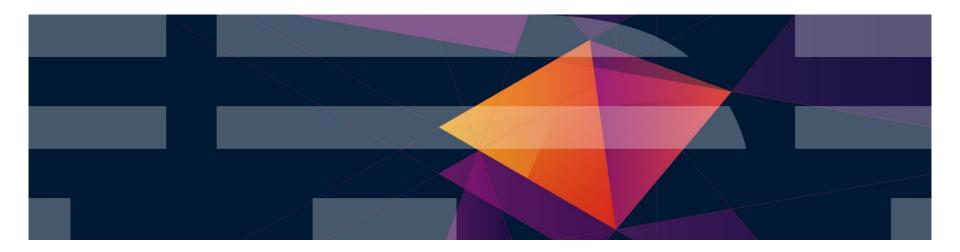


# Simplify your Mobile App Development -Build new IMS Mobile apps with RESTful APIs

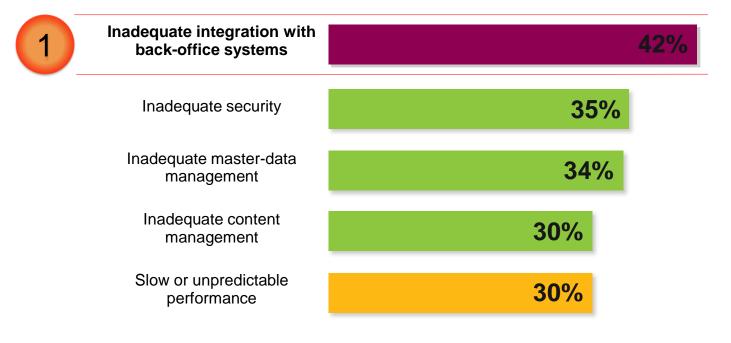
Teodoro (Ted) Cipresso, IMS Connectivity Developer





# **System of Record Integration**

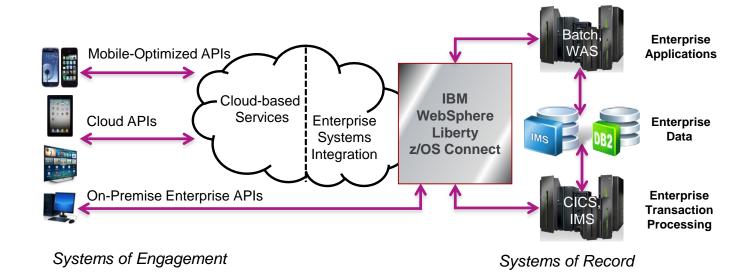
The most significant technical barrier to creating effective customer-facing systems



**91% of CIOs** said new customer client-facing apps will access the mainframe

# **Consistent connectivity for z Mobile and Cloud**

- IBM WebSphere Liberty z/OS Connect Shipped with WAS, CICS, and IMS
- Unifies z/OS connectors a common solution for mobile, cloud, and web
- Simplified integration Hide complexity of connecting to z/OS using REST

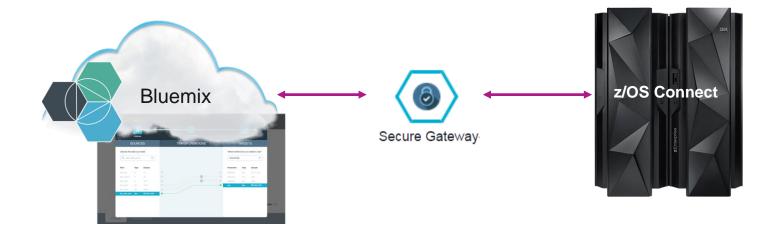






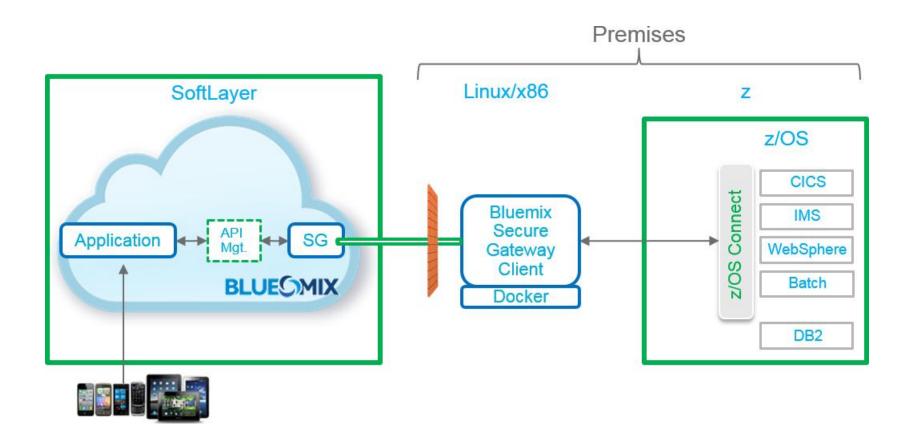
### **Secure Connectivity to Systems of Record**

- Combine mobile and cloud for best of both mobile applications in the cloud linked to the enterprise is your competitive advantage
- Fast time to market of cloud based applications combined with the trusted transactions of traditional mainframe systems
- Securely connect leverage data from your existing enterprise systems





#### **Bluemix APIm and Secure Gateway Services**



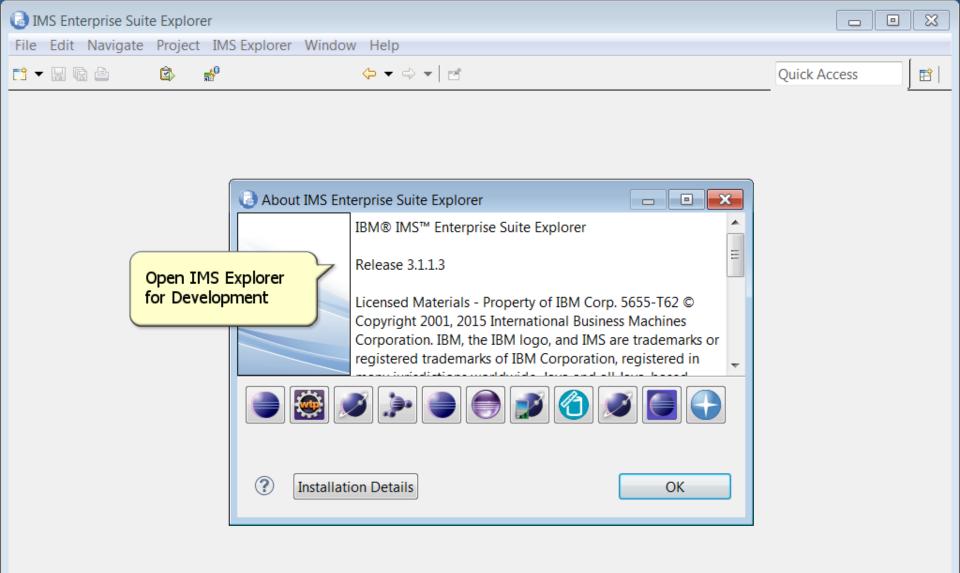


#### Mobile App SOR Asset Integration Demo

- The remainder of this presentation contains an offline demonstration.
- The demonstration illustrates how to use the following technologies to build a Mobile app that integrates z/OS assets as managed APIs in Bluemix:
  - IMS Explorer for Development
  - Swagger
  - z/OS Connect
  - Bluemix
  - Secure Gateway
  - API management



## Create z/OS Connect RESTful Services from IMS Transactions



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*Transaction cod	le: HEALTH				Browse
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OUTPUT getMedications output					
OUTPUT		getMedications output			
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#### 👌 Edit an IMS Mobile Transaction Service

#### Edit an IMS Mobile Transaction Service

Specify the fields to include in the input and output messages to define the IMS mobile transaction interface.

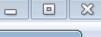
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🖾 CA_ZZ			flow	ed to IMS.	ORT	Ξ
🖾 CA_TRANCODE		HEALTH			AR	
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CA_LIST_MEDICATION_REQUE	*			482	STRUCT	
CA_NUM_MEDICATIONS	~			2	DECIMAL	
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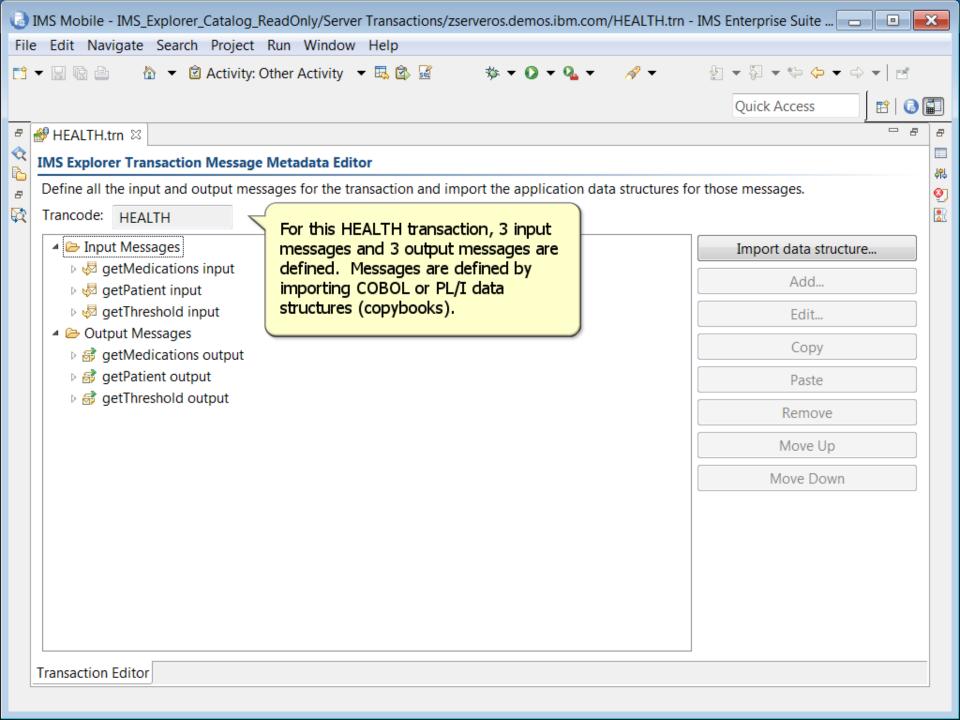
Cancel



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9	IMS Mobile - IMS Enter	prise Suite Explorer		
Filr 🔶	Edit an IMS Mobile	Transaction Service		
	Edit an IMS Mobil	e Transaction Service		
à	Specify the informat	ion to edit an IMS transaction service of	n a mobile server.	
	Business Description:	Get current prescribed medications	Documentation of the service is encouraged for later service discovery.	
4				-
	Modified by:	dds3716		
	Last modified:	2015-02-20 15:17:50.513		
	Version:	0		
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HEALTH An IMS transaction resource defines	
IVTNO the input and output messages for	
IVTNO02 an IMS transaction.	
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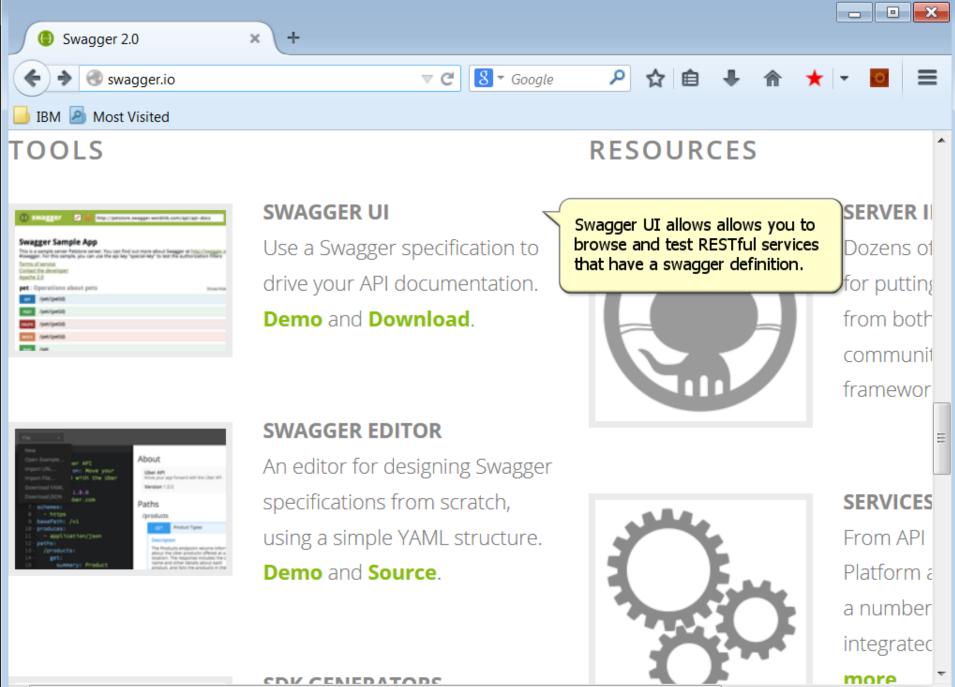


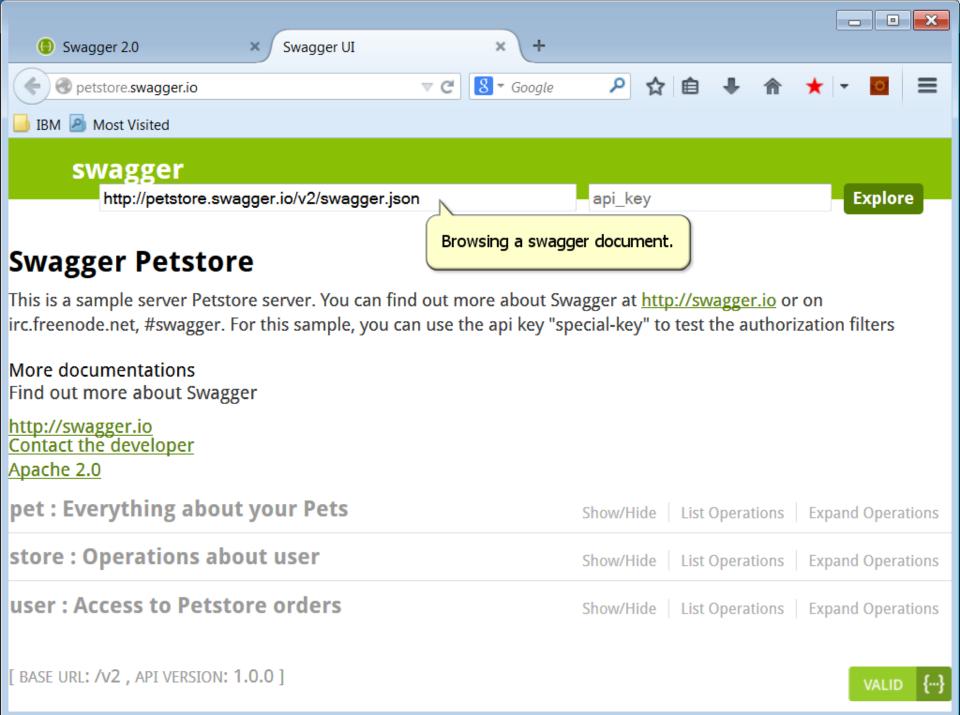
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Define all the input and output messages for the transaction and import the application data structures for those messages.						
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▲ 🖶 Segment 1	Edit					
A 🗁 Data Structures	Сору					
The editor allows you to browse	Сору					
the imported data structure	Paste					
CA_ZZ fields, rename them, and/or add comments to them.	Remove					
CA_REQUEST_ID	Move Up					
	Move Down					
CA_PATIENT_ID  CA_LIST_MEDICATION_REQUEST						
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CA_MEDICATION_ID						
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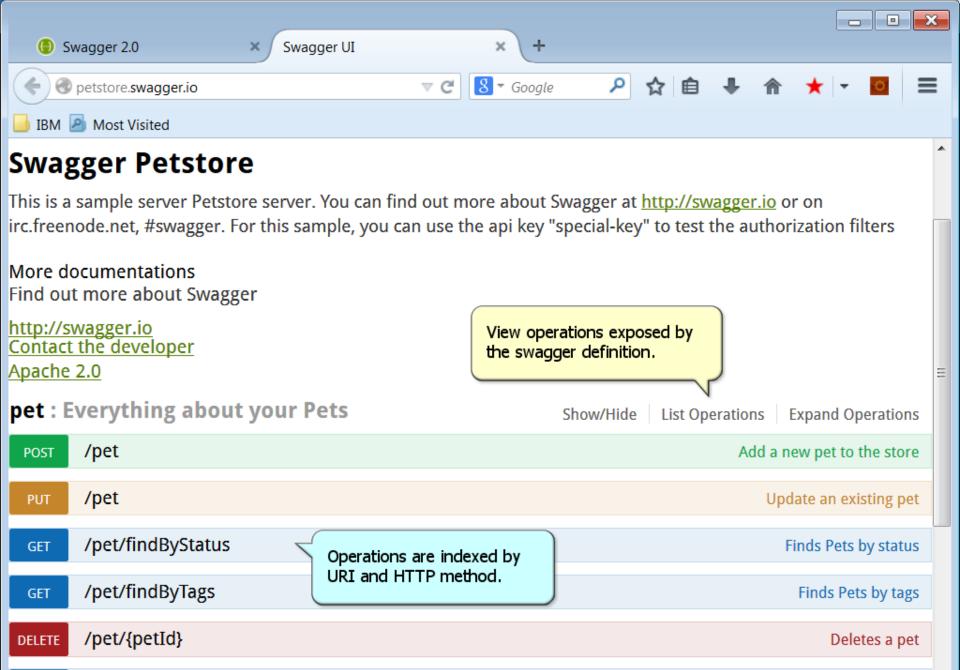


### Author and Test Swagger to Describe z/OS Connect Services as APIs





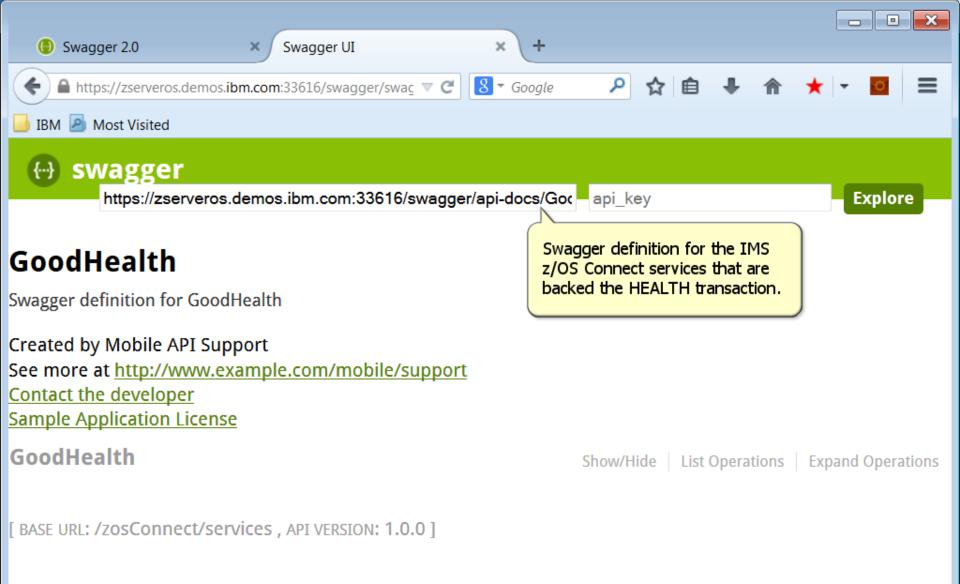


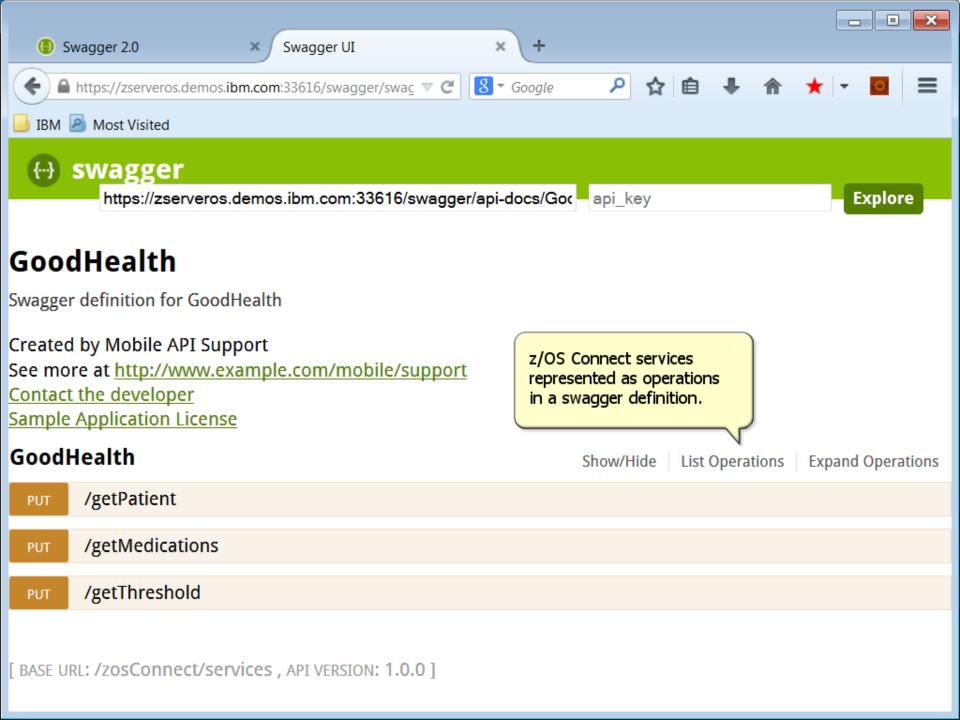


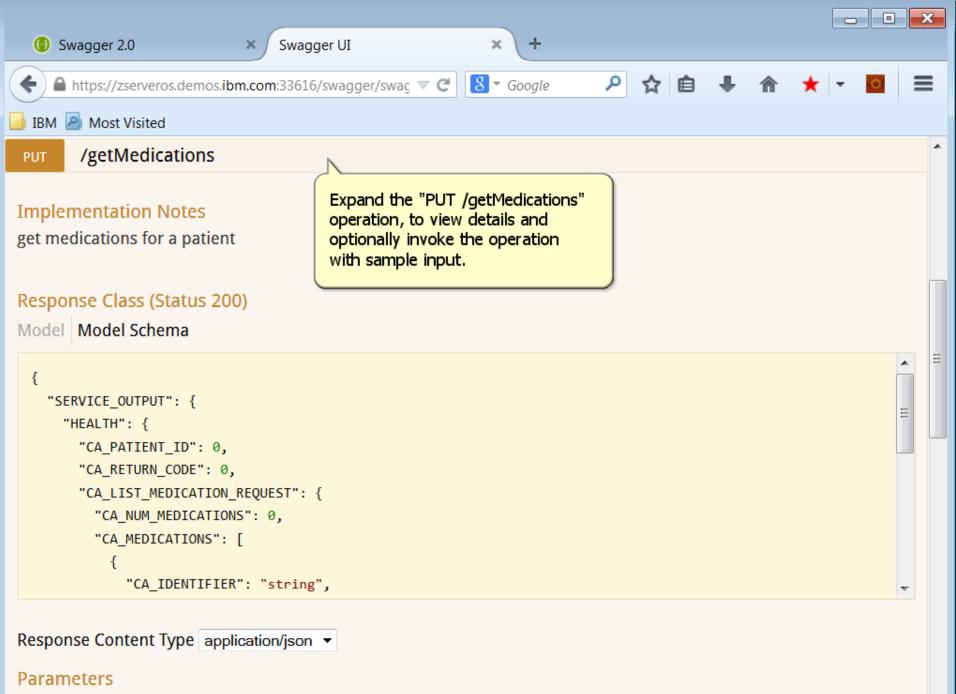
Find pet by ID

/pet/{petId}

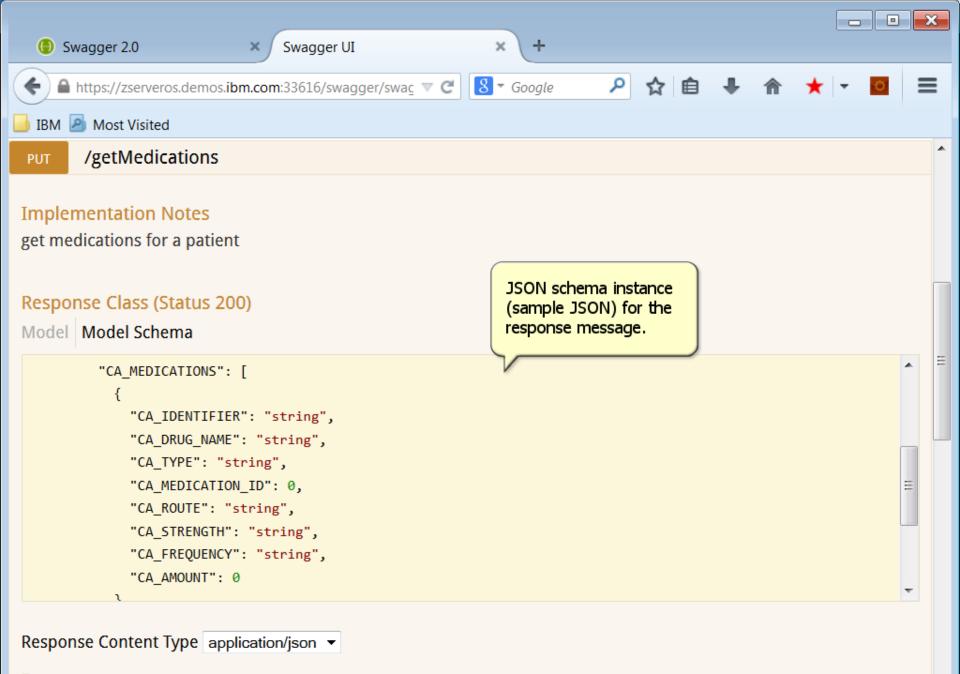
GET



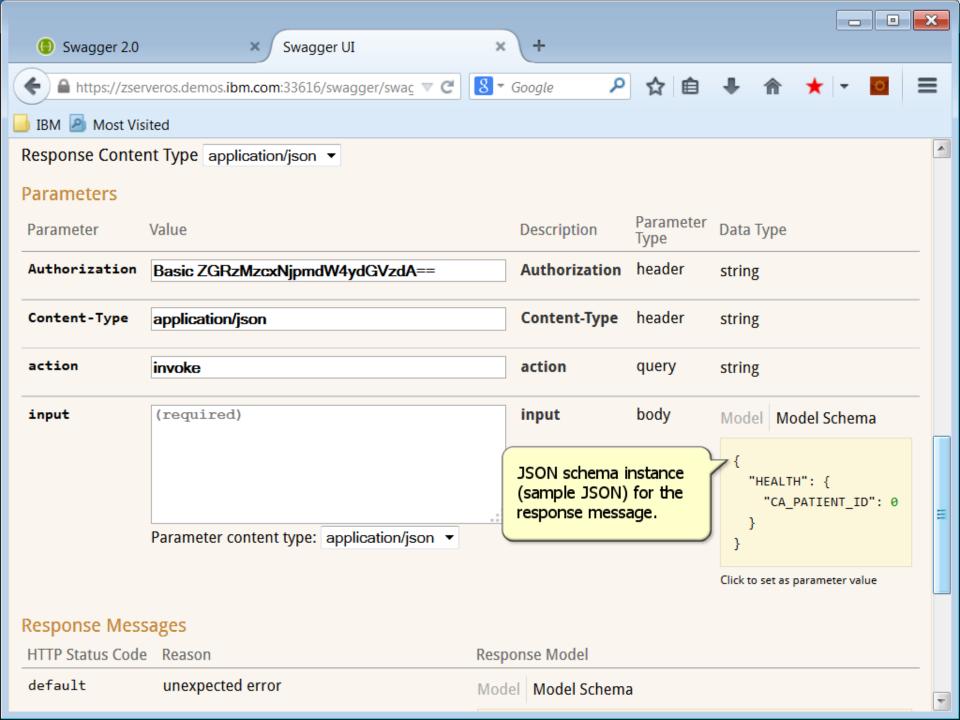




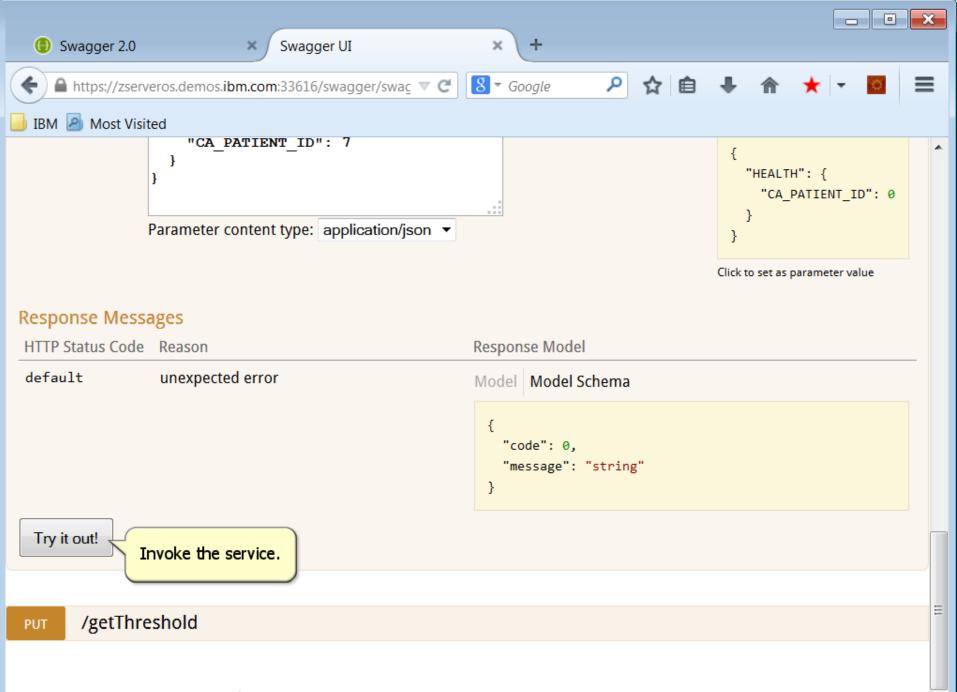
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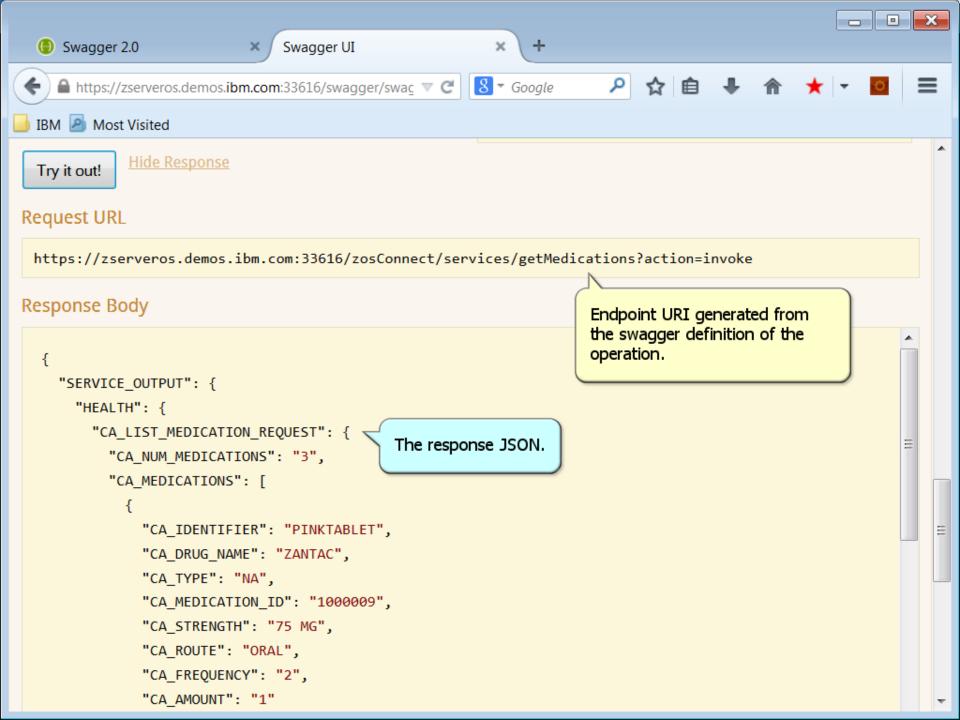


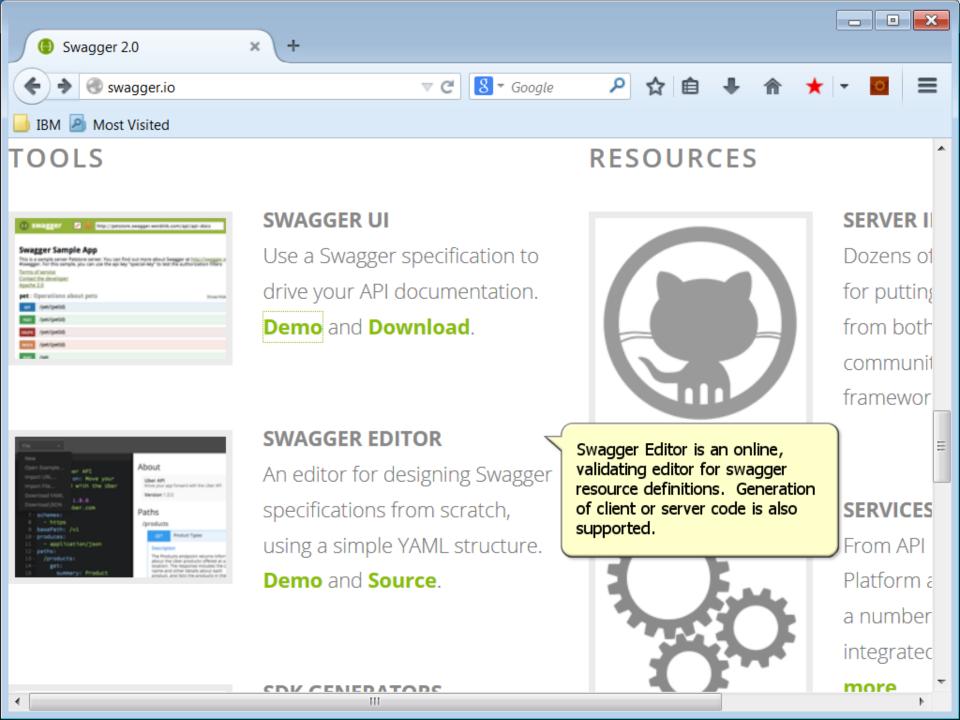
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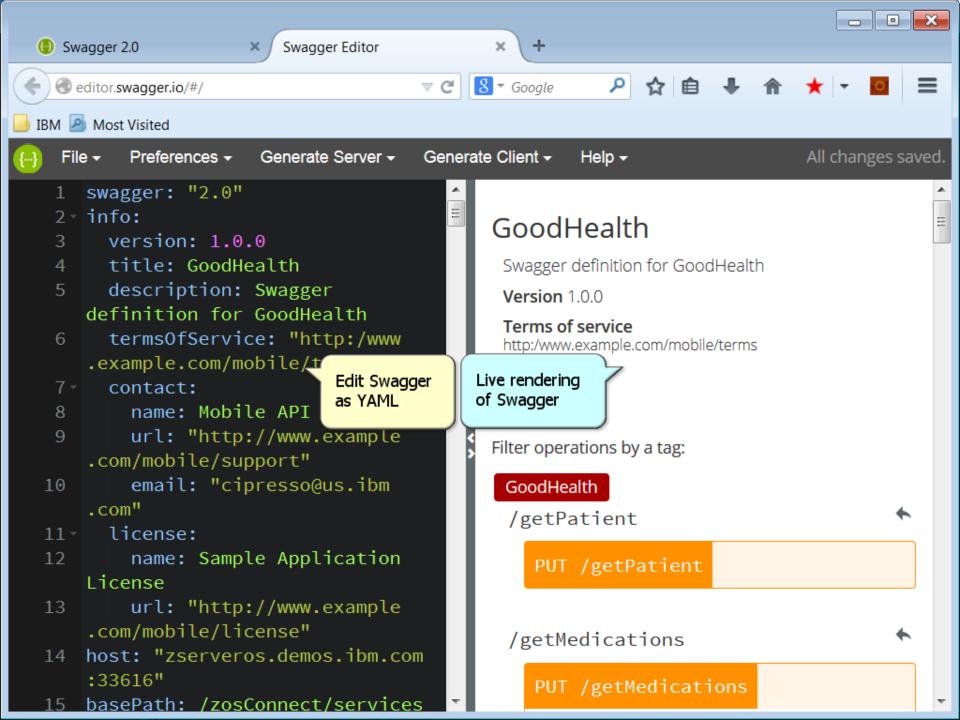


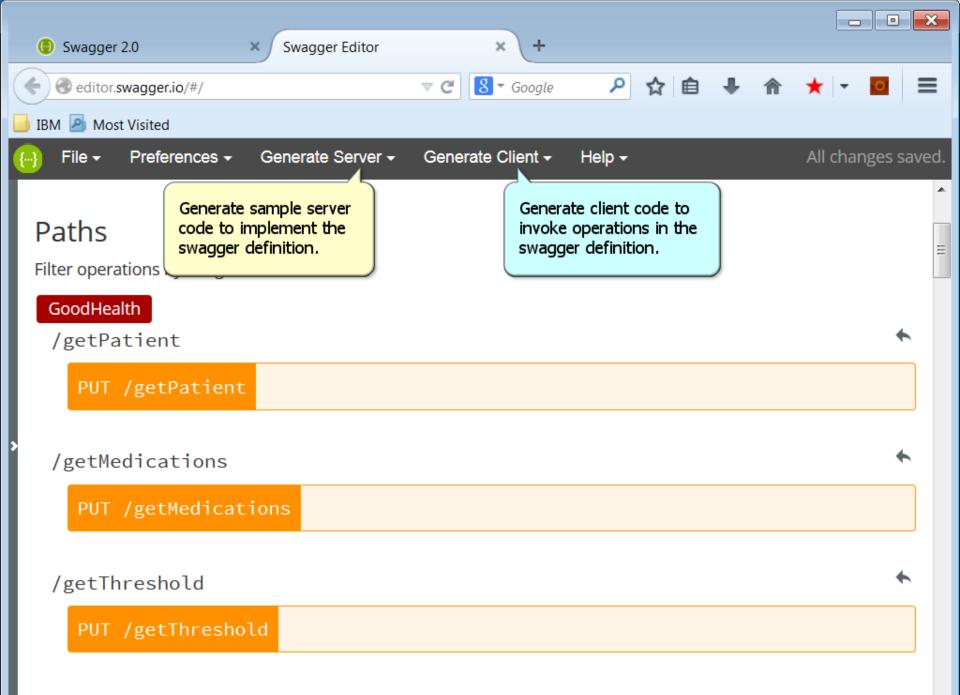
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Response Conter	nt Type application/json 💌				^		
Parameters							
Parameter	Value	Description	Parameter Type	Data Type			
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Content-Type	application/json	Content-Type	header	string			
action	invoke	action	query	string			
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	"CA_PATIENT_ID": 7			{			
	} Parameter content type: application/json ▼	Edit the sample JSON before invoking the operation.		"HEALTH": {     "CA_PATIENT_ID": 0     } } Click to set as parameter value			
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219 -	getMedicationsInput: -	"PUT /getMedications"			<b>^</b>
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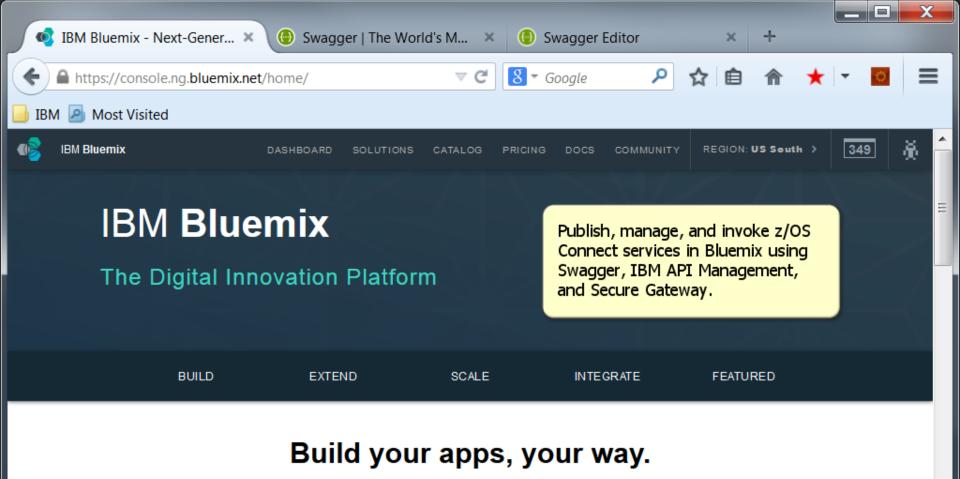
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264 -	CA_NUM_MEDICATIONS:				
265	minimum: O				
266	maximum: 99				
267	type: integer				
268 -	CA_MEDICATIONS:				
269	type: array				
270 -	items:				
271	<pre>\$ref: "#/definitions/getMedicationsOutput3"</pre>				
272 -	getMedicationsOutput3:				
273 -	required:				
274	- CA_DRUG_NAME				
275	- CA_STRENGTH				
276	- CA_AMOUNT				
277 -	properties:				
278 -	CA_IDENTIFIER:				
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280	type: string				
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275	- CA_STRENGTH			(continued).	a
276	- CA_AMOUNT			(	_
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278 -	CA_IDENTIFIER:				
279	maxLength: 20				
280	type: string				
281 -	CA_DRUG_NAME:				
282	maxLength: 50				<
283 284 -	type: string				
284	CA_TYPE: maxLength: 2				
285	type: string				
280	CA_MEDICATION_ID:				=
288	minimum: 0				
289	maximum: 99999999999				
290	type: integer				
291 -	CA_ROUTE:				
292	maxLength: 20				
293	type: string				-



# Configure Secure Gateway to Integrate On-premise z/OS Connect Services



### Use a combination of the most prominent open-source compute

technologies to power your apps. Then, let Bluemix handle the rest.

#### Instant Runtimes

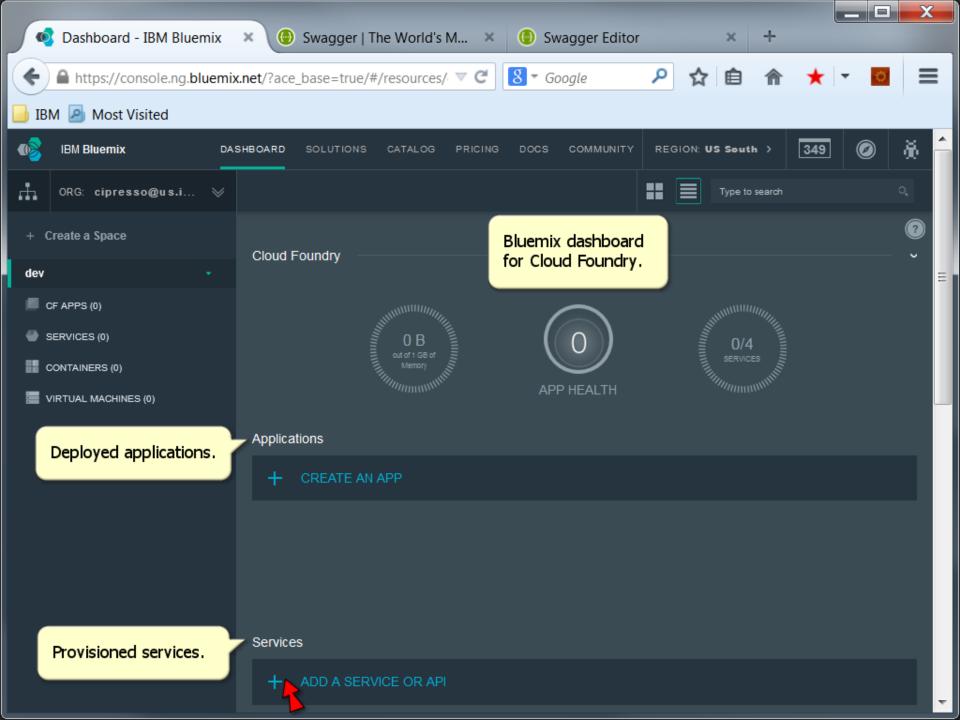
App-centric runtime environments based on Cloud Foundry.

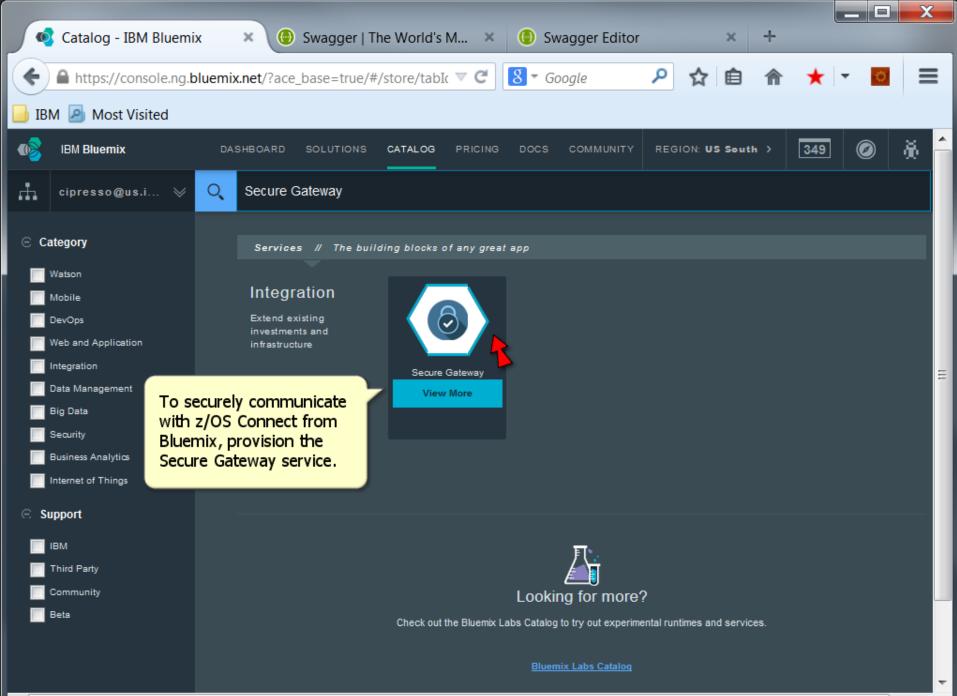
#### IBM Containers

Portable and consistent delivery of your app without having to manage an OS.

#### Virtual Machines

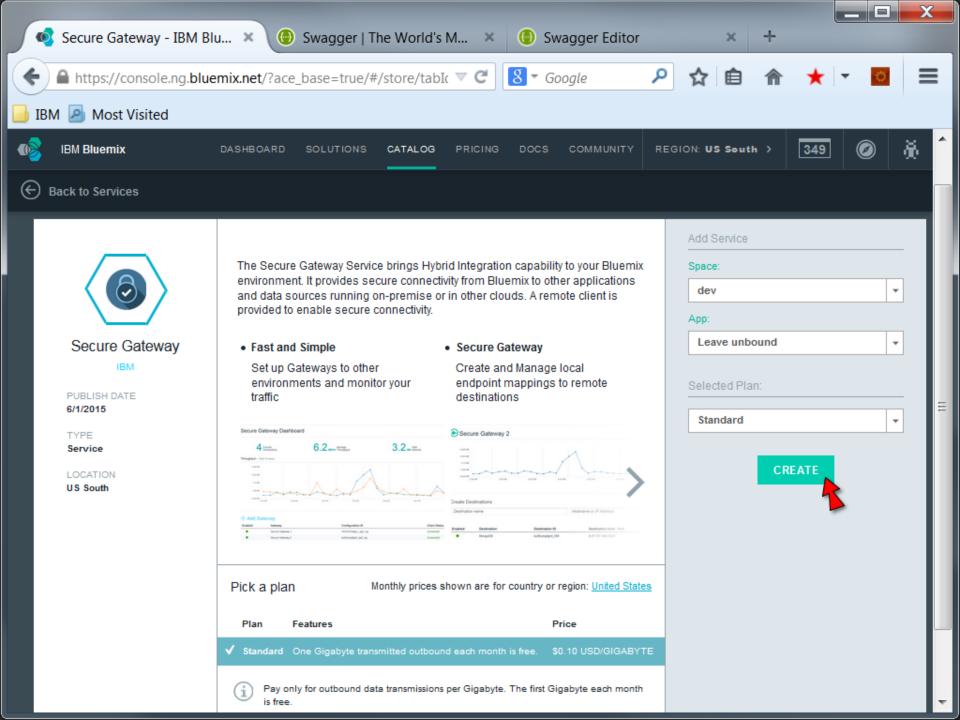
Get the most flexibility and control over your environment with VMs.

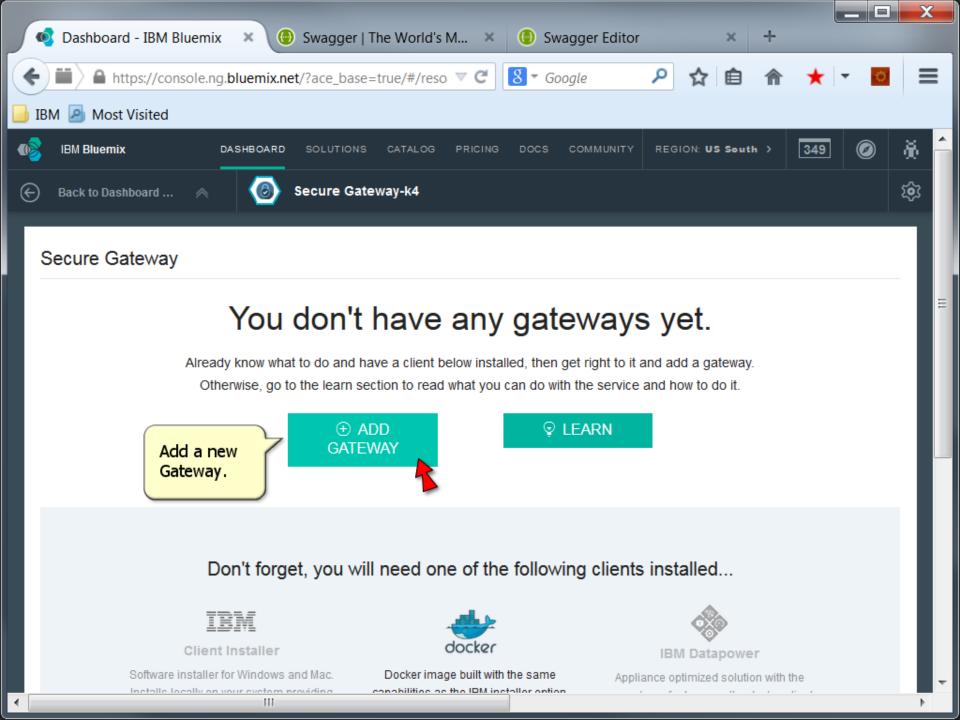


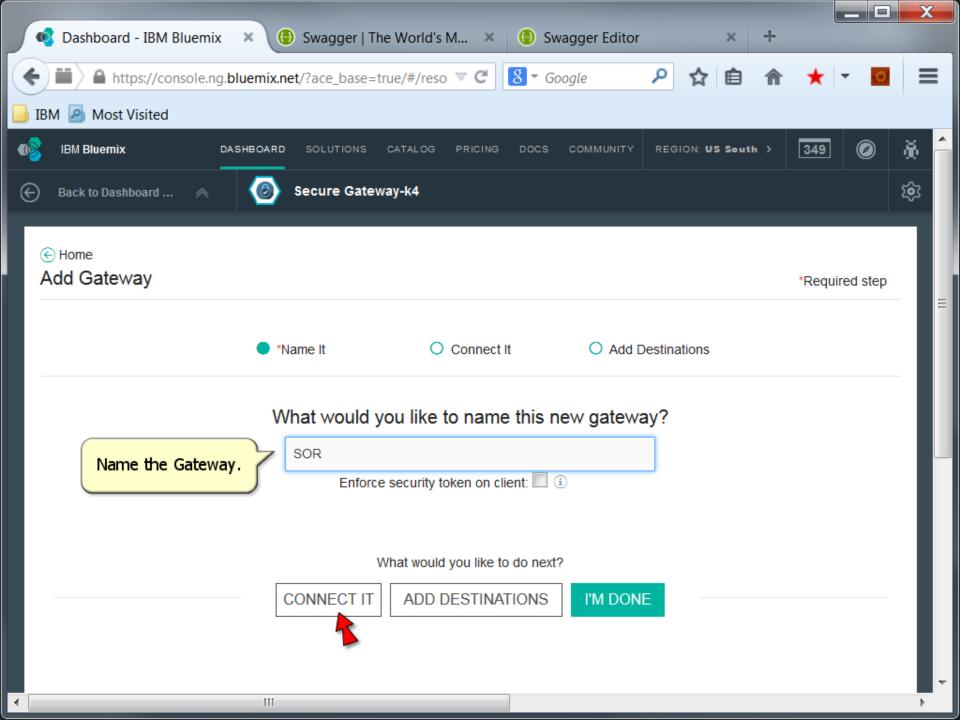


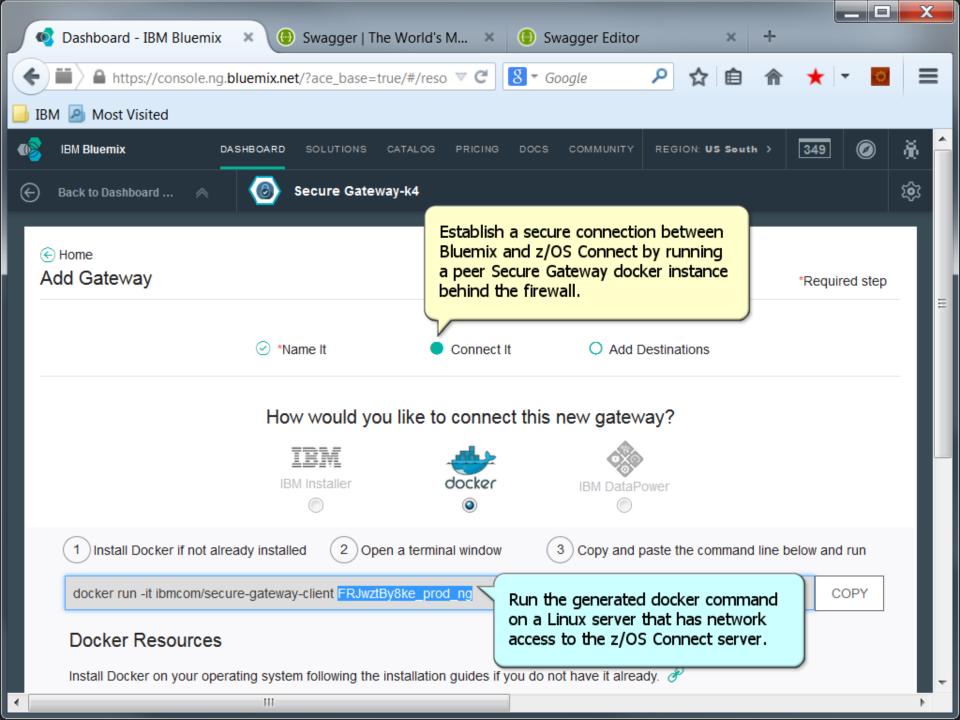
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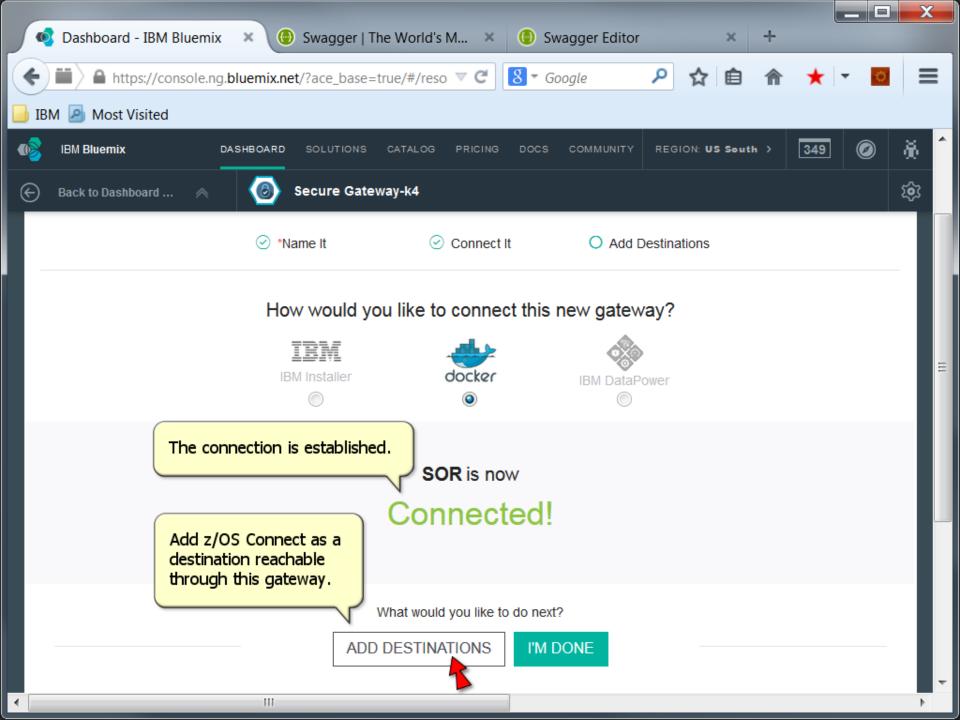


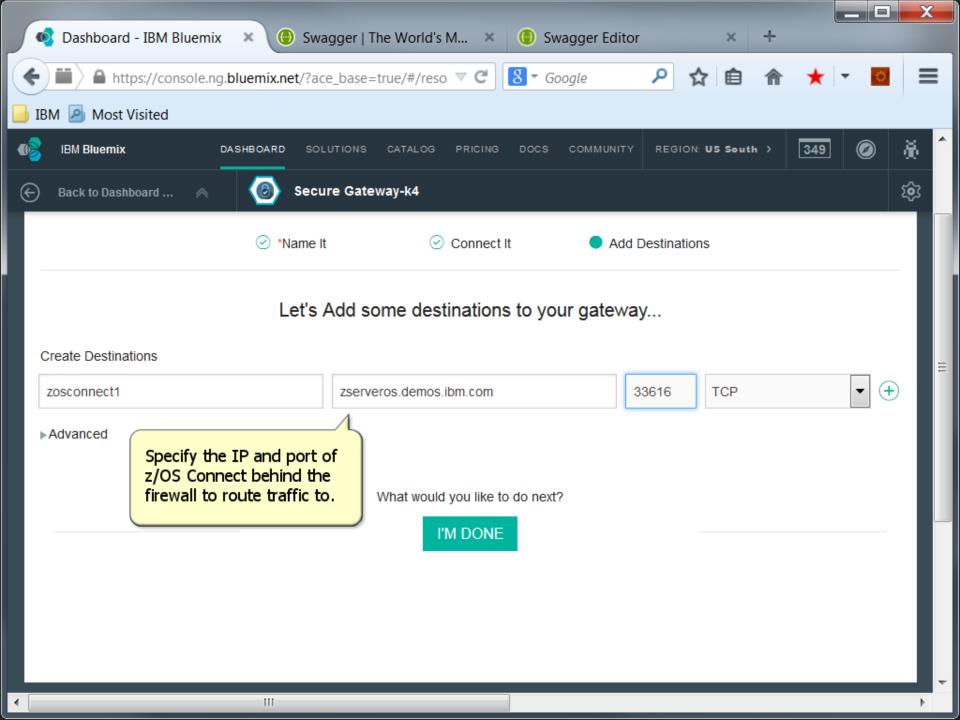


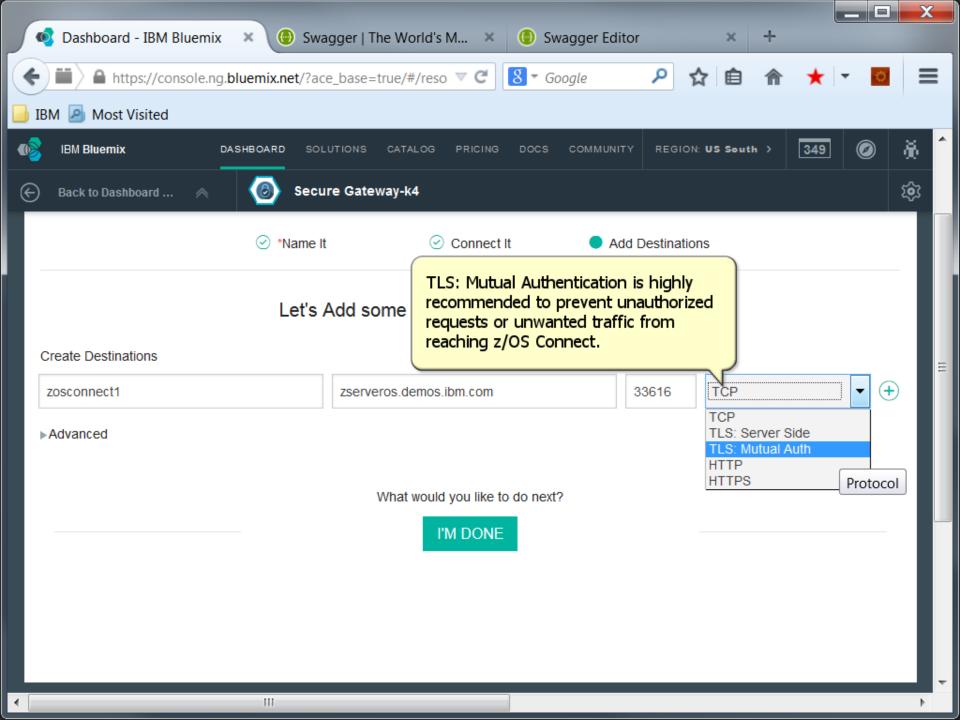


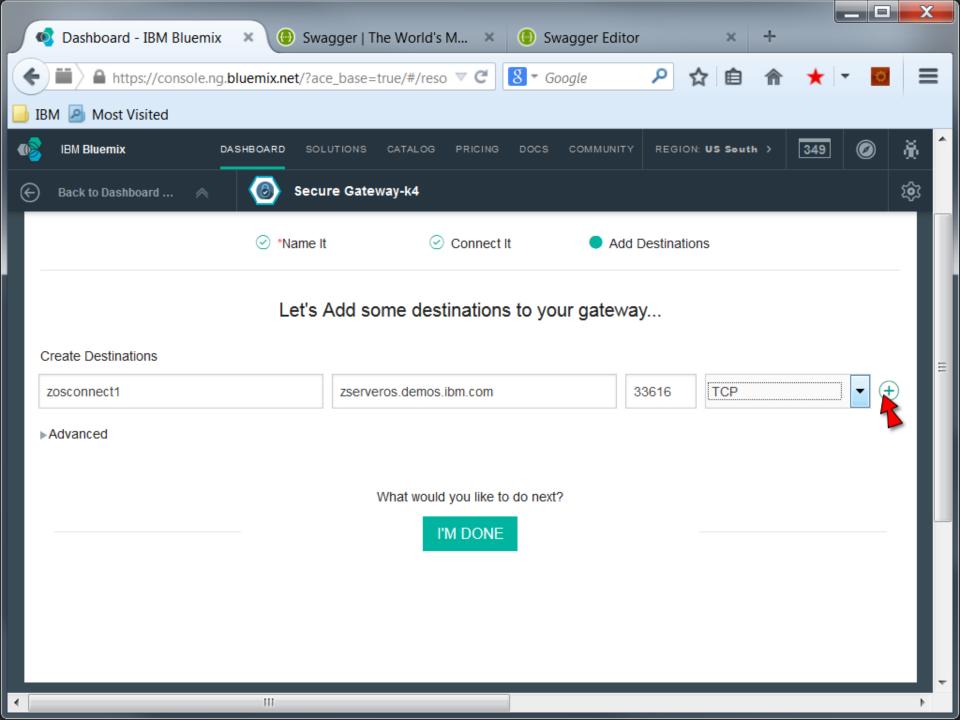


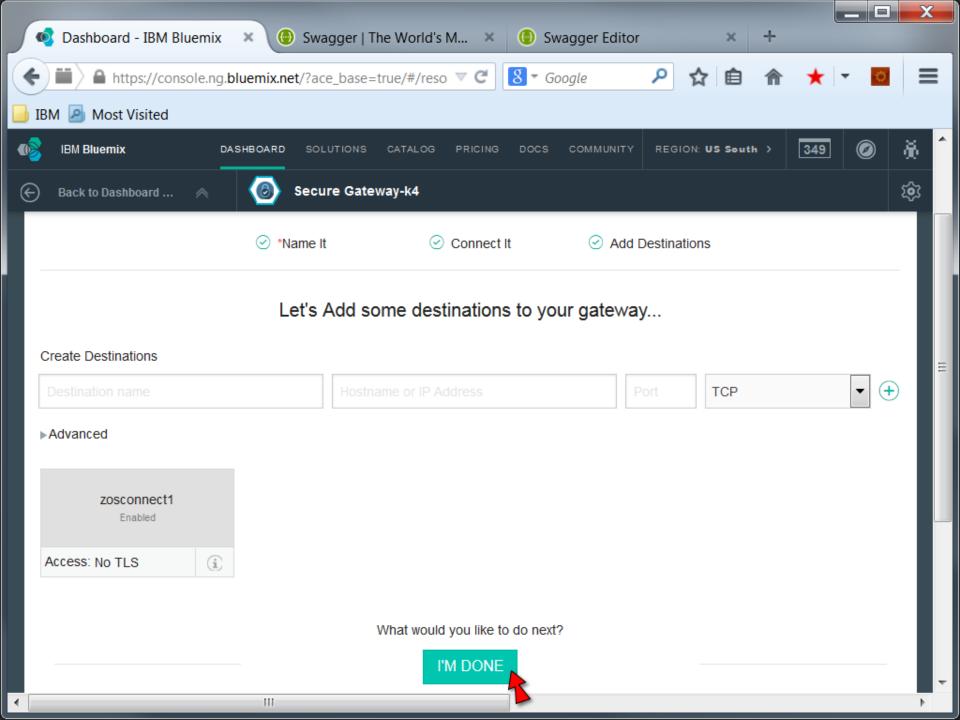
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<pre>root@ubuntu:~# cat generic.sh docker rm -f \$1 &gt; /dev/null 2&gt;&amp;1 docker run -dname \$1 -it ibmcom/secure-gateway-client \$ root@ubuntu:~# ./generic.sh FRJwztBy8ke_prod_ng 75c32a230596b843daced83e94a40b3008ba2b8a3b9560b5a11cccc4c0</pre>	1 c53b8e
root@ubuntu:~# docker ps CONTAINER ID IMAGE CREATED STATUS PORTS NAMES	COMMAND
75c32a230596 ibmcom/secure-gateway-client:latest cgwclient 11 seconds ago Up 10 seconds FRJwztBy8ke_prod_ng	node lib/se
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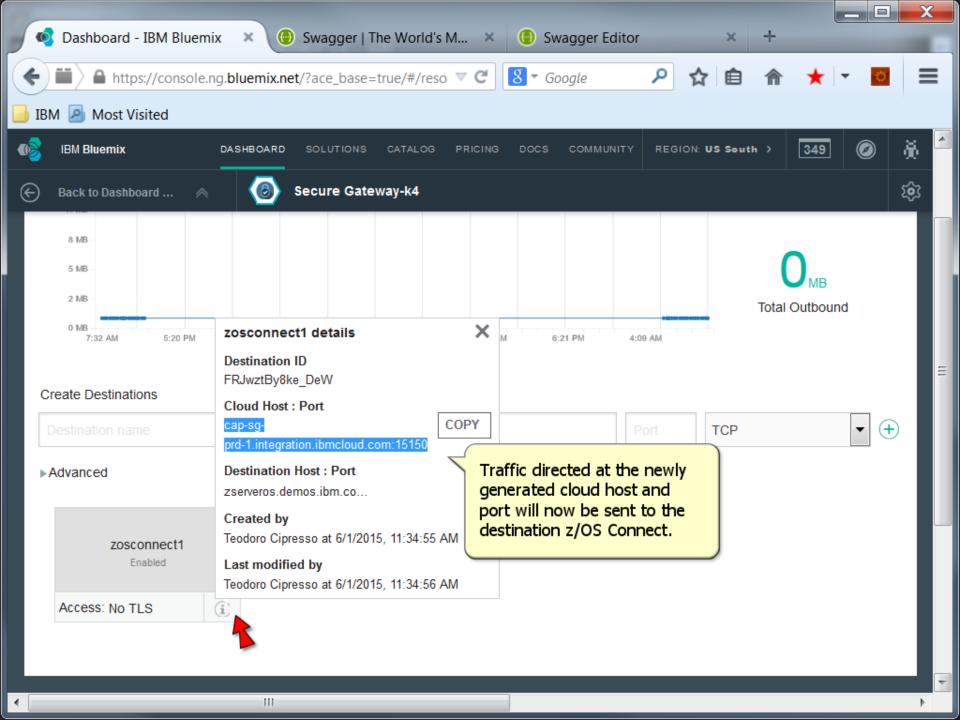






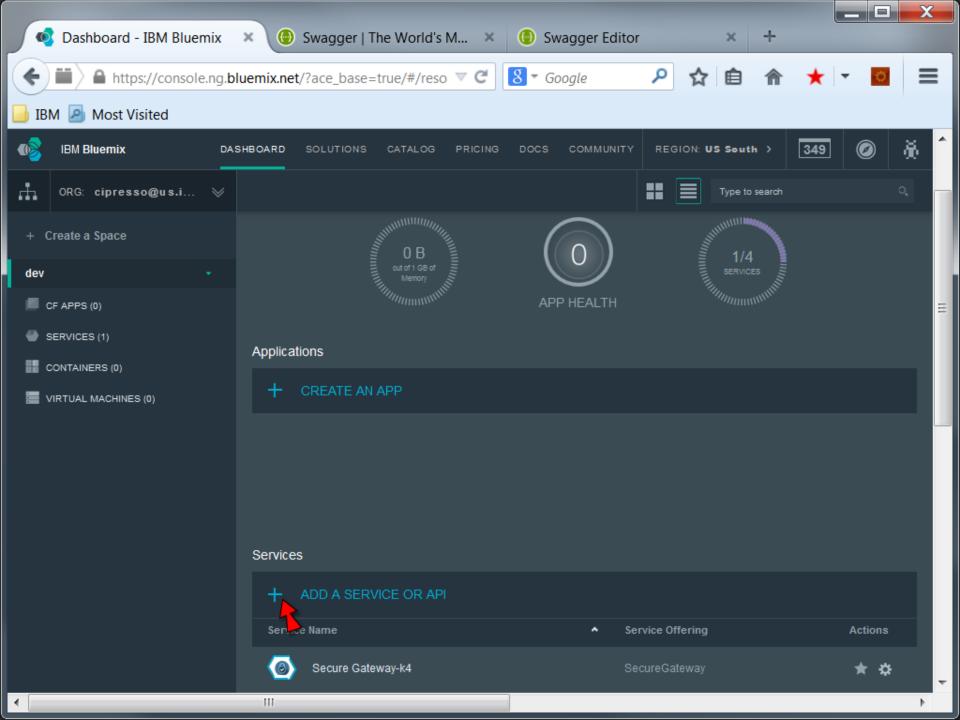


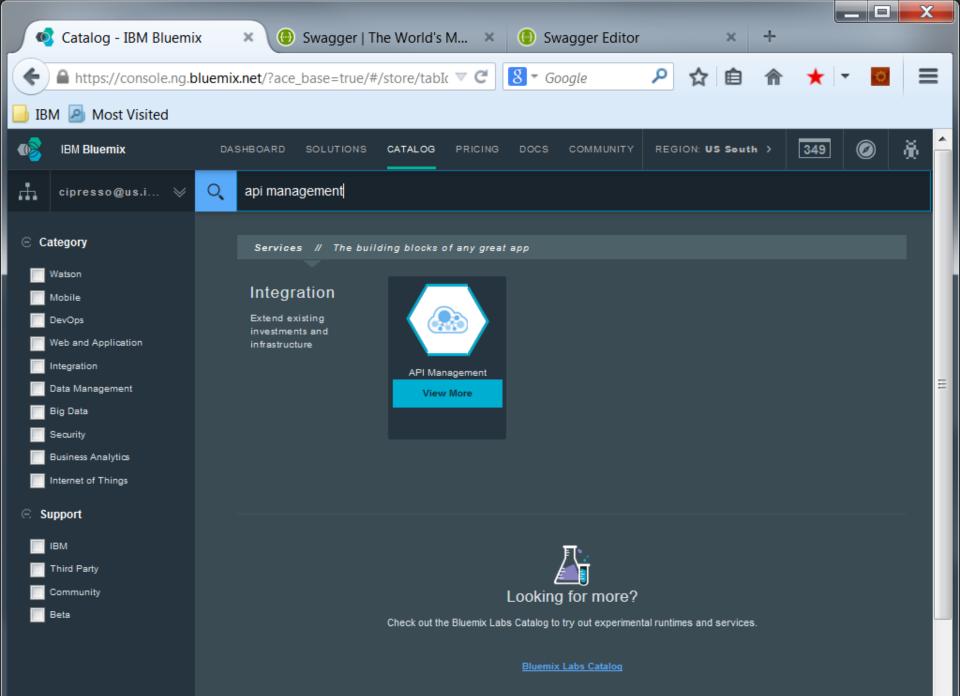


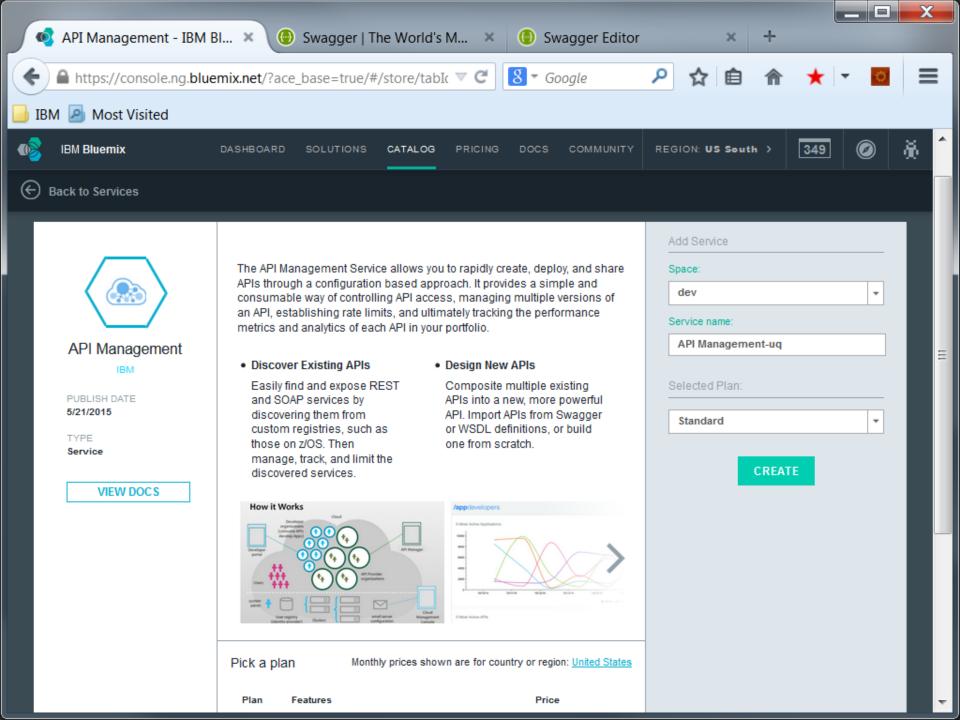


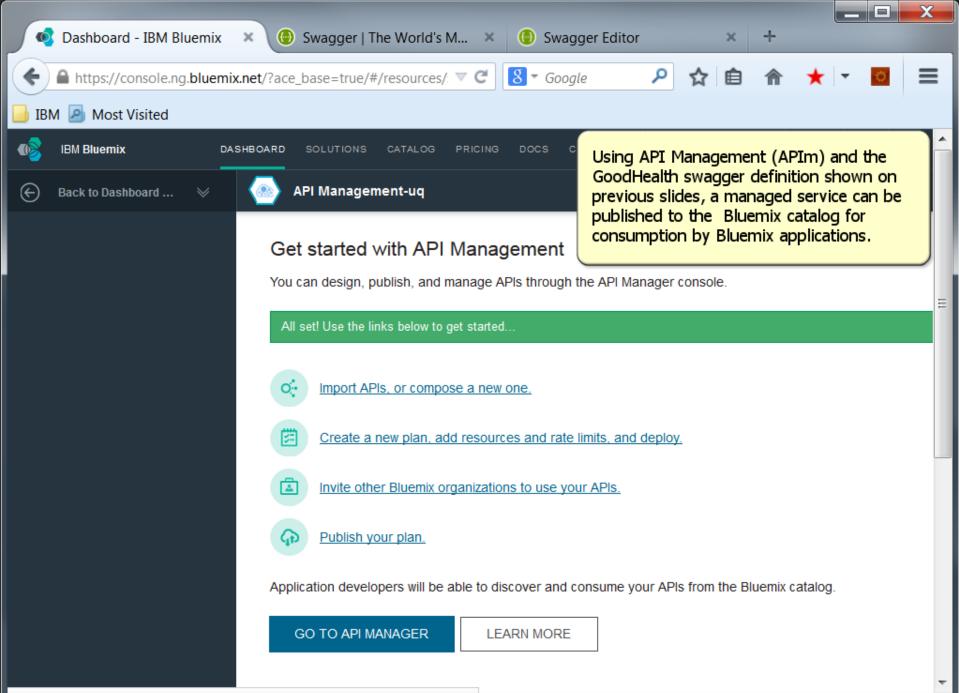


## Use Swagger and API Management to Manage and Publish z/OS Connect Services in Bluemix





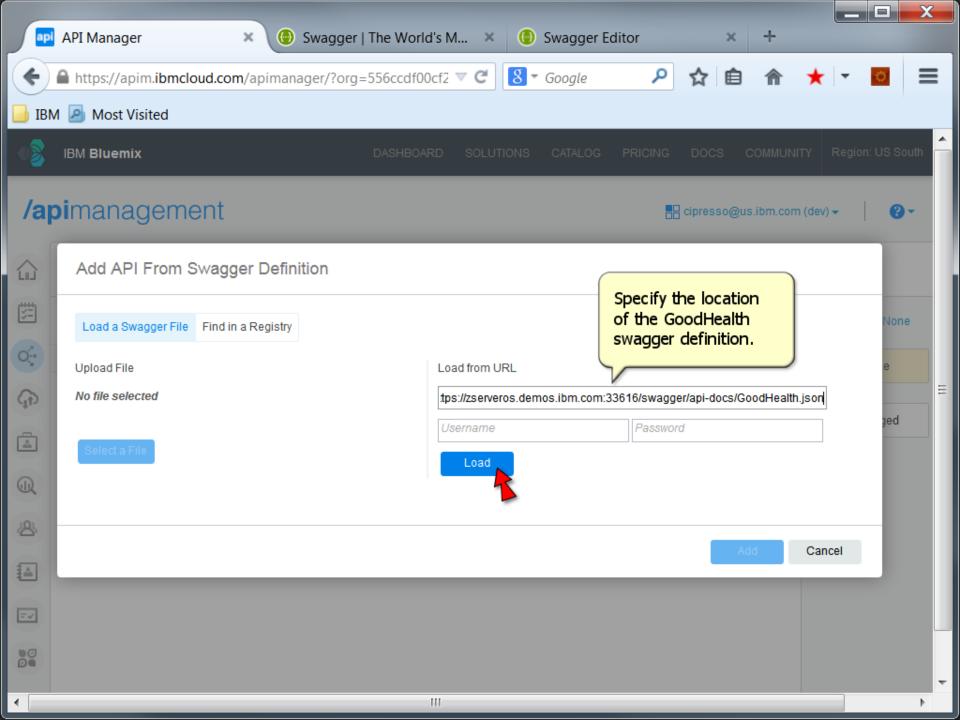


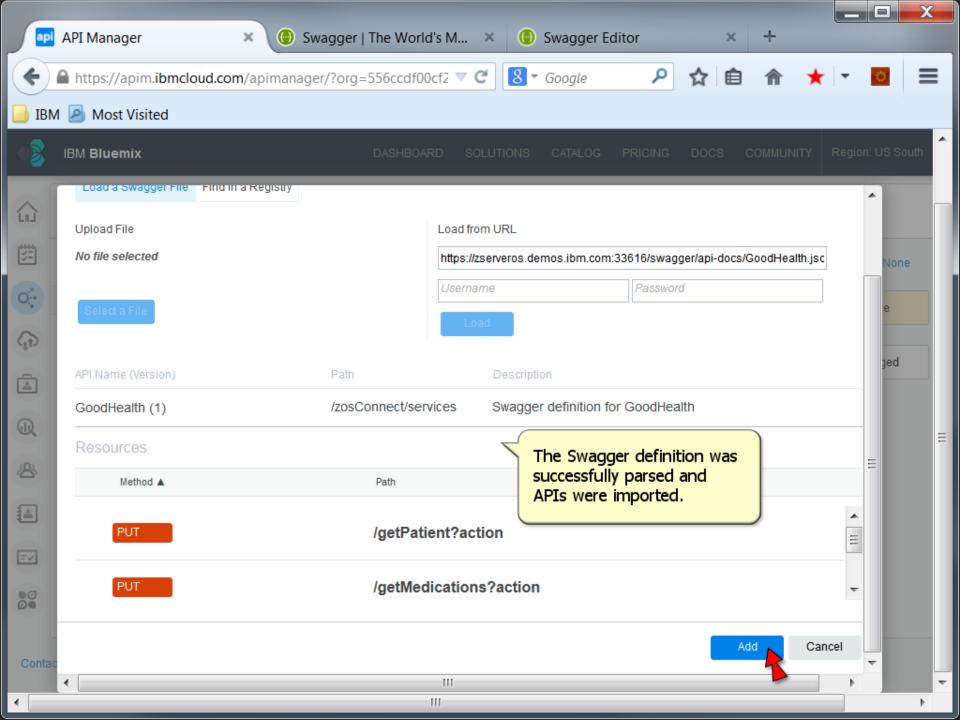


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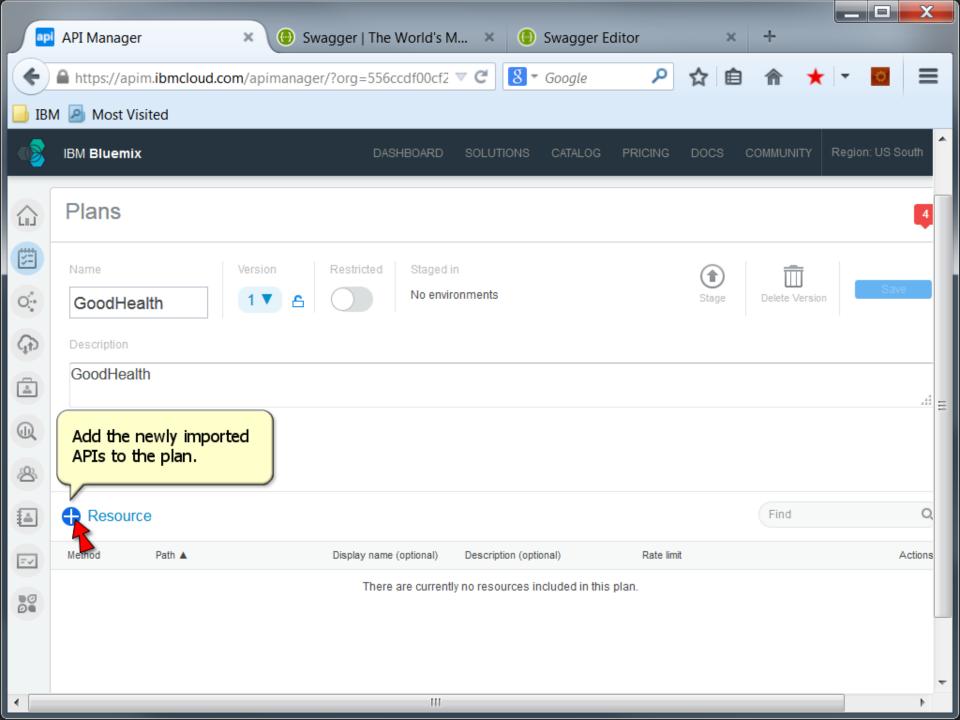
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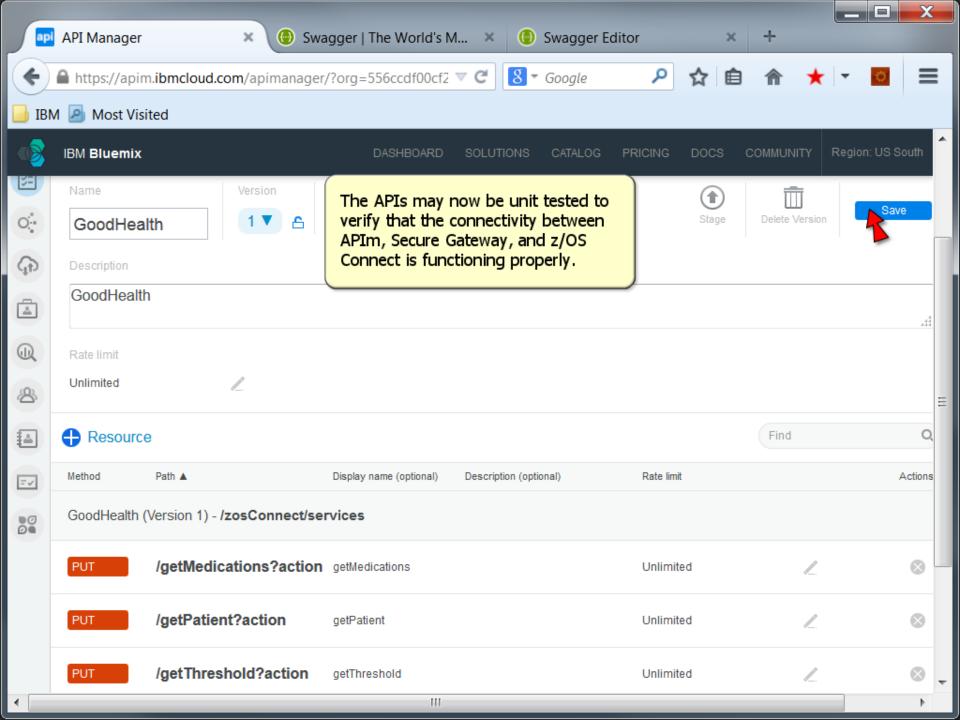


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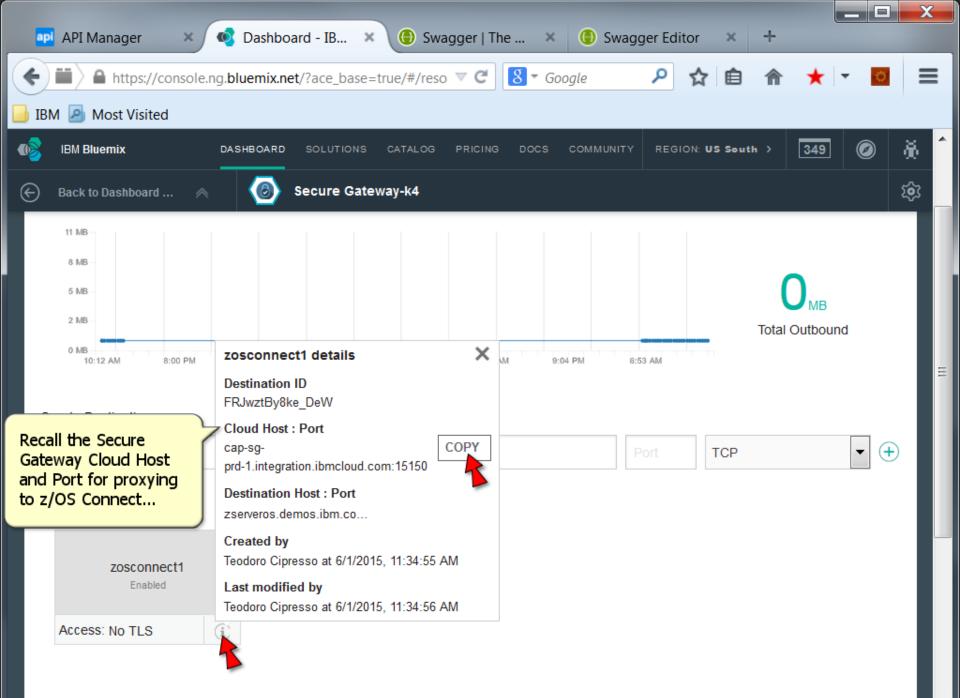
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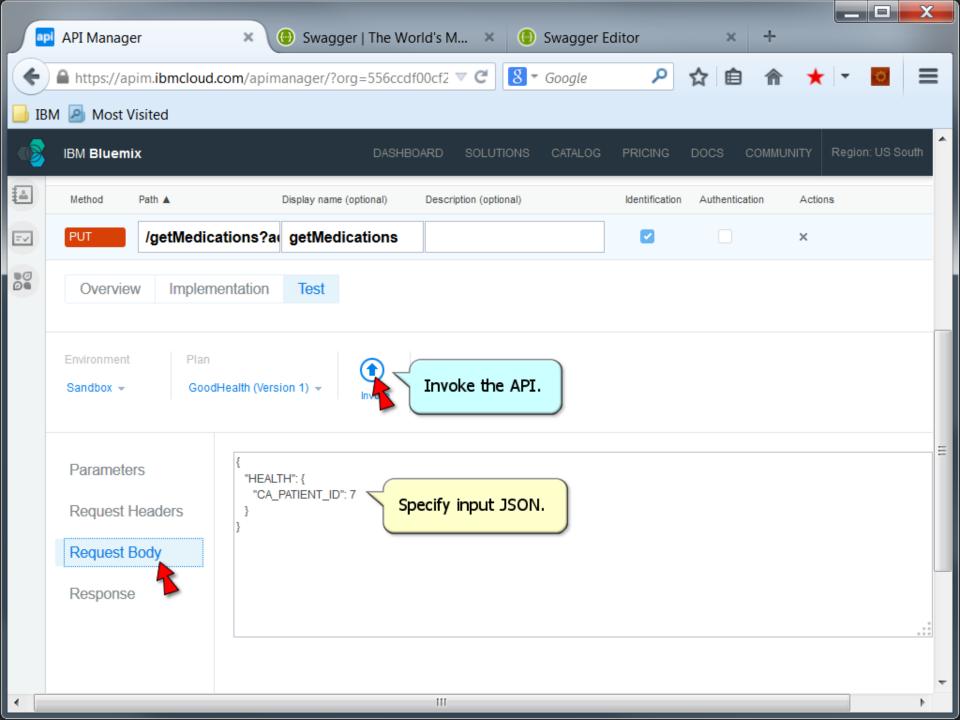
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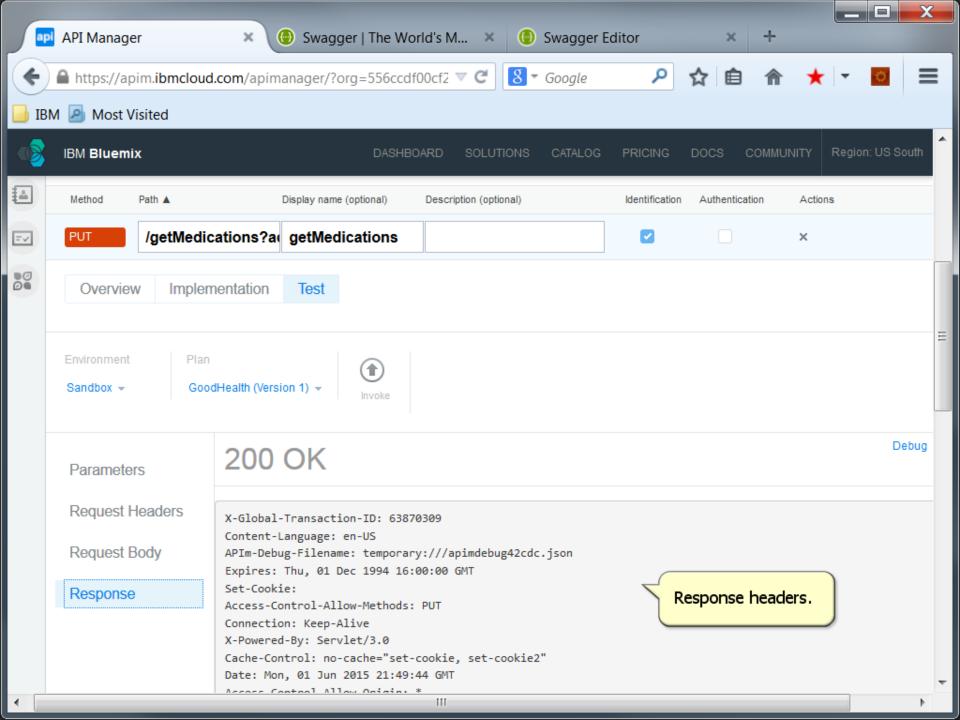
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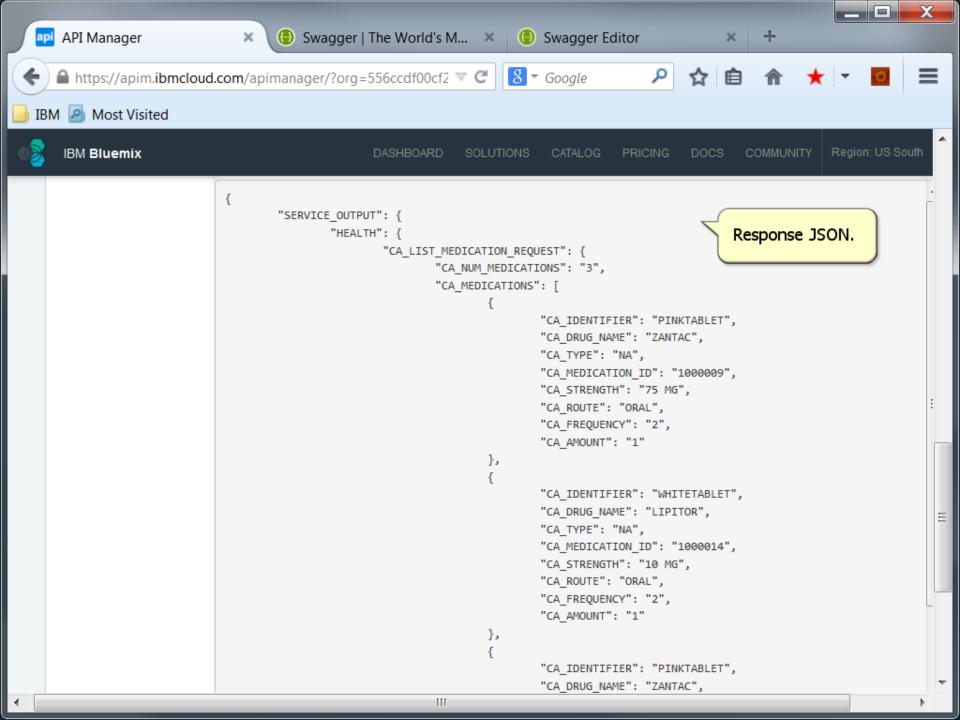
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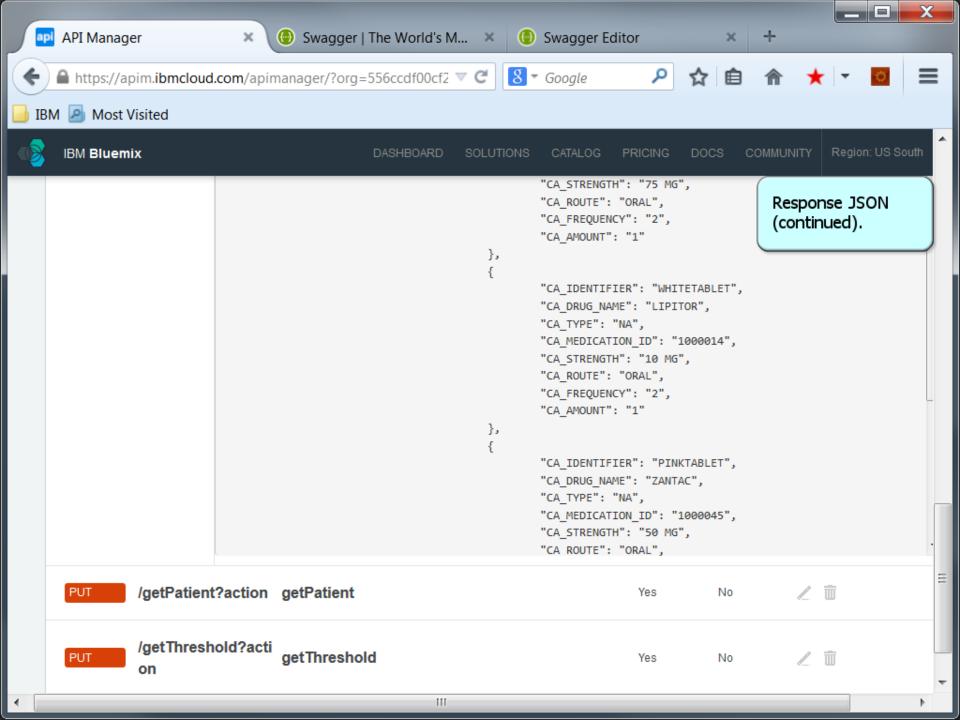
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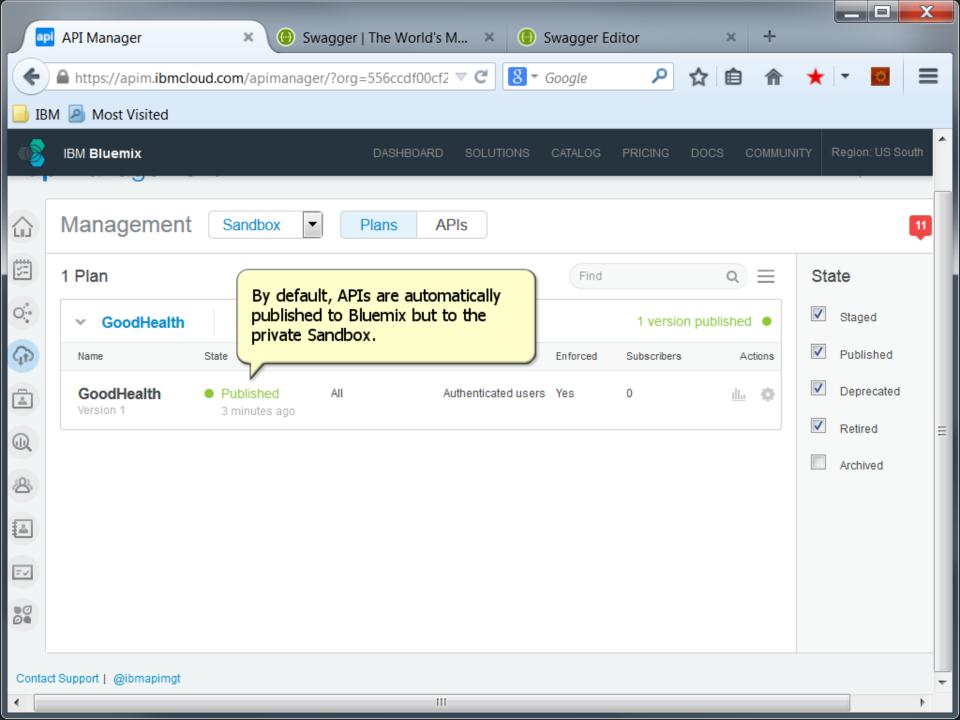


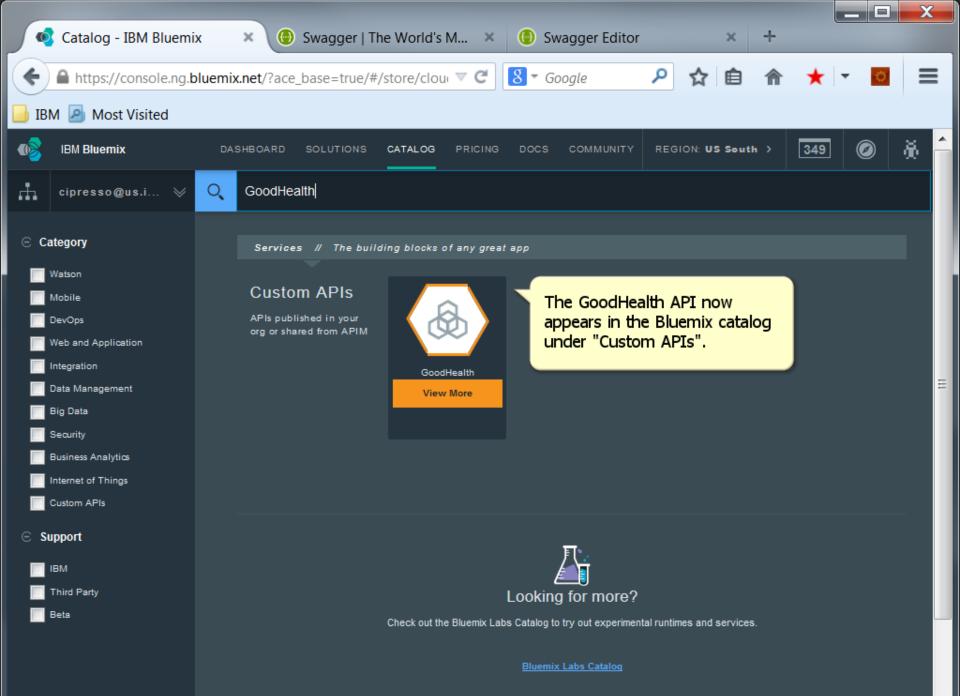






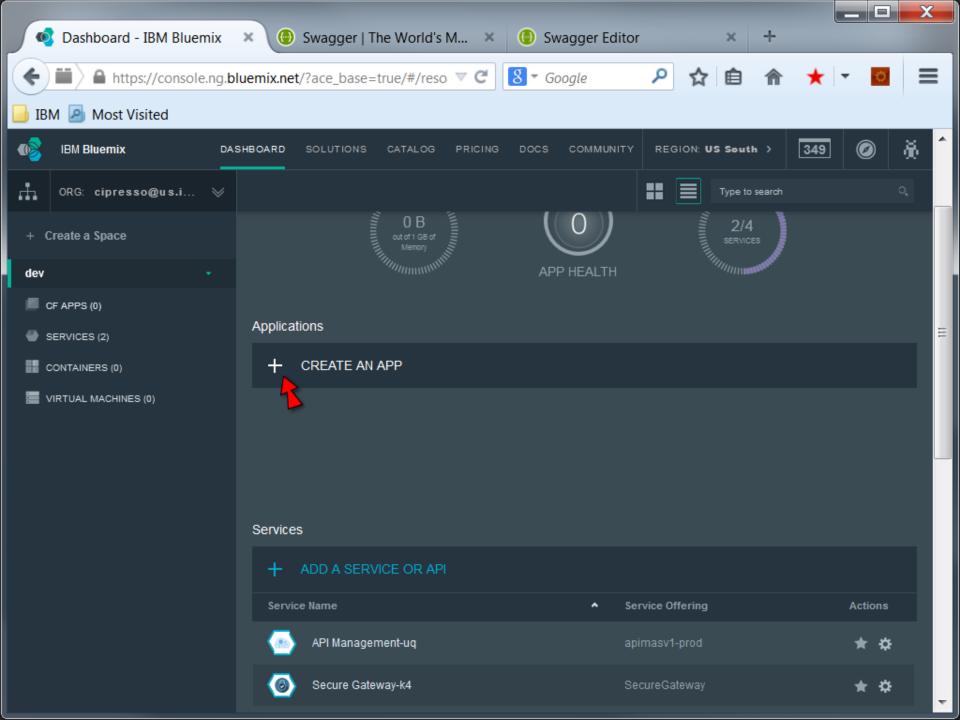
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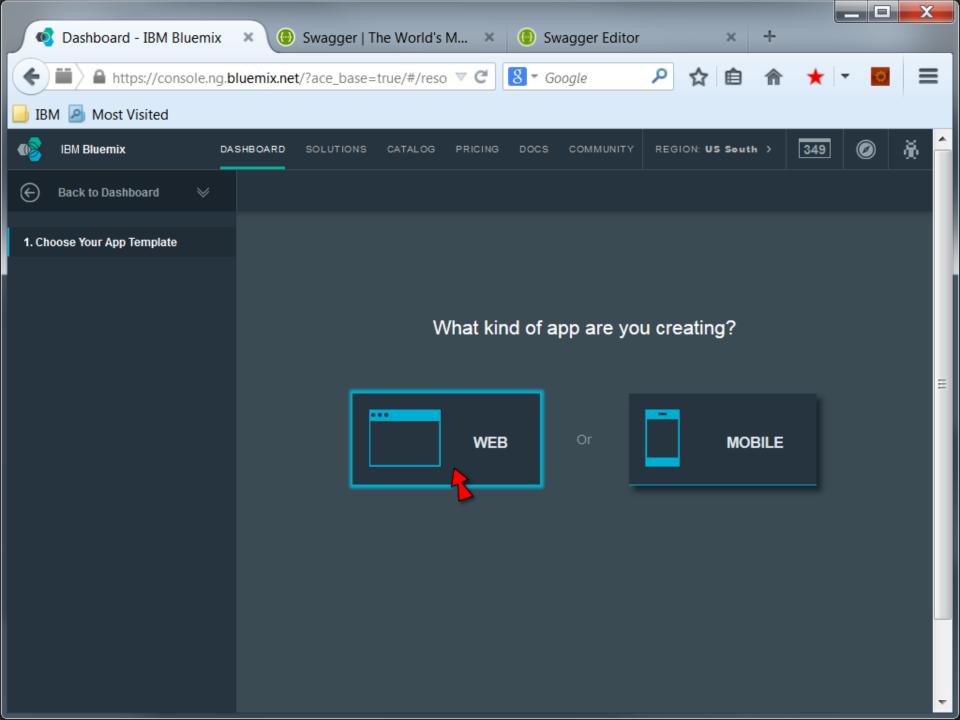


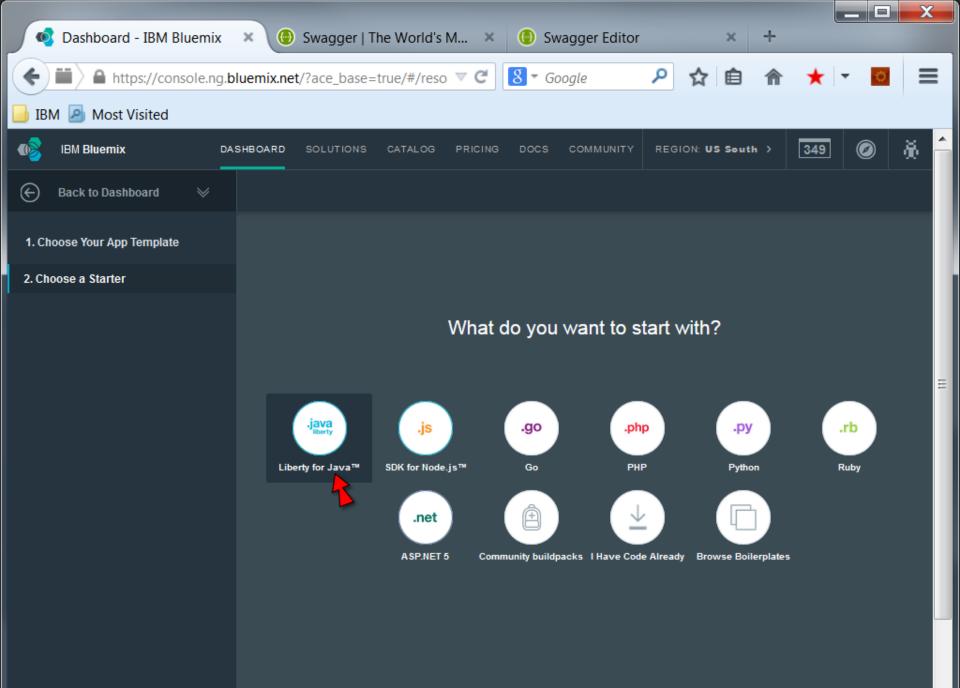


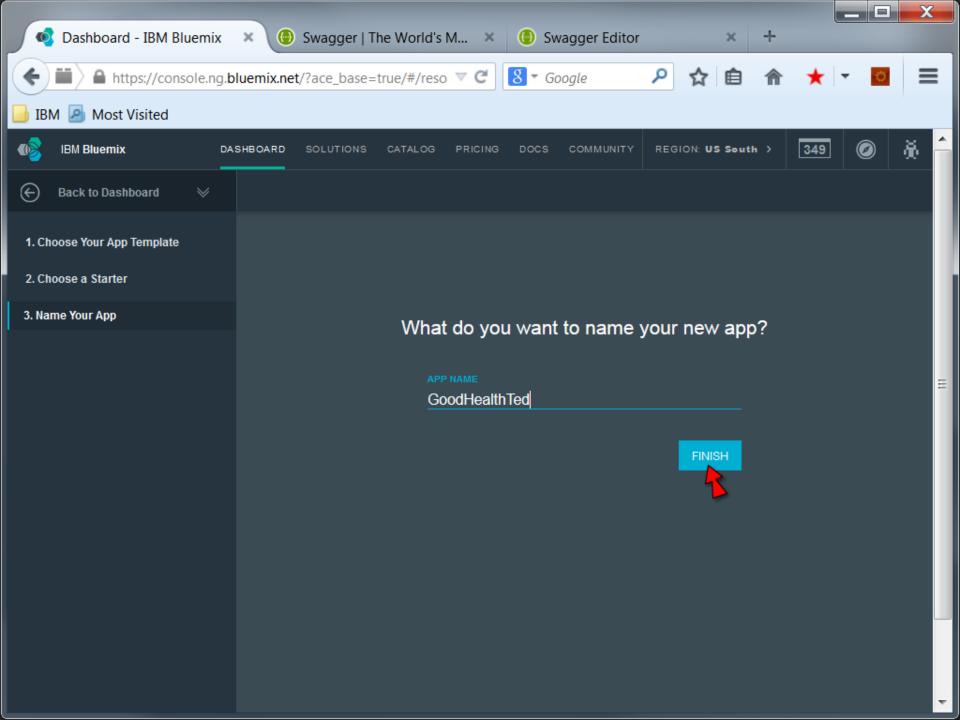


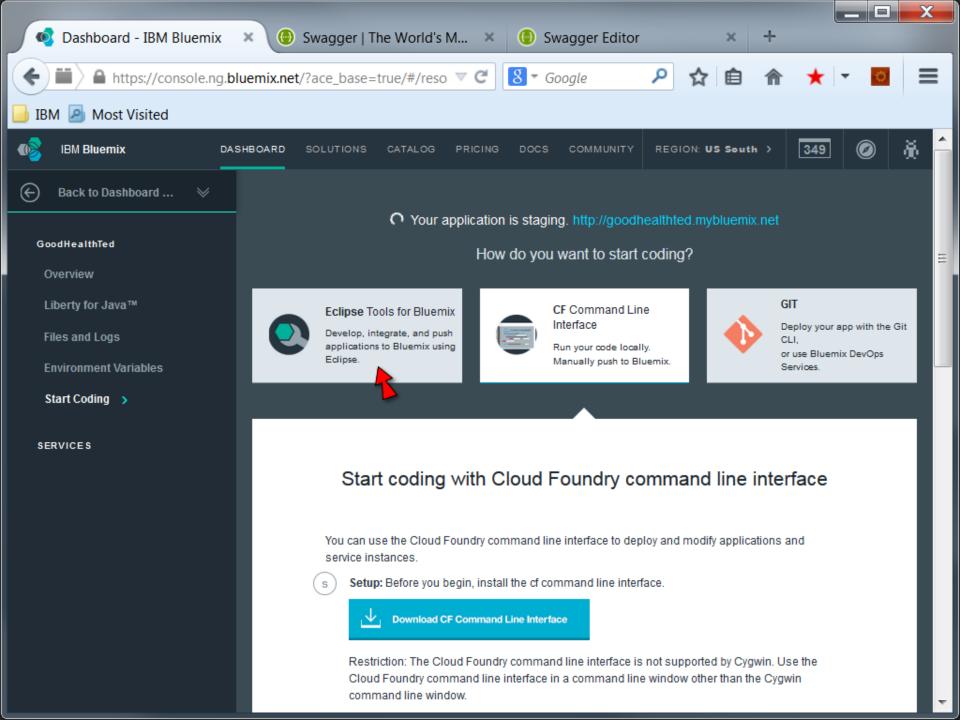
## Create a Bluemix Hybrid Cloud App that leverages z/OS Connect Services in Bluemix

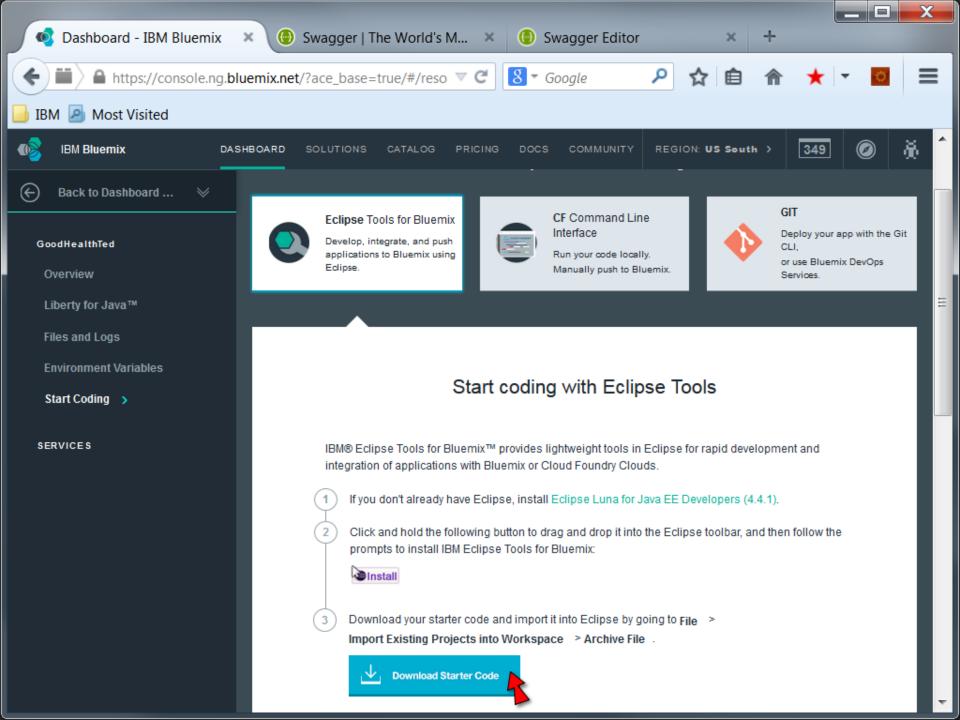


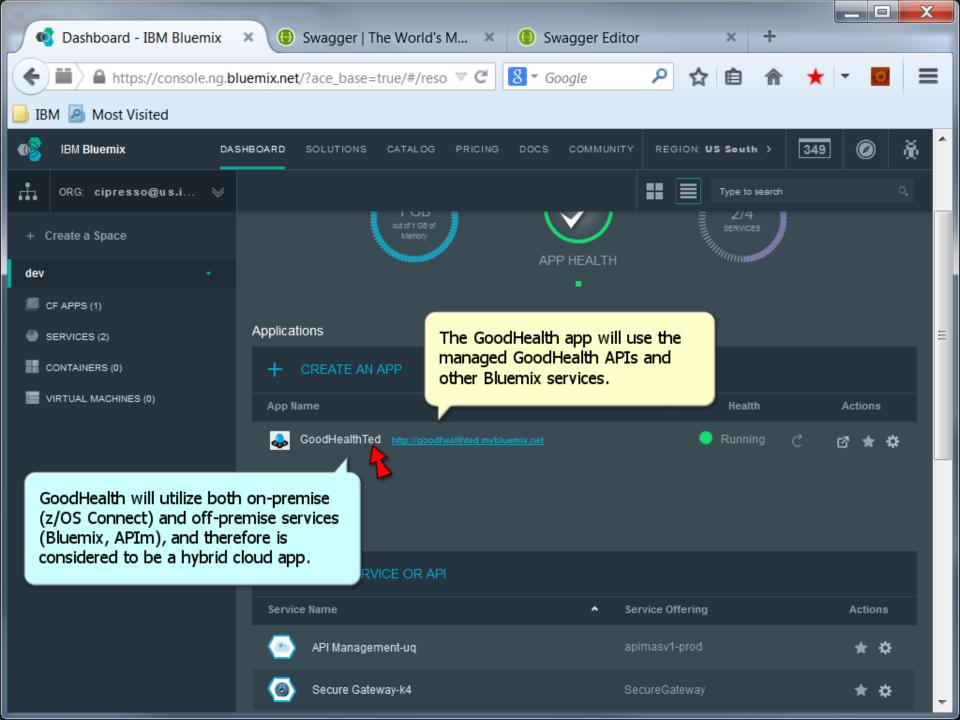


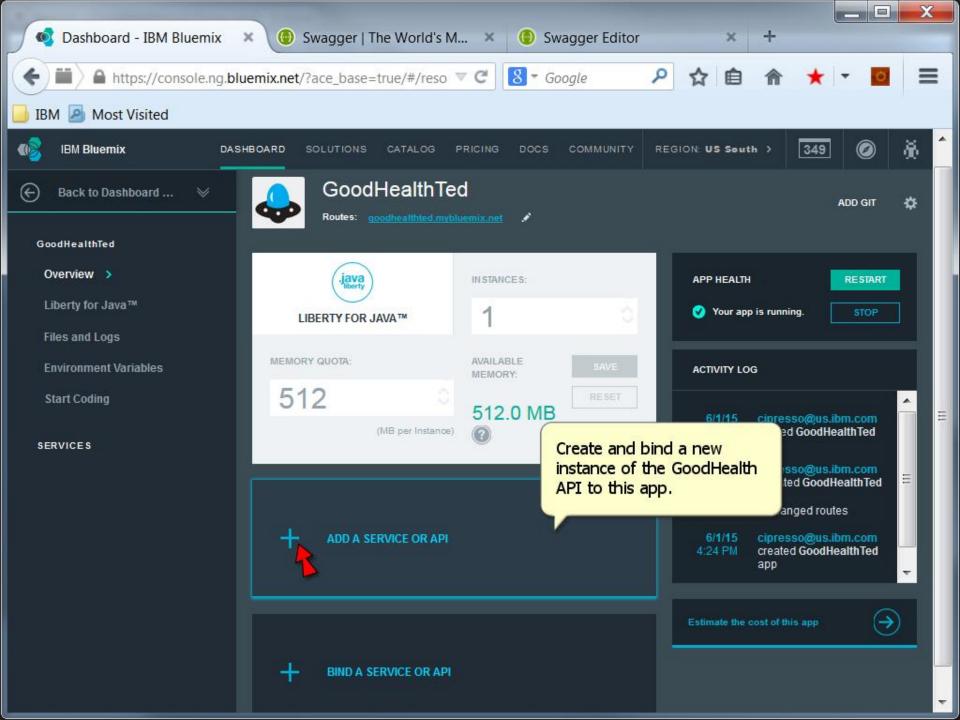


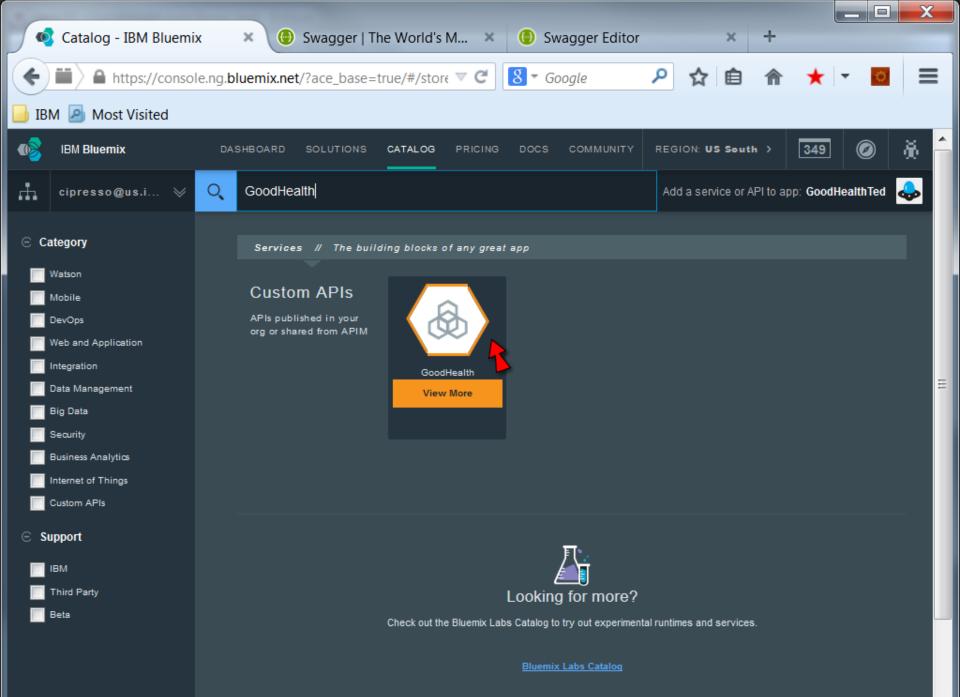


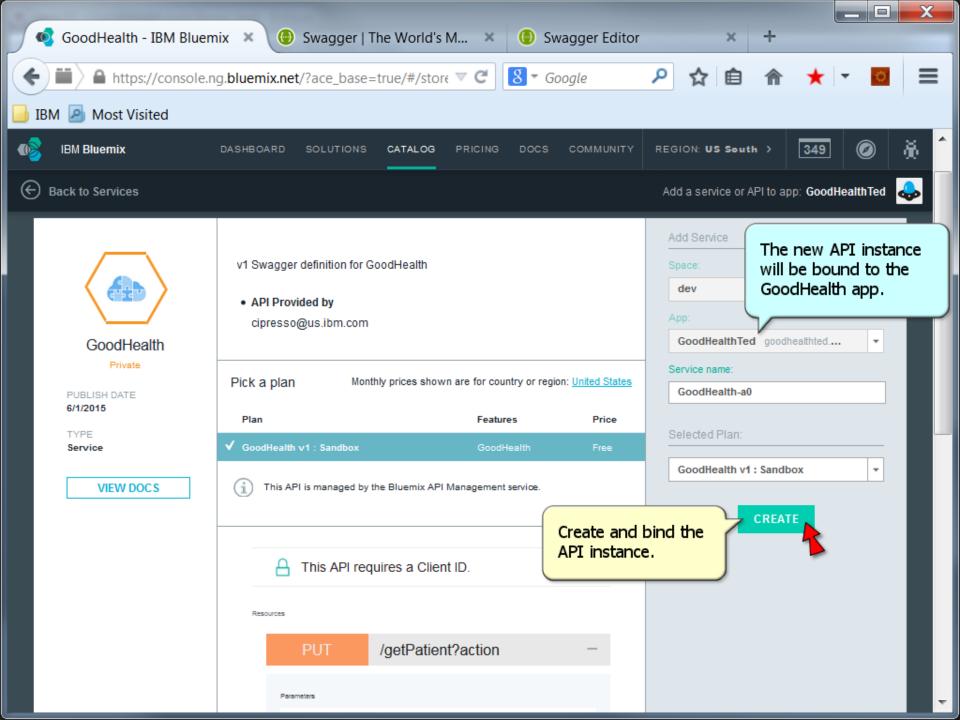


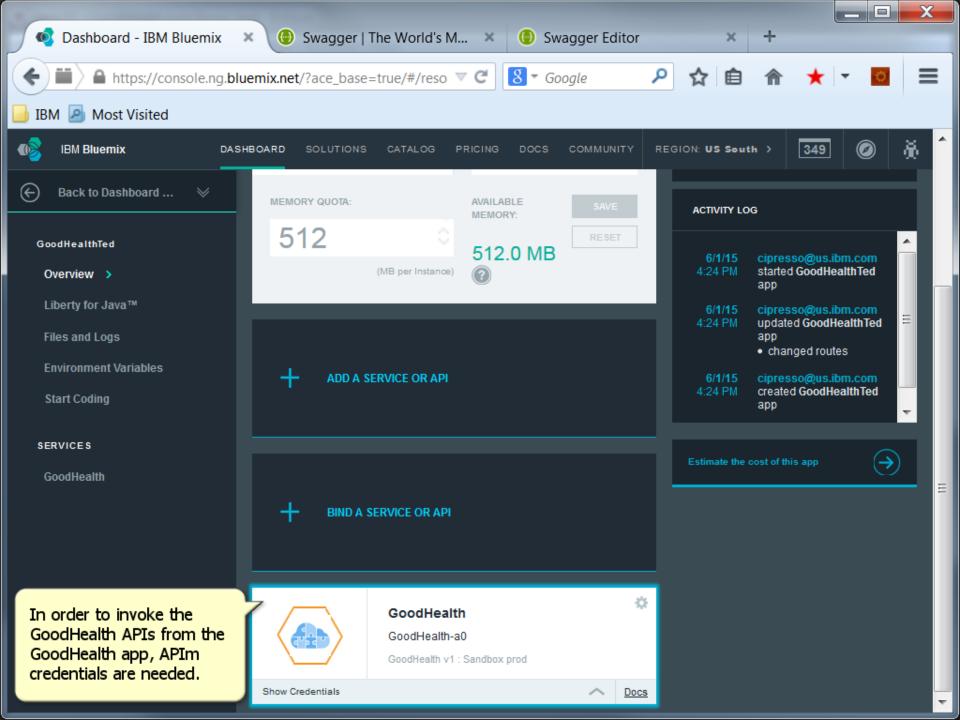


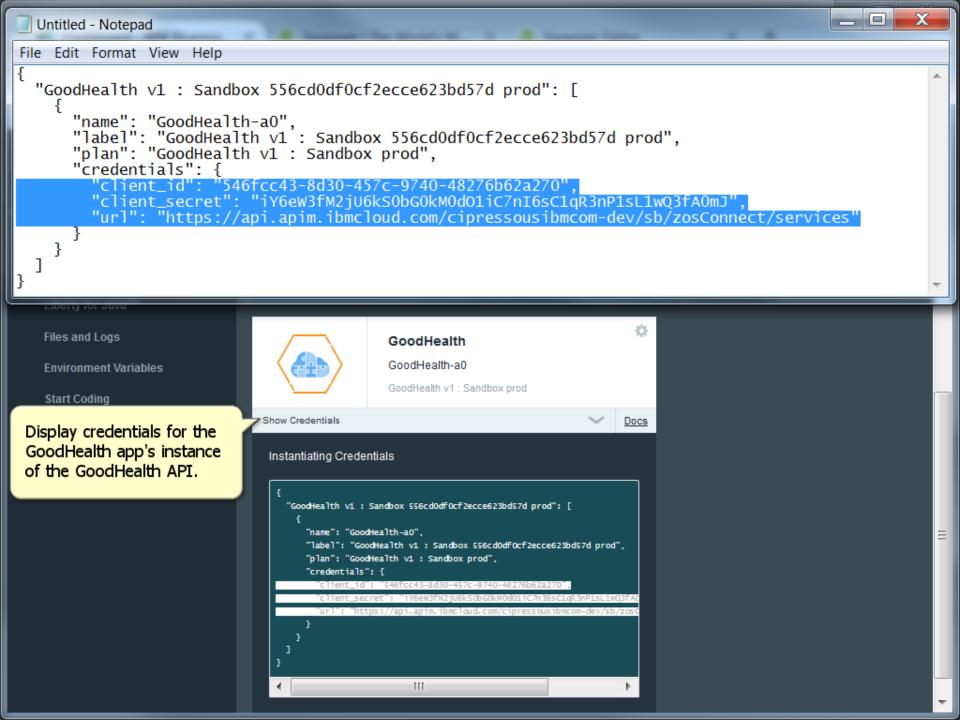


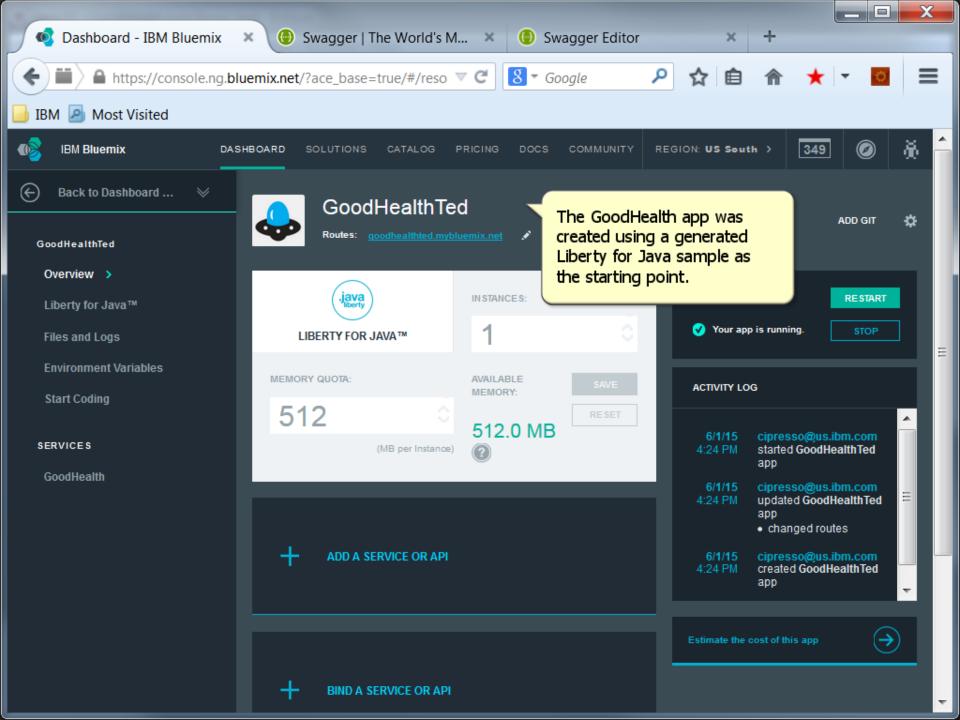


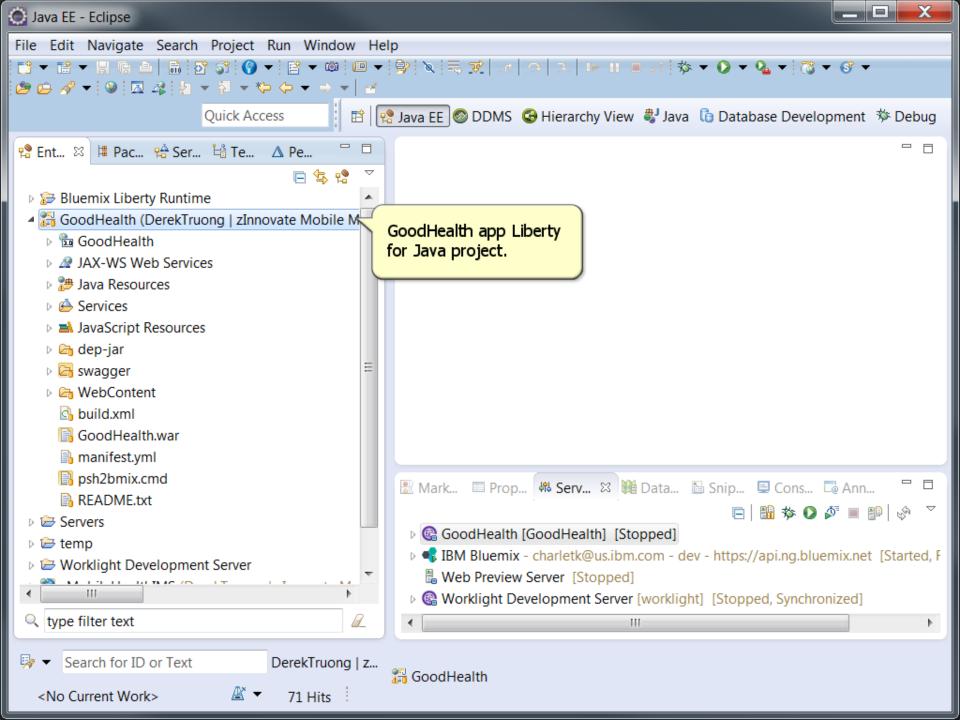


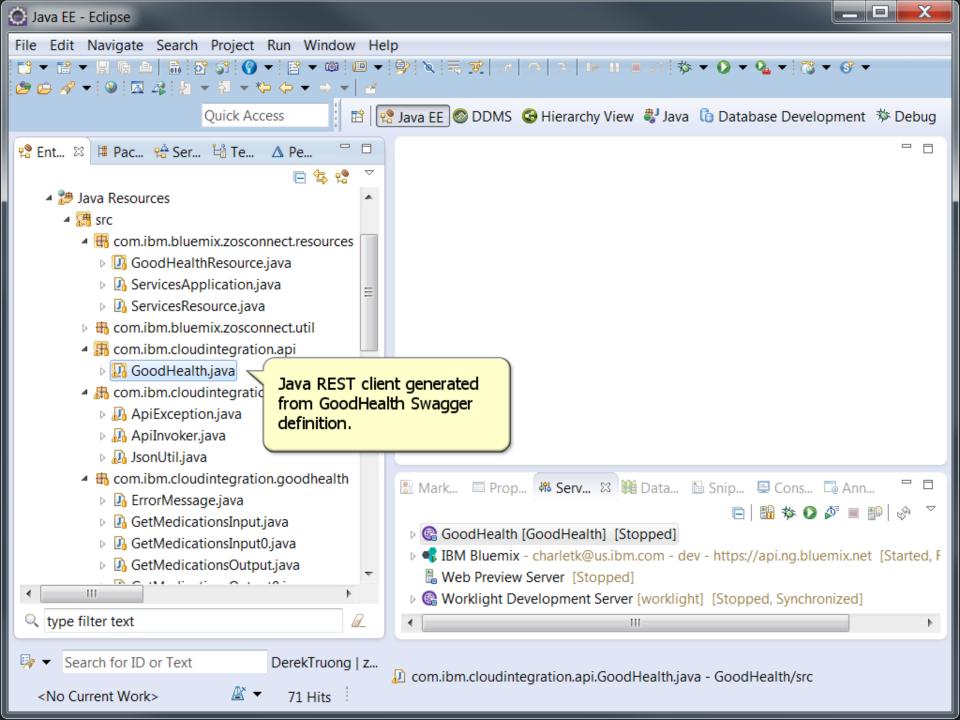


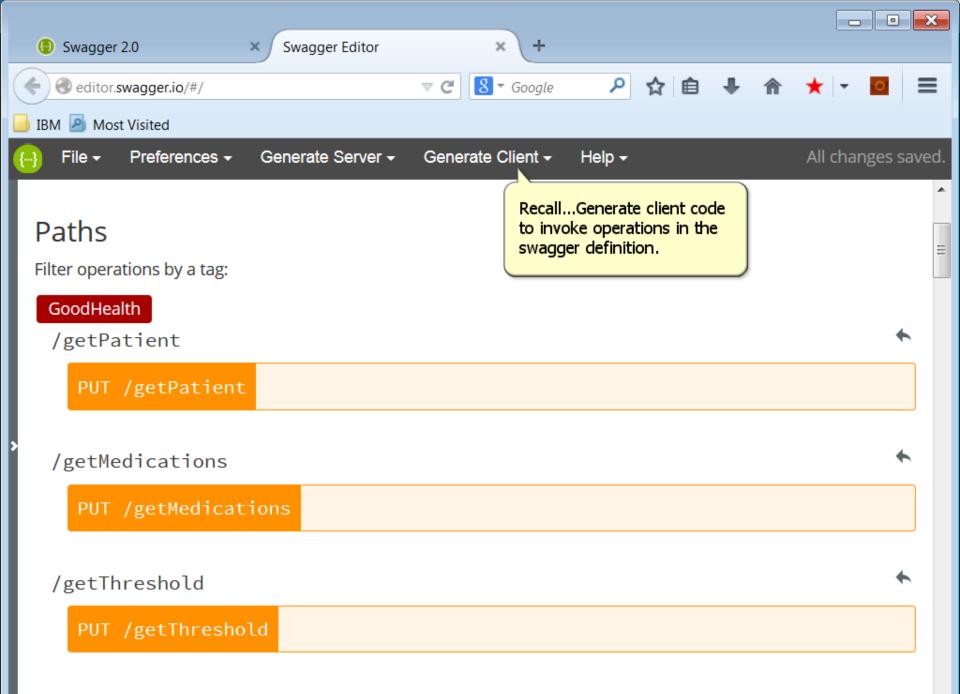










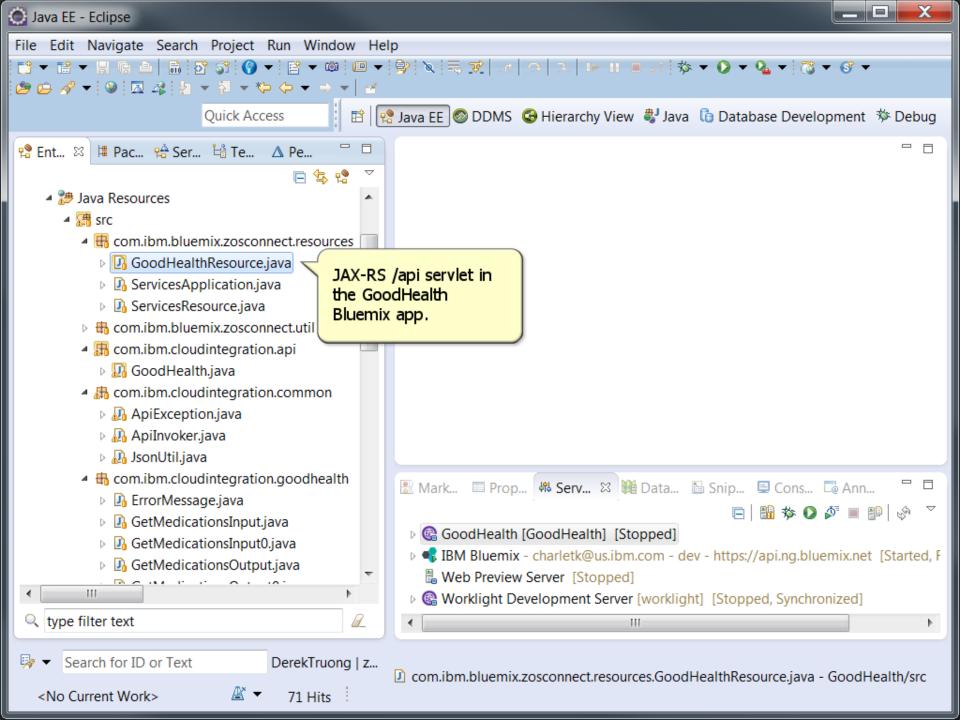


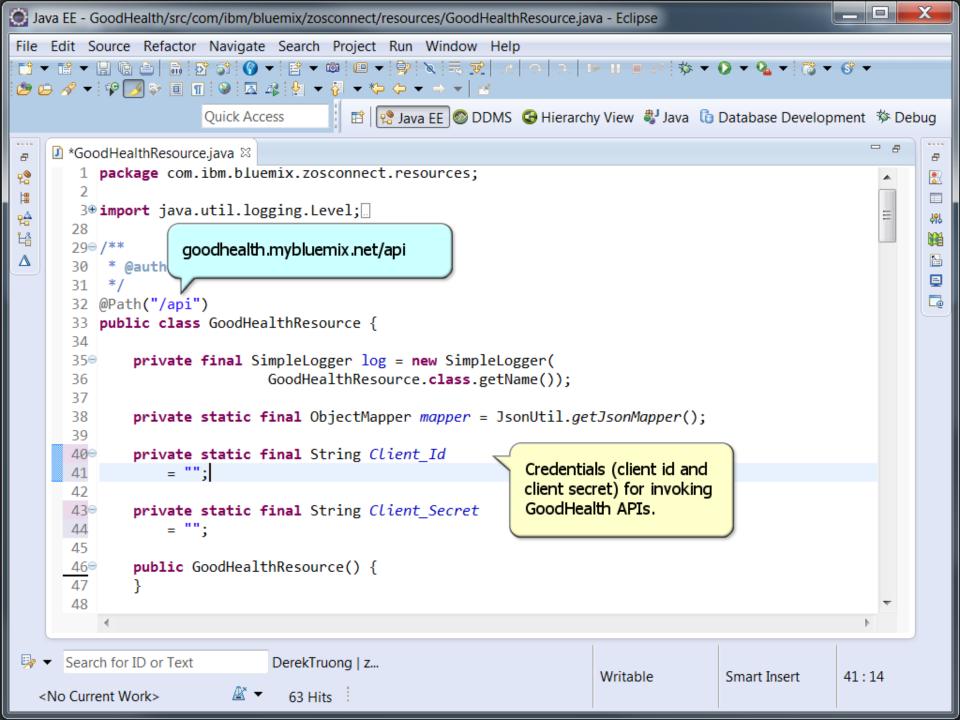
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  "GoodHealth v1 : Sandbox 556cd0df0cf2ecce623bd57d prod": [
      "name": "GoodHealth-a0",
      "label": "GoodHealth v1 : Sandbox 556cd0df0cf2ecce623bd57d prod",
      "plan": "GoodHealth v1 : Sandbox prod",
      "credentials": {
         "client_id": "546fcc43-8d30-457c-9740-48276b62a270",
        "client_secret": "iY6eW3fM2jU6kS0bG0kM0dO1iC7nI6sC1gR3nP1sL1wQ3fA0mJ",
        "url": "https://api.apim.ibmcloud.com/cipressousibmcom-dev/sb/zosConnect/services"
         public class GoodHealth {
      22
      23<sup>©</sup>
           String basePath
      24
                =
                          Configure the generated REST client
           ApiInvoker a
      25
                          endpoint to invoke GoodHealth APIs
           String usern
      26
                          through API Management.
      27
           String passw
           String secre
      28
      29
      300
           public ApiInvoker getInvoker() {
      31
              return apiInvoker;
      32
            }
      33
      34<sup>©</sup>
           public void setBasePath(String basePath) {
      35
             this.basePath = basePath;
            }
      36
      27
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     Search for ID or Text
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                          # -
  <No Current Work>
                                 99 Hits
```

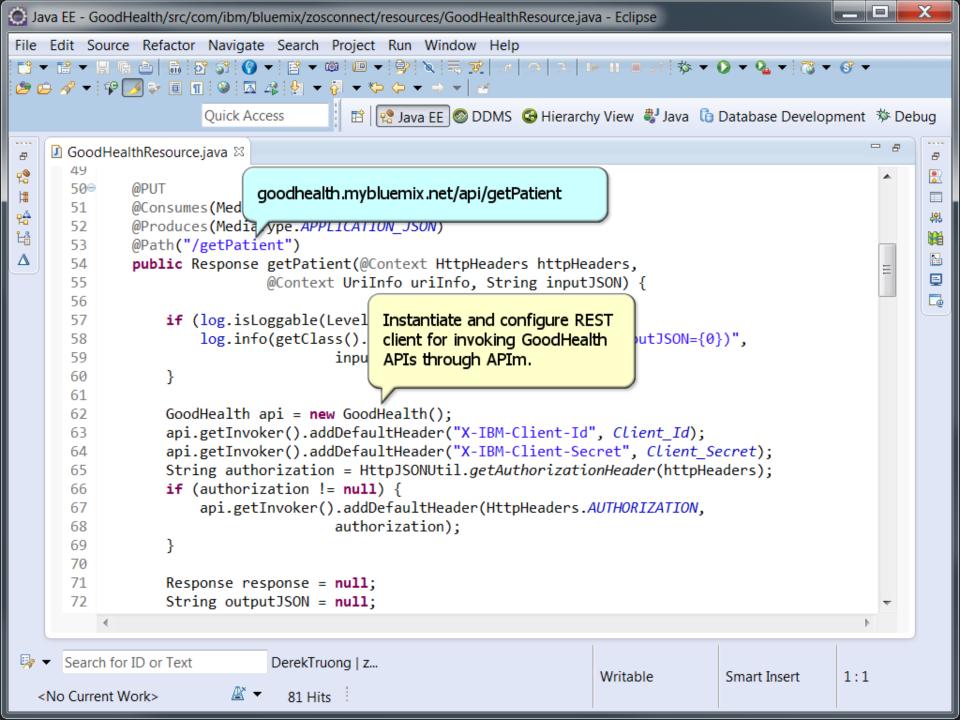
```
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{
  "GoodHealth v1 : Sandbox 556cd0df0cf2ecce623bd57d prod": [
      "name": "GoodHealth-a0",
      "label": "GoodHealth v1 : Sandbox 556cd0df0cf2ecce623bd57d prod",
      "plan": "GoodHealth v1 : Sandbox prod",
      "credentials": {
        "client_id": "546fcc43-8d30-457c-9740-48276b62a270",
        "client_secret": "iY6eW3fM2jU6kS0bG0kM0d01iC7nI6sC1qR3nP1sL1wQ3fA0mJ",
         "url": "https://api.apim.ibmcloud.com/cipressousibmcom-dev/sb/zosConnect/services"
      22 public class GoodHealth {
      23<sup>©</sup>
           String basePath
      24
               = "https://api.apim.ibmcloud.com/cipressousibmcom-dev/sb/zosConnect/services";
           ApiInvoker apiInvoker = ApiInvoker.getInstance();
      25
           String username = null;
      26
      27
           String password = null;
           String secretKey = null;
      28
      29
      300
           public ApiInvoker getInvoker() {
      31
             return apiInvoker;
      32
           }
      33
      34⊝
           public void setBasePath(String basePath) {
             this.basePath = basePath;
      35
      36
      27
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                         # -
  <No Current Work>
                                99 Hits
```

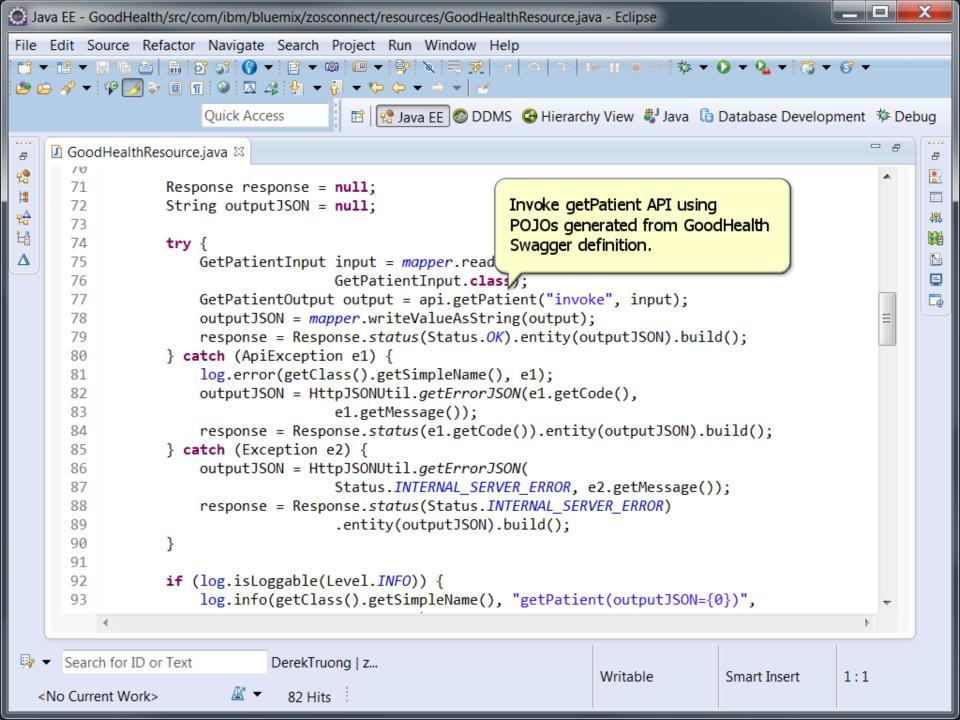
```
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                                                                                                                  X
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File Edit Format View Help
{
  "GoodHealth v1 : Sandbox 556cd0df0cf2ecce623bd57d prod": [
       "name": "GoodHealth-a0",
       "label": "GoodHealth v1 : Sandbox 556cd0df0cf2ecce623bd57d prod",
       "plan": "GoodHealth v1 : Sandbox prod",
       "credentials": {
         "client_id": "546fcc43-8d30-457c-9740-48276b62a270",
"client_secret": "iY6eW3fM2jU6kS0bG0kM0d01iC7nI6sC1qR3nP1sL1wQ3fA0mJ",
         "url": "https://api.apim.ibmcloud.com/cipressousibmcom-dev/sb/zosConnect/services"
      22 public class GoodHealth {
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            String basePath
      24
                = "https://api.apim.ibmcloud.com/cipressousibmcom-dev/sb/zosConnect/services";
            ApiInvoker apiInvoker = ApiInvoker.getInstance();
      25
            String username = null;
      26
      27
            String password = null;
            String secretKey = null;
      28
      29
      300
            public ApiInvoker getInvoker() {
      31
              return apiInvoker;
      32
            }
      33
      34⊝
            public void setBasePath(String basePath) {
              this.basePath = basePath;
      35
      36
      27
     Search for ID or Text
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                           # -
  <No Current Work>
                                 100 Hits
```

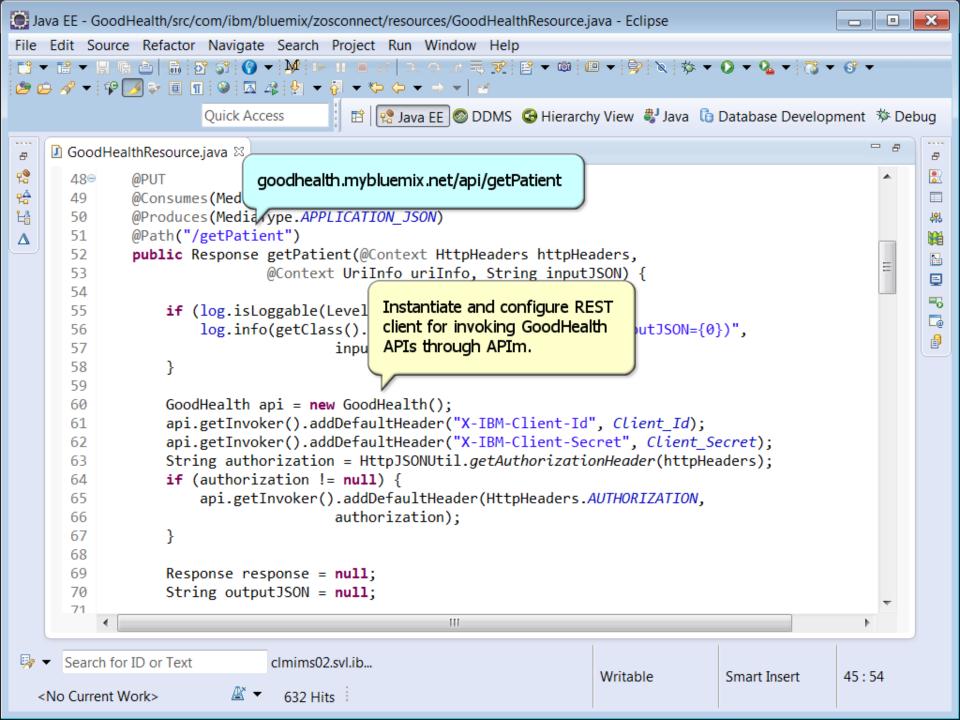


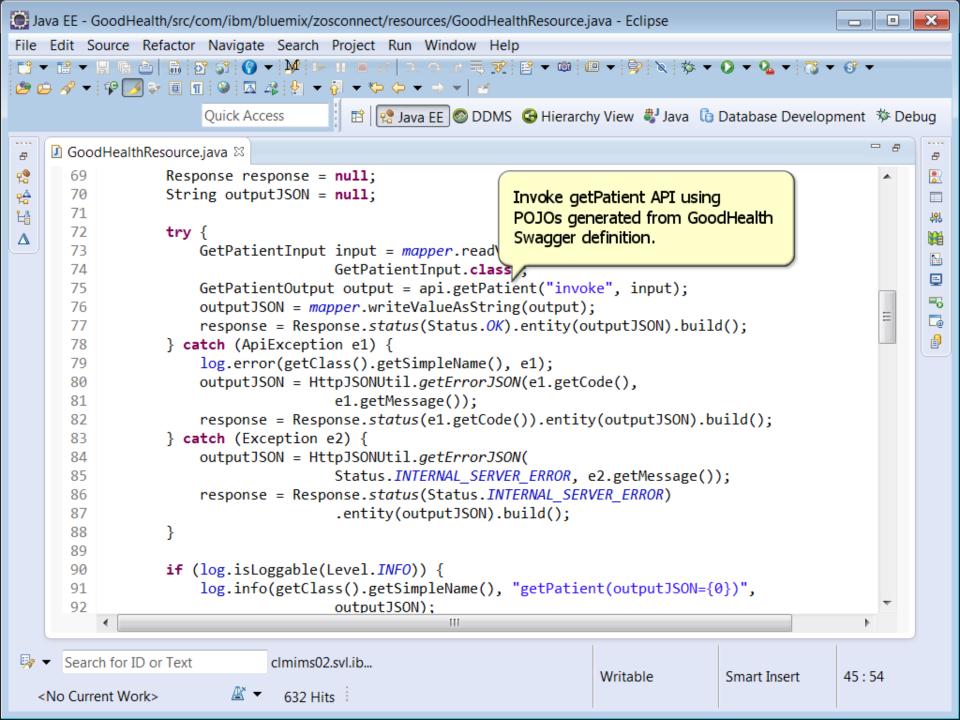


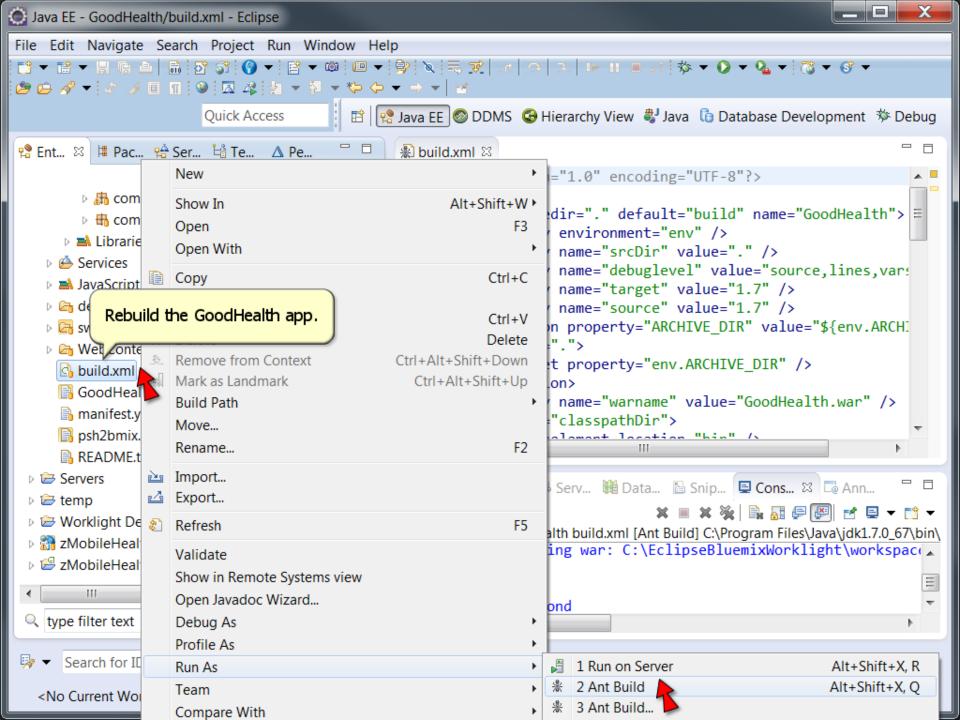
```
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  Untitled - Notepad
File Edit Format View Help
{
  "GoodHealth v1 : Sandbox 556cd0df0cf2ecce623bd57d prod": [
      "name": "GoodHealth-a0".
      "label": "GoodHealth v1 : Sandbox 556cd0df0cf2ecce623bd57d prod",
      "plan": "GoodHealth v1 : Sandbox prod".
      "credentials": {
         'client_id": "546fcc43-8d30-457c-9740-48276b62a270",
        "client_secret": "iY6eW3fM2jU6kS0bG0kM0dO1iC7nI6sC1qR3nP1sL1wQ3fA0mJ",
        "url": "https://api.apim.ibmcloud.com/cipressousibmcom-dev/sb/zosConnect/services"
         public class GoodHealthResource {
      33
      34
             private final SimpleLogger log = new SimpleLogger(
      350
                             GoodHealthResource.class.getName());
      36
      37
             private static final ObjectMapper mapper = JsonUtil.aetJsonMapper();
      38
      39
      40⊝
             private static final String Client Id
                 = "546fcc43-8d30-457c-9740-48276b62a270";
      41
      42
             private static final String Client Secret
      43⊖
                 = "iY6eW3fM2jU6kS0bG0kM0d01iC7nI6sC1qR3nP1sL1w03fA0mJ";
      44
      45
             public GoodHealthResource() {
      46⊝
      47
      48
     Search for ID or Text
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                              DerekTruong | z...
                                                                    Writable
                                                                                   Smart Insert
                                                                                                 44:62
                         # -
  <No Current Work>
                               63 Hits
```

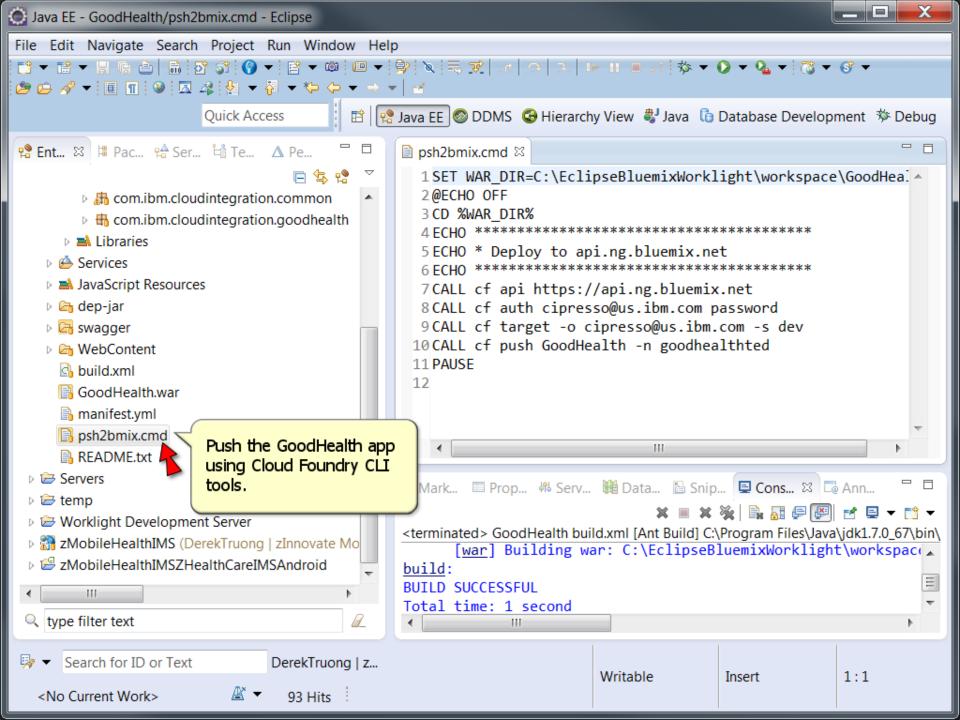




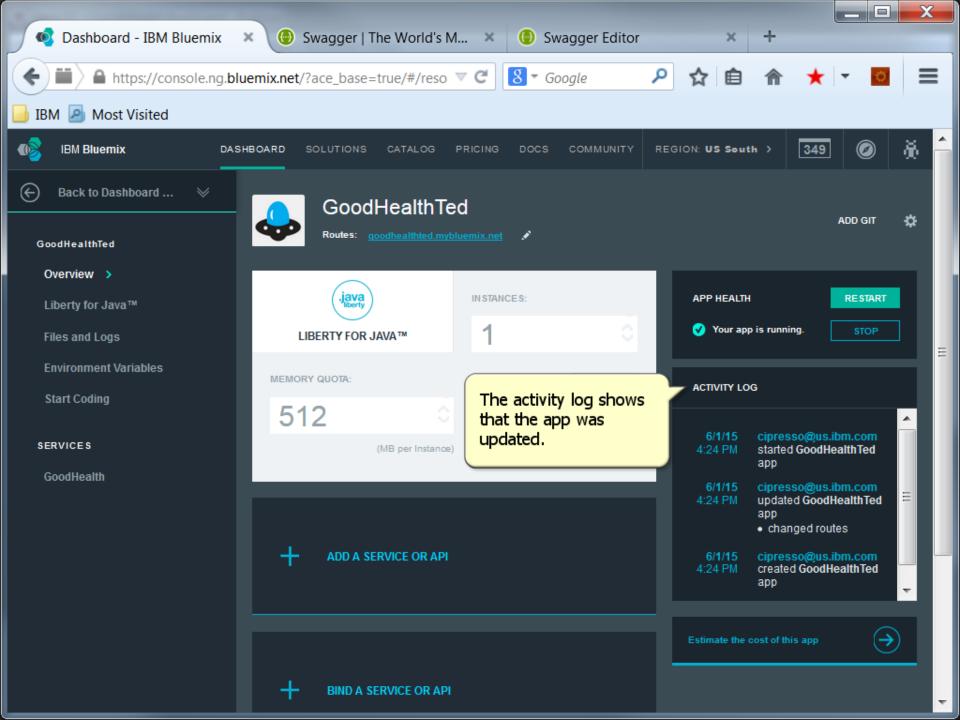


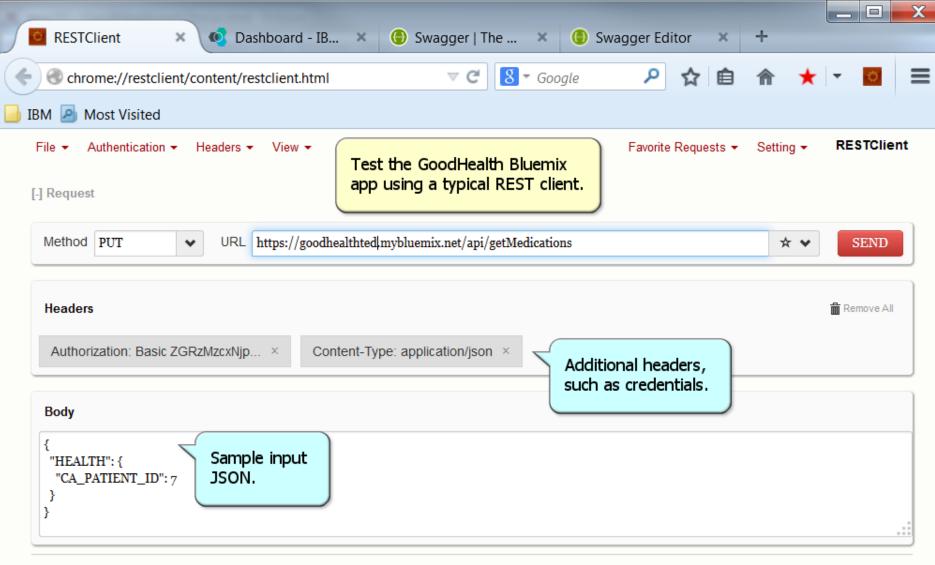






```
- 0
C:\windows\system32\cmd.exe
                                                                                Push the GoodHealth app
                cipresso@us.ibm.com
Org:
                                                                                using Cloud Foundry CLI
                dev
Space:
                                                                                tools (continued).
<u>Using manifest file C:\EclipseBluemixWorklight\workspace\GoodHealth\manifest</u>
                                                                                      evelopment 🔅 Debug
Creating app GoodHealth in org cipresso@us.ibm.com / space dev as cipresso@us.ib
                                                                                                  - -
m.com...
ΟK
                                                                                      space\GoodHeal 🔺
Using route goodhealthted.mybluemix.net
Binding goodhealthted.mybluemix.net to GoodHealth...
0K
Uploading GoodHealth...
Uploading app files from: C:\EclipseBluemixWorklight\workspace\GoodHealth\GoodHe
alth.war
Uploading 271K, 59 files
Done uploading
0K
Starting app GoodHealth in org cipresso@us.ibm.com / space dev as cipresso@us.ib
m.com...
----> Downloaded app package (2.1M)
    ----> Liberty Buildpack Version: v1.18-20150519-1642
                                                                                      🖾 🗔 Ann...
                                                                                                    -----> Retrieving IBM 1.7.1 sr3ifx-20150501 JRE (ibm-java-jre-7.1-3.0-pxa6470 27
                                                                                      🖻 💌 🖻 🕶 📑 🛨
sr3ifx-20150501_01-cloud.tgz) ... (0.0s)
         Expanding JRE to .java ... (0.9s)
                                                                                      es\Java\jdk1.7.0_67\bin\
                                                                                      klight\workspace_
----> Retrieving App Management 1.3.0_20150514-2229 (app-mgmt_v1.3-20150514-222
9.zip) ... (0.0s)
                                                                                                    Ξ
         Expanding App Management to .app-management (0.8s)
-----> Retrieving com.ibm.ws.liberty-2015.5.0.0-201505191642.tar.gz ... (0.0s)
         Installing archive ... (1.1s)
----> Liberty buildpack is done creating the droplet
----> Uploading droplet (130M)
```





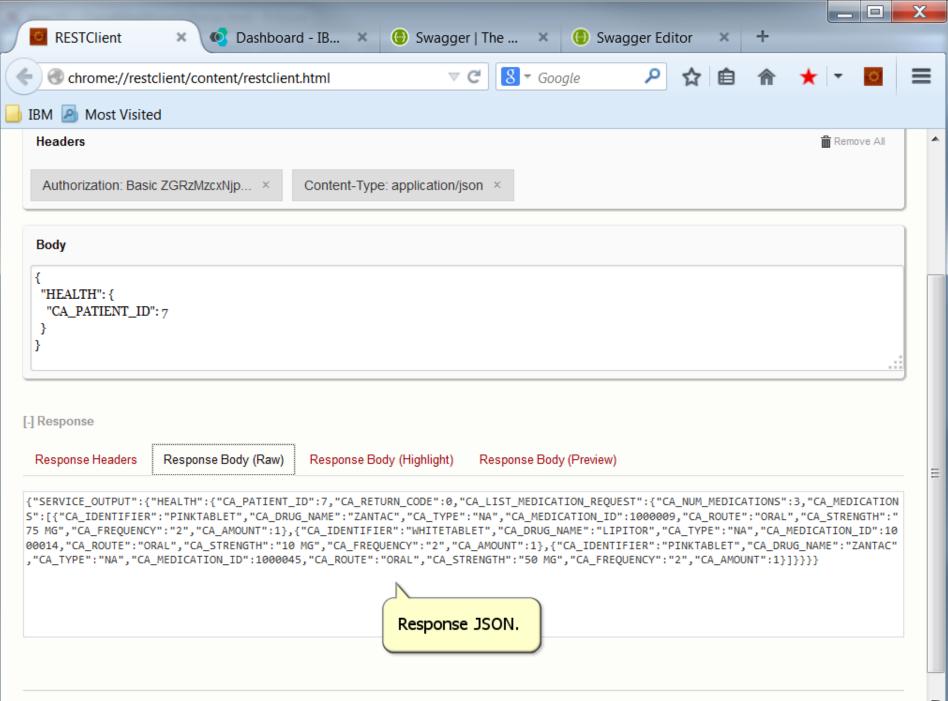
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Headers	💼 Remove All	
Authorization: Basic ZGRzMzcxNjp	o × Content-Type: application/json ×	
Body		
<pre>"CA_PATIENT_ID": 7 } [-] Response Response Headers Response Bo</pre>	dy (Raw) Response Body (Highlight) Response Body (Preview)	
2.Connection:3.Content-Type:4.Date:	200 OK Keep-Alive application/json Tue, 02 Jun 2015 00:49:19 GMT chunked	

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	Response I	Headers         Response Body (Raw)         Response Body (Highlight)         Response Body (Preview)         Response JSON					
		(continued).					
	1. {						
	2.	"SERVICE_OUTPUT":					
	3.	{					
	4.	"HEALTH":					
	5.						
	6.	"CA_PATIENT_ID": 7,					
	7.	"CA_RETURN_CODE": 0, "CA_LIST_MEDICATION_REQUEST":					
	o. 9.	r r r r r r r r r r r r r r r r r r r					
	10.	"CA NUM MEDICATIONS": 3,					
	11.	"CA_MEDICATIONS":					
	12.		Ξ				
	13.	{					
	14.	"CA_IDENTIFIER": "PINKTABLET",					
	15.	"CA_DRUG_NAME": "ZANTAC",					
	16.	"CA_TYPE": "NA",					
	17.	"CA_MEDICATION_ID": 1000009,					
	18.	"CA_ROUTE": "ORAL",					
	19.	"CA_STRENGTH": "75 MG",					
	20.	"CA_FREQUENCY": "2",					
	21.	"CA_AMOUNT": 1					
	22.	},					
	23.						
	24. 25.	"CA_IDENTIFIER": "WHITETABLET", "CA_DRUG_NAME": "LIPITOR",					
	25.	"CA_TYPE": "NA",					
	20.	"CA MEDICATION ID": 1000014,	-				
	27.	CA_PILDICATION_ID : 1000014)					

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🔒 IBM 🧕 N	Most Visited		
21.		"CA_AMOUNT": 1	<b>^</b>
22.	},		Response JSON
23.	{		(continued).
24.		"CA_IDENTIFIER": "WHITETABLET",	
25.		"CA_DRUG_NAME": "LIPITOR",	
26.		"CA_TYPE": "NA",	
27.		"CA_MEDICATION_ID": 1000014,	
28.		"CA_ROUTE": "ORAL",	
29.		"CA_STRENGTH": "10 MG",	
30.		"CA_FREQUENCY": "2",	
31.		"CA_AMOUNT": 1	
32.	},		
33.	{		
34.		"CA_IDENTIFIER": "PINKTABLET",	
35.		"CA_DRUG_NAME": "ZANTAC",	
36.		"CA_TYPE": "NA",	
37.		"CA_MEDICATION_ID": 1000045,	
38.		"CA_ROUTE": "ORAL",	
39.		"CA_STRENGTH": "50 MG",	
40.		"CA_FREQUENCY": "2",	
41.		"CA_AMOUNT": 1	
42.	}		
43.	]		=
44.	}		
45.	}		
46.	}		
47.}			

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## **Thank You!**



## **Mobile App SOR Asset Integration Overview**

