR Adapter 2-HL7 CodeMap Util
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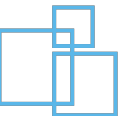
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Generate code mapping stubcode for:



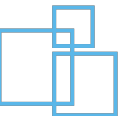
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Generate code mapping stubcode for:
1. Code types for a given version



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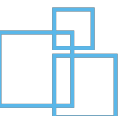
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Generate code mapping stubcode for:

1. Code types for a given version

```
local hl7v = "2.5"
local isCodeSet = true
local codeNames = {
    "Administrative Sex",
    "Segment action code"
}
```



Did You Know?

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<input type="checkbox"/>	TRANS → QUE	EMR Adapter 2-HL7 CodeMap Util
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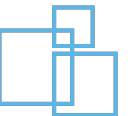
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local codeNames = {
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}
```



```
local code = [[{
  "segment action code": {
    "A": "A",
    "D": "D",
    "U": "U"
  },
  "administrative sex": {
    "A": "A",
    "F": "F",
    "U": "U",
    "M": "M",
    "O": "O",
    "N": "N"
  }
}]
return json.parse{data=code}
```



Did You Know?

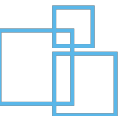
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Generate code mapping stubcode for:

1. Code types for a given version
2. Code types from one version to another



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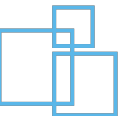
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Generate code mapping stubcode for:

1. Code types for a given version
2. Code types from one version to another

```
local sourceHL7v = "2.5.1"
local destHL7v = "2.3"
-- Create a list of CodeNames:
-- {"SOURCE_NAME", "DESTINATION_NAME", "DEFAULT_CODE_VALUE"},
local codeNames = {
    {"Administrative Sex", "Sex", "U"},
    {"Segment action code", "Segment action code", ""}
}
```



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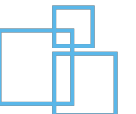
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local codeNames = {
  {"Administrative Sex", "Sex", "U"},
  {"Segment action code", "Segment action code", ""}
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```



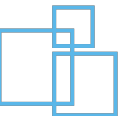
```
local code = [[{
  "segment action code": {
    "A": "A",
    "D": "D",
    "U": "U"
  },
  "administrative sex": {
    "A": "U",
    "F": "F",
    "U": "U",
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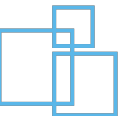
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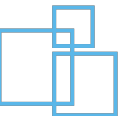
Pre-built EMR Adapter Benefits



Standardized Integrations



Improved Scalability



Poll #2

**What do you think is the biggest benefit
of a Pre-Built EMR Adapter?**



03.

Non-Clinical Applications



Did You Know?

We have several pre-built API adapters



Did You Know?

We have several pre-built API adapters



Did You Know?

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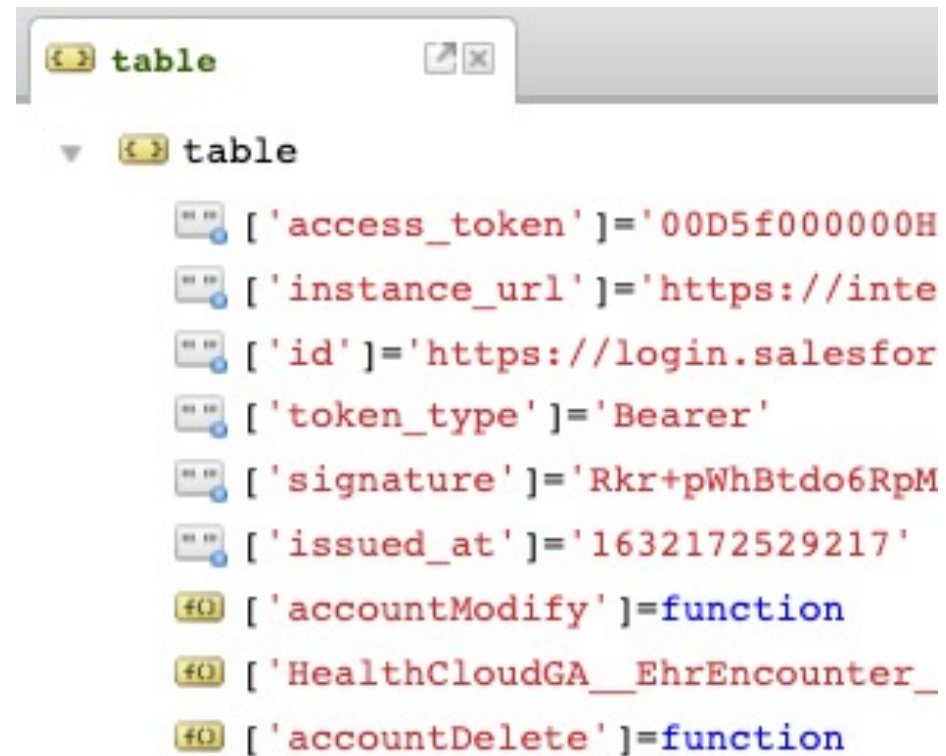
Did You Know?

It's easy to build your own API adapter

Did You Know?

It's easy to build your own API adapter

```
-- Create Salesforce connection object  
local sfAPI = salesforce()
```



Did You Know?

It's easy to build your own API adapter

1. API Documentation

Did You Know?

It's easy to build your own API adapter

1. API Documentation

REST API Developer Guide

PDF ↗

Pages

English v53.0

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REST API >

Quick Start >

Examples >

Reference ▾

Versions

Resources by Version

Limits

Describe Global

sObject Basic Information

sObject Describe

Docs / Atlas / Api_rest

sObject Describe

Completely describes the individual metadata at all levels for the specified object. For example, this can be used to retrieve the fields, URLs, and child relationships for the Account object.

For more information about the metadata that is retrieved, see [DescribesObjectResult](#) in the *SOAP API Developers Guide*.

You can use the `If-Modified-Since` or `If-Unmodified-Since` header with this resource. When using the `If-Modified-Since` header, if no available object's metadata has changed since the provided date, a `304 Not Modified` status code is returned with no response body.

URI

```
/vXX.X/subjects/sObject/describe/
```

Formats

JSON, XML

Did You Know?

It's easy to build your own API adapter

1. API Documentation

REST API Developer Guide

PDF ↗

Pages English v53.0

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- REST API >
- Quick Start >
- Examples >
- Reference ⌵
 - Versions
 - Resources by Version
 - Limits
 - Describe Global
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`/vXX.X/objects/sObject/describe/`

Formats

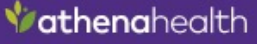
JSON, XML

```
local function DescribeApi(S, Object)
  local Url = S.instance_url..'/services/data/v52.0/objects/'..Object..'/describe/'
  trace(Url)
  local Headers={}
  Headers['Content-Type']='application/json'
  Headers.Authorization ="Bearer " .. S.access_token
  local R = net.http.get{headers=Headers, live=true, url=Url, parameters={}}
  return json.parse{data=R}
end
```

Did You Know?

It's easy to build your own API adapter

1. API Documentation

 **Developer**

DocumentationSandboxSupport

Patient

Show 15 more

API REFERENCE

Chart Alert

Default Lab

Default Pharmacy

Interface Consent

Patient Appointment


Patient Custom Fields

Patient Data Access Info

Patient Information

Release Authorization

Patient Portal Access


Create new patient record 

POST /v1/{practiceid}/patients

Add a new patient record in the system Note: This endpoint may rely on specific settings to be enabled in athenaNet Production to function properly that are not required in other environments. Please see <https://docs.athenahealth.com/api/resources/best-practices-and-troubles...> Rollout of APIs for more information if you are experiencing issues.

Was this information helpful? [Yes](#) | [No](#)

Try in Sandbox

 Try in Postman

Did You Know?

It's easy to build your own API adapter

1. API Documentation

The screenshot displays the Athenahealth Developer portal. The top navigation bar includes the Athenahealth logo, 'Developer', and links for 'Documentation', 'Sandbox', and 'Support'. The left sidebar lists various API endpoints under the heading 'Patient', with 'Show 15 more' and an 'API REFERENCE' section containing links like 'Chart Alert', 'Default Lab', and 'Patient Appointment'. The main content area is titled 'Create new patient record' and shows a 'POST' request to the endpoint '/v1/{practiceid}/patients'. It includes a note about enabling specific settings in athenaNet and a link to a rollout document. At the bottom of this section are 'Try in Sandbox' and 'Try in Postman' buttons. Overlaid on the right side of the page is a code editor showing the OpenAPI specification for the 'AthenaSource' API collection, which includes details about the API version (3.0.0), title, description, and security schemes.

API REFERENCE

- Chart Alert
- Default Lab
- Default Pharmacy
- Interface Consent
- Patient Appointment
- Patient Custom Fields
- Patient Data Access Info
- Patient Information
- Release Authorization
- Patient Portal Access

Create new patient record

POST /v1/{practiceid}/patients

Add a new patient record in the system Note: The following specific settings to be enabled in athenaNet Properties properly that are not required in other environments. <https://docs.athenahealth.com/api/resources/rollout-of-apis> Rollout of APIs for more information.

Was this information helpful? [Yes](#) | [No](#)

[Try in Sandbox](#) [Try in Postman](#)

```
local AthenaSource = [{
  {
    "openapi": "3.0.0",
    "info": {
      "description": "Welcome to the More Disruption Please (MDP) API collection",
      "title": "athena API collection",
      "version": "0.1"
    },
    "components": {
      "securitySchemes": {
        "mdp_auth_preview": {
          "type": "oauth2",
          "flows": {
            "clientCredentials": {
              "tokenUrl": "https://api.preview.platform.athenahealth.com/auth/oidc/token",
              "scopes": {
                "athena\\service\\Athenanet.MDP.*": "MDP Preview"
              }
            }
          }
        }
      }
    }
  },
  {
    "openapi": "3.0.0",
    "info": {
      "description": "Welcome to the More Disruption Please (MDP) API collection",
      "title": "athena API collection",
      "version": "0.1"
    },
    "components": {
      "securitySchemes": {
        "mdp_auth_preview": {
          "type": "oauth2",
          "flows": {
            "clientCredentials": {
              "tokenUrl": "https://api.preview.platform.athenahealth.com/auth/oidc/token",
              "scopes": {
                "athena\\service\\Athenanet.MDP.*": "MDP Preview"
              }
            }
          }
        }
      }
    }
  }
}]
```

Did You Know?

It's easy to build your own API adapter

1. API Documentation

Did You Know?

It's easy to build your own API adapter

1. API Documentation

```
1 local salesforce = require 'salesforce.api'
2 local dateparse = require 'interfaceware.dateparse'
3 local map = require 'patientMappings'
4 local isLive = true
5
6 -- Create Salesforce connection object
7 local sfAPI = salesforce()
8
9 -- Owner id
10 local ownerId = '0055f000002DQ6CAAW'
11
12 function main(Data)
13     -- (1) Parse HL7 message
14     local inMsg, Name = hl7.parse{data=Data, vmd='demo.vmd'}
15     if Name == 'ADT' then
16         -- (2) Retrive patient details
17
18
19
20
21
22
23
24
25
26
27
28
29
30
```

Did You Know?

It's easy to build your own API adapter

1. API Documentation

help.|

- example (function) Returns an example of a table that is compatible with
- get (function) Get the help data for a function.
- reset (function) Clears all custom help data, and loads the default help.
- set (function) Sets the help data used for interactive help.
- toHtml (function) Renders the given help data as HTML.

Did You Know?

It's easy to build your own API adapter

1. API Documentation
2. Authentication and Security

Did You Know?

It's easy to build your own API adapter

1. API Documentation
2. Authentication and Security

```
local function api()  
  
    local ConsumerKey      = config.load{config="salesforce_consumer_key"      , key=StoreKey}  
    local Password         = config.load{config="salesforce_password"         , key=StoreKey}  
    local ConsumerSecret   = config.load{config="salesforce_consumer_secret"   , key=StoreKey}  
    local UserName         = config.load{config="salesforce_username"         , key=StoreKey}  
  
    local C = SalesforceConnect{username=UserName, objects=SalesObjects,  
                                password=Password, consumer_key=ConsumerKey, consumer_secret=ConsumerSecret}  
  
    return C  
  
end
```

Did You Know?

It's easy to build your own API adapter

1. API Documentation
2. Authentication and Security

Retrieve token over HTTP

```
local function GetAccessTokenViaHTTP(CacheKey,T)
    local Url = 'https://login.salesforce.com/services/oauth2/token'
    local Auth = {grant_type = 'password',
        client_id = T.consumer_key,
        client_secret = T.consumer_secret,
        username = T.username,
        password = T.password}
    local J = net.http.post{url=Url,
        parameters = Auth,
        live=true}
    PutCache(CacheKey, J)
    local AccessInfo = json.parse(J)
    return AccessInfo
end
```

Did You Know?

It's easy to build your own API adapter

1. API Documentation
2. Authentication and Security

Retrieve token over HTTP

Cache token

```
local function PutCache(Key, Value)
    Store:put(Key, Value)
    Store:put(Key.."T", os.ts.time())
end
```

Did You Know?

It's easy to build your own API adapter

1. API Documentation
2. Authentication and Security

Retrieve token over HTTP

Cache token

Retrieve token

```
local function GetCache(Key, CacheTimeout)
    if (CacheTimeout == 0) then
        return nil
    end
    local CacheTime = Store:get(Key.."T")
    if (os.ts.difftime(os.ts.time(), CacheTime) < CacheTimeout) then
        local CachedData = Store:get(Key)
        local R = json.parse{data=CachedData}
        return R
    end
    return nil
end
```

Did You Know?

It's easy to build your own API adapter

1. API Documentation
2. Authentication and Security

Store module

Did You Know?

It's easy to build your own API adapter

1. API Documentation
2. Authentication and Security

Store module

Encrypted password module

Did You Know?

It's easy to build your own API adapter

1. API Documentation
2. Authentication and Security

Store module

Encrypted password module

Crypto API

Did You Know?

It's easy to build your own API adapter

1. API Documentation
2. Authentication and Security
3. Testing and Performance

Did You Know?

It's easy to build your own API adapter

1. API Documentation
2. Authentication and Security
3. Testing and Performance

```
local function handleErrors(Response, Err, Header, Extras)
    iguana.logInfo(Response)
    if Err ~= 200 then -- For all responses other thsn 200 OK
        if Err == 401 then --Failed Authorization
            trace(token)
            local tempToken = GetAccessTokenViaHTTP('access_token',
                password=Config.load{config='athena_secret', ke
            trace(tempToken)
            Extras.P.header.Authorization = "Bearer " .. tempToken
            Response, E, Header = api[Extras.typeof](Extras.api, Ext
            if E ~= 200 then
                error('Failed to Authorize', 6)
            else
                return json.parse{data=Response}
            end
        end
        if Err == 404 then --incorrect/missing parameters
            trace(Response)
            return json.parse{data=Response}
        end
        if Err == 400 or Err == 403 then --Error in response
            local ResponseError = ''
            local Response = json.parse{data=Response}
            ResponseError = ResponseError .. Response.error .. '\n'
            for K, V in pairs(Response) do
                if(K ~= 'error') then
```

Did You Know?

It's easy to build your own API adapter

1. API Documentation
2. Authentication and Security
3. Testing and Performance

Did You Know?

It's easy to build your own API adapter

1. API Documentation
2. Authentication and Security
3. Testing and Performance

```
-- Create Salesforce connection object
local sfAPI = salesforce()

-- Owner id
local ownerId = '0055f0000000EL1KAAW'

function main(Data)
    -- (1) Parse HL7 message
```

Did You Know?

It's easy to build your own API adapter

1. API Documentation
2. Authentication and Security
3. Testing and Performance

```
-- Create Salesforce connection object
local sfAPI = salesforce()

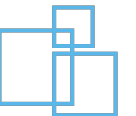
-- Owner id
local ownerId = '0055f0000000EL1KAAW'

function main(Data)
    -- (1) Parse HL7 message

local SalesObjects= "user,account,HealthCloudGA__EhrEncounter__c"
```

Pre-built API Adapter Benefits

- ✓ Streamlined System Integration
- ✓ Improved Scalability



04.

Cloud Service Integrations



Did You Know?

Cloud provisioning services can accelerate Iguana instance deployment



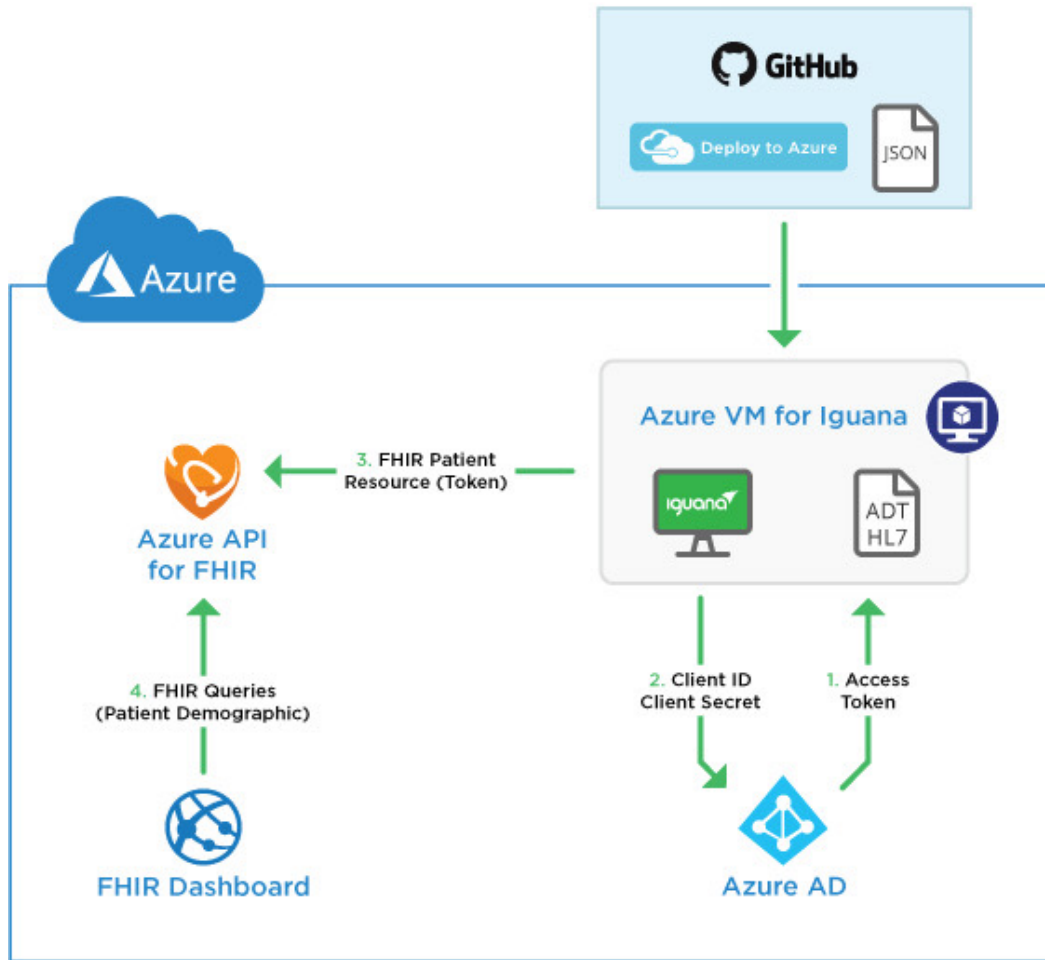
Poll #3

**Are you currently using any cloud services
with Iguana?**



Did You Know?

Cloud provisioning services can accelerate Iguana instance deployment



Custom deployment
Deploy from a custom template

TEMPLATE

Customized template
6 resources

Edit template Edit paramet... Learn more

BASICS

* Subscription iFW-CSTeam-Demo-Pay

* Resource group Select a resource group
[Create new](#)

* Location (US) West US

SETTINGS

* Vm Name

* Admin Username

* Admin Password

Vm Size Basic_A2

Image Publisher MicrosoftWindowsServer

Image Offer WindowsServer

Image Sku 2016-Datacenter

* Aad Client Id ① qRwE2DPA47piRu1O44RgKwlpLurxOXf2yIkw1cz ✓

* Aad Client Secret ① Rw8HDNcUtrA1MLOQX2ztyPMTUAXt4RsogFn3HgjN ✓

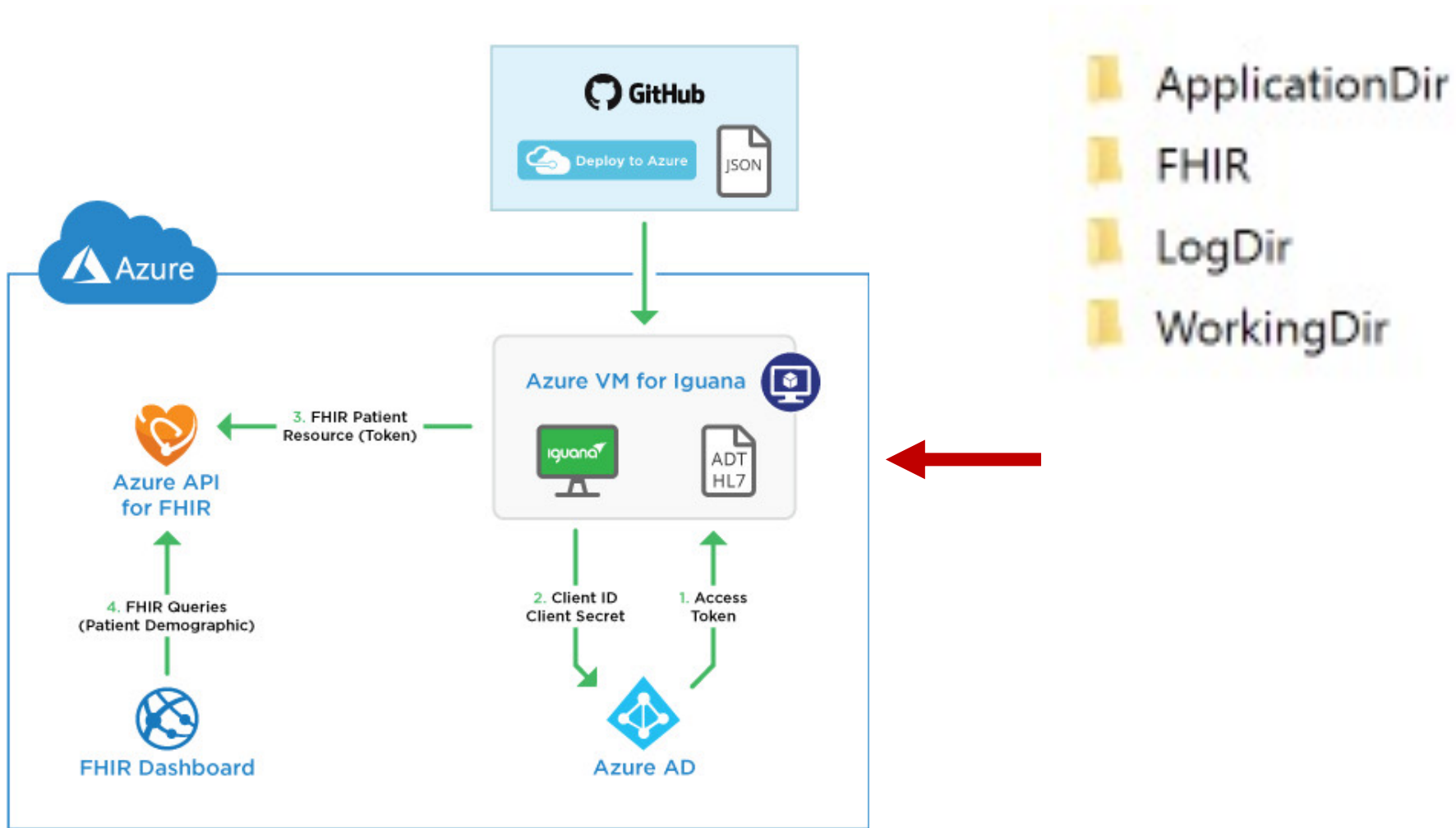
* Aad Authority ① https://login.microsoftonline.com/iFWsample.onmicrosoft.com ✓

* Aad Audience ① https://myFhirServer.azurehealthcareapis.com ✓

* Fhir Server Url ① https://myFhirServer.azurehealthcareapis.com ✓

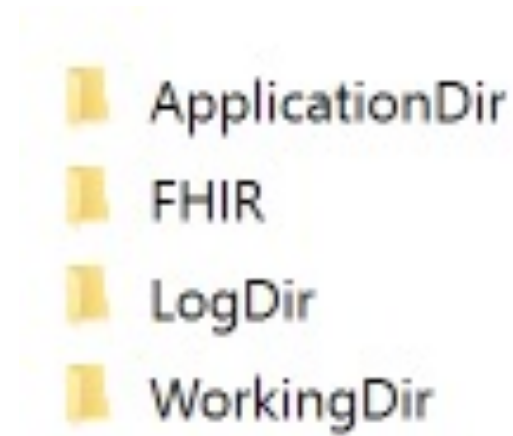
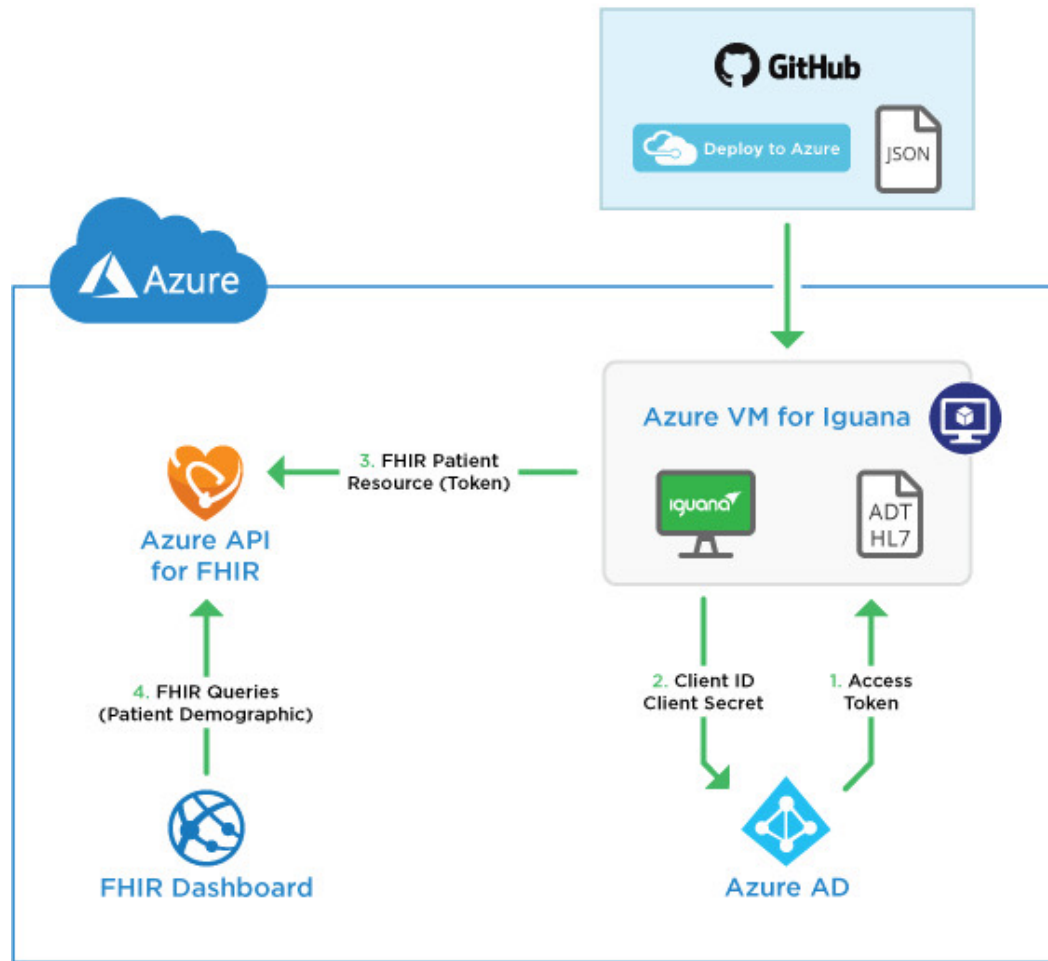
Did You Know?

Cloud provisioning services can accelerate Iguana instance deployment



Did You Know?

Cloud provisioning services can accelerate Iguana instance deployment



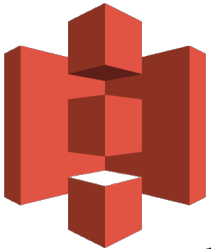
<input type="checkbox"/>	START/STOP		TYPE	CHANNEL NAME ▲	LAST ACTIVITY	ERRORS	QUEUED
<input type="checkbox"/>	START	<input type="checkbox"/>	TRANS ⇒ LLP	CHN 1: Random HL7 ADT Message	2019/06/22 16:45	==	0
<input type="checkbox"/>	START	<input type="checkbox"/>	FILE ⇒ QUE	CHN1: HL7 From File	==	==	--
<input type="checkbox"/>	STOP	<input checked="" type="checkbox"/>	LLP ⇒ QUE	CHN2: Random HL7 ADT Receiver	2019/06/22 16:45	==	--
<input type="checkbox"/>	STOP	<input checked="" type="checkbox"/>	QUE ⇒ QUE	CHN3: ADT To FHIR Mapper	2019/06/22 16:45	==	0
<input type="checkbox"/>	STOP	<input checked="" type="checkbox"/>	QUE ⇒ TRANS	CHN4: FHIR Message to Server	2019/06/22 16:45	==	0
<input type="checkbox"/>	START	<input type="checkbox"/>	TRANS ⇒ QUE	CHN5: Clear FHIR Server	==	==	--

Did You Know?

Iguana can integrate with many cloud services

Did You Know?

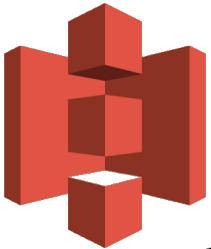
Iguana can integrate with many cloud services



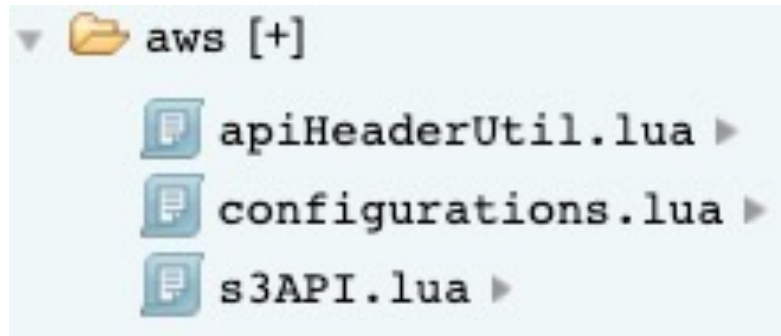
Amazon S3

Did You Know?

Iguana can integrate with many cloud services



Amazon S3



s3API|

```
🔍 readFile (function) This function loads a file from the configured AWS S3 bucket.  
🔍 uploadFile (function) This function uploads a file to the configured AWS S3 bucket.
```

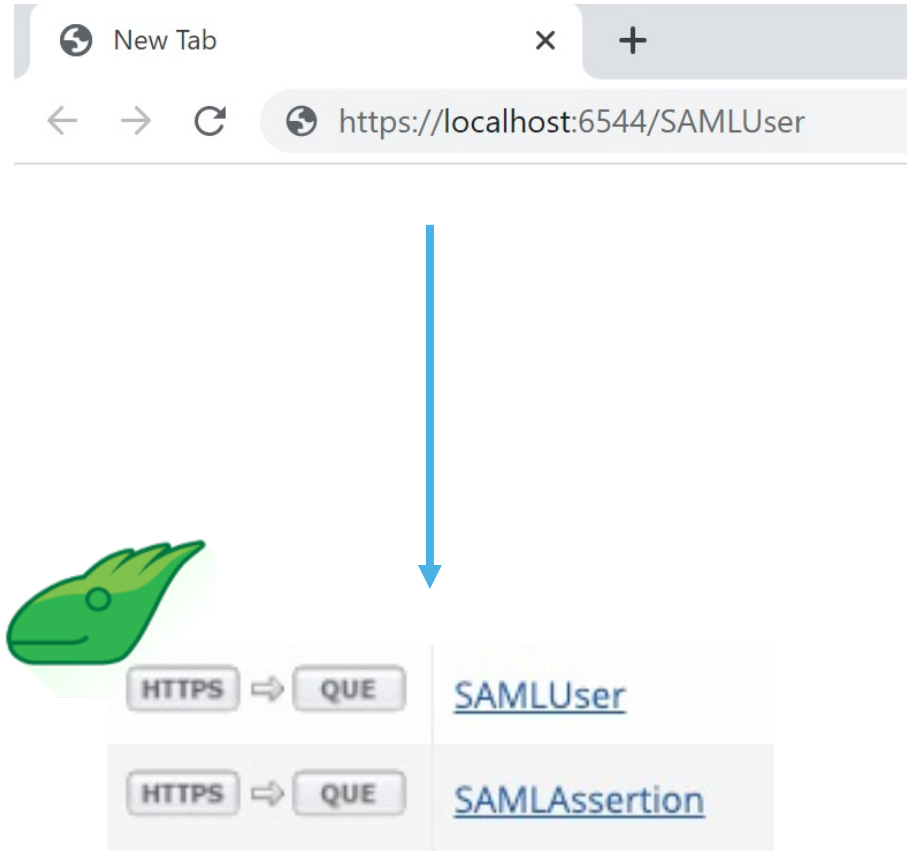
Did You Know?

Iguana can integrate with many cloud services



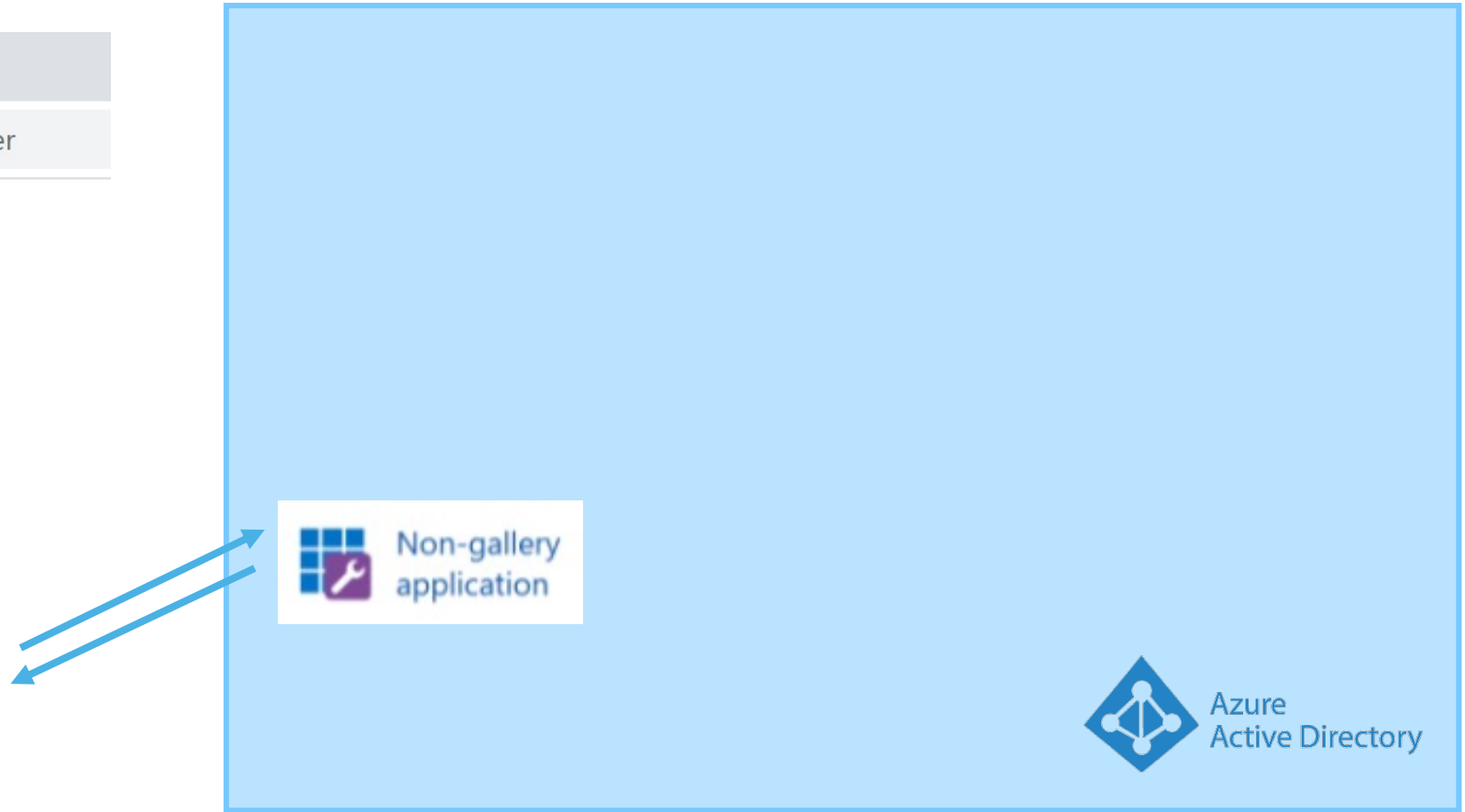
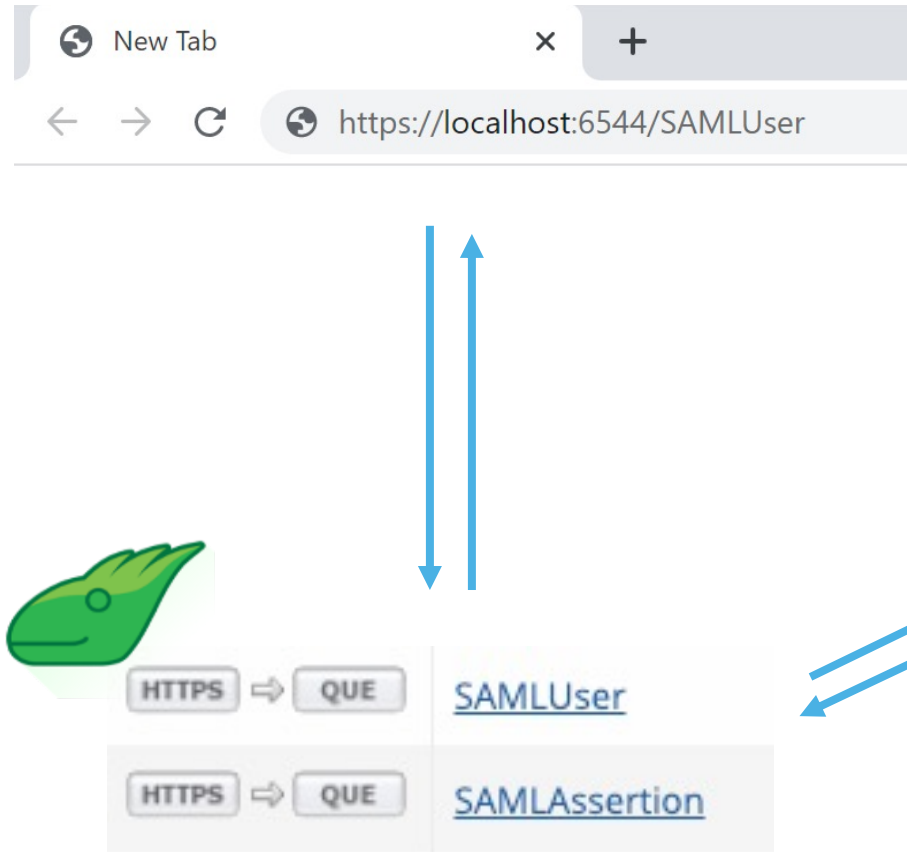
Did You Know?

Iguana can integrate with many cloud services



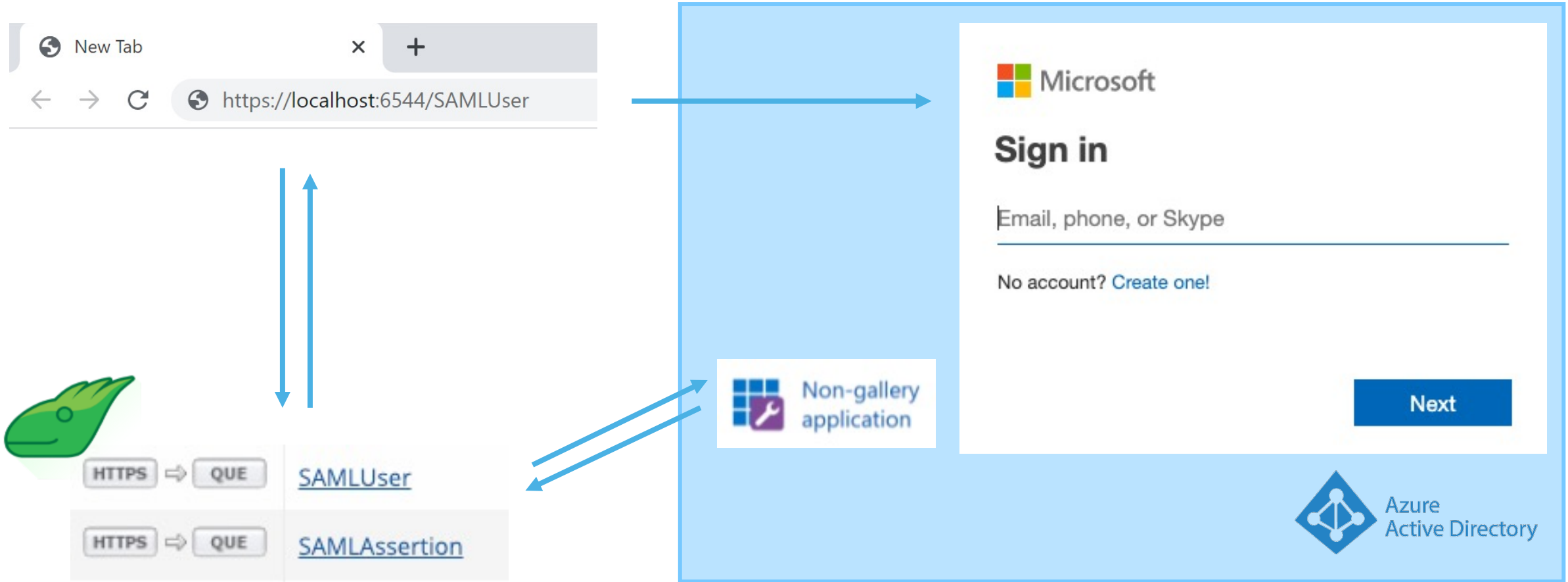
Did You Know?

Iguana can integrate with many cloud services



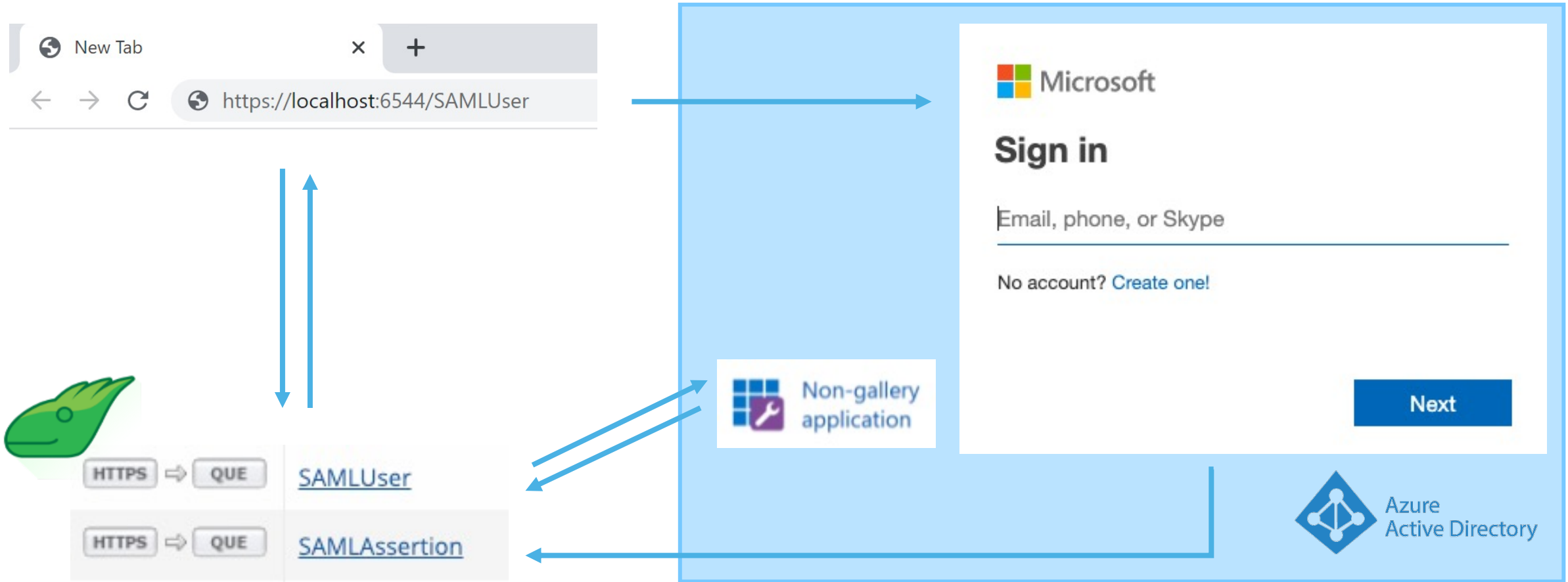
Did You Know?

Iguana can integrate with many cloud services



Did You Know?

Iguana can integrate with many cloud services

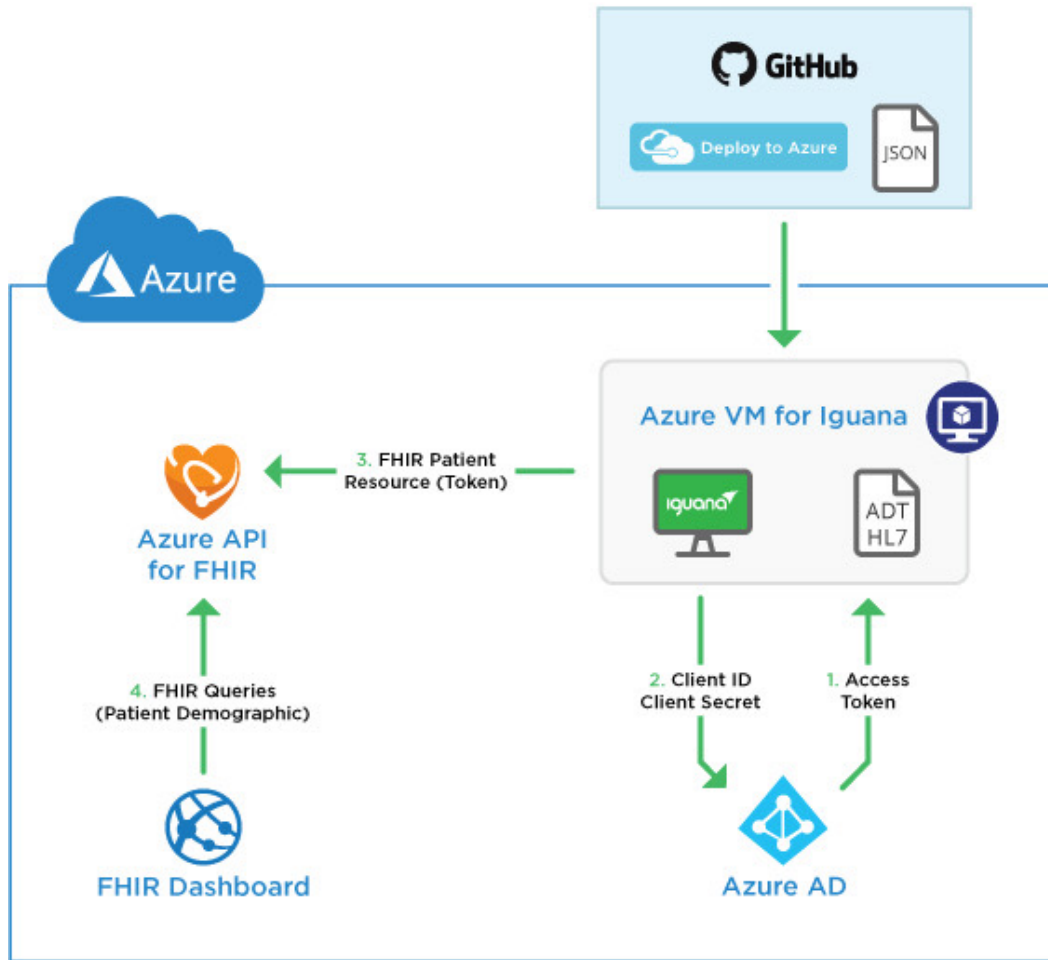


Did You Know?

Iguana can integrate with many cloud services

Did You Know?

Iguana can integrate with many cloud services



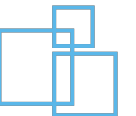
Cloud Service Pre-built Template Benefits



Streamlined System Integration



Improved Scalability

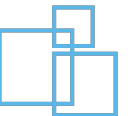


Conclusion





Thank You!



INTERFACEWARE