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Article

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## Run your local IRIS http endpoints as https on the internet from your env

By default InterSystems IRIS expose your endpoints using http, but can be necessary run https from your dev env and/or get public internet access to your app. You can buy or get a certificate and config a gateway, spending many hours or use a great public service called ngrok. Follow the steps:

1 - Run your app, I will use FHIR template as sample, see:

1.1 download the app: git clone <https://github.com/intersystems-community/iris-fhir-template.git>

1.2 go to the app dir: cd iris-fhir-template

1.3 run the app: docker-compose up -d

1.4 get access to the endpoint from postman or other api client: <http://localhost:32783/fhir/r4/Patient/1>

2 - You can see the endpoint runs only localhost and using http. Now we use ngrok to resolve this:

2.1 - Access <https://ngrok.com/>, create a free account and login in the ngrok. You can see many options, including use ngrok into your yml files.

2.2 - Into ngrok go to Setup & Installation (<https://dashboard.ngrok.com/get-started/setup>) and download the ngrok specific to your OS.

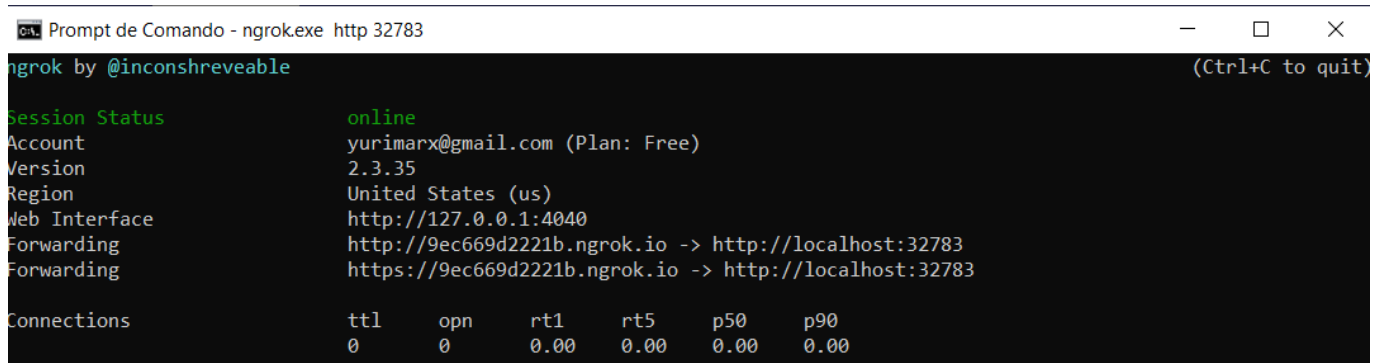
2.3 - Unzip the file to your app root path (or any path, like your applications folder).

2.4 - Authenticate your client to the ngrok server using instructions in the Authentication > Your Authtoken (<https://dashboard.ngrok.com/auth/your-authtoken>). In my case (windows) I ran:  
ngrok.exe authtoken 1iCGsc8NEmHTjfe43wmqavSHT2y7T.....

2.5 - Ngrok save your authtoken in your home directory, so next times will be not necessary authenticate again, only use the service.

2.6 - Now, you need to know your http port, in my case is 32783 (<http://localhost:32783>). Run:  
ngrok.exe http 32783

2.7 - You can see your public https or http address to your endpoint:



```
Prompt de Comando - ngrok.exe http 32783
ngrok by @inconshreveable (Ctrl+C to quit)

Session Status      online
Account             yurimarx@gmail.com (Plan: Free)
Version             2.3.35
Region              United States (us)
Web Interface        http://127.0.0.1:4040
Forwarding           http://9ec669d2221b.ngrok.io -> http://localhost:32783
Forwarding           https://9ec669d2221b.ngrok.io -> http://localhost:32783

Connections         ttl    opn    rt1    rt5    p50    p90
                   0      0      0.00   0.00   0.00   0.00
```

2.8 - Test your new endpoint in the postman or any rest client, in my case  
<https://9ec669d2221b.ngrok.io/fhir/r4/Patient/1>.

2.9 - Ngrok give you many other use case scenarios (webhook, ssh, etc), see: <https://dashboard.ngrok.com/get-started/tutorials>.

[#REST API](#) [#Security](#) [#InterSystems IRIS](#)

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