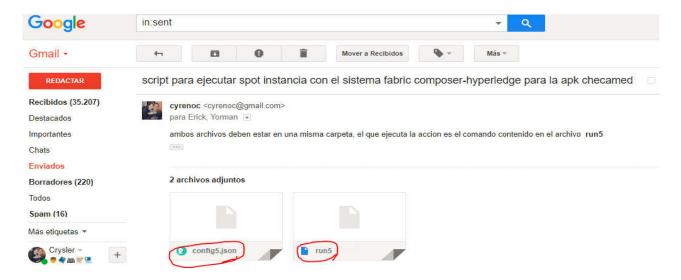


**VERSION 1.0** 



## Descargar los 2 archivos enviados al email:



Abrimos el archivo run5 y copiamos el contenido y lo pegamos en la consola, y ejecutamos:

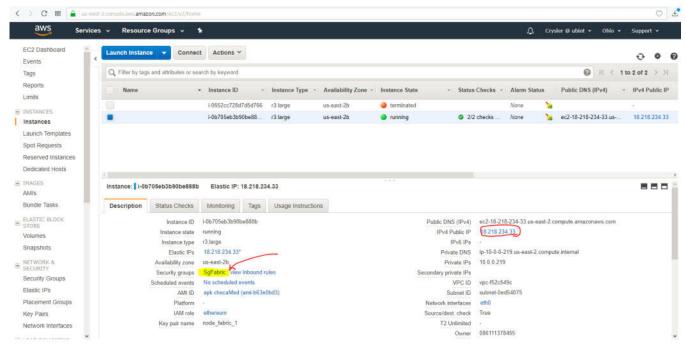


```
C:\Users\cyrs\aws>aws ec2 request-spot-instances --spot-price "0.2" --instance-count 1 --type "one-time" --launch-sp ecification file://config5.json

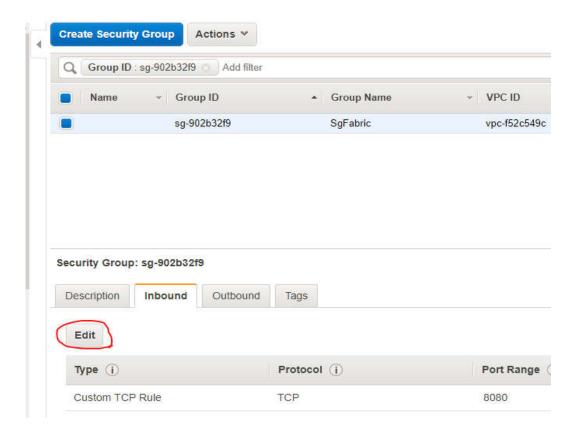
| RequestSpotInstances |
| RequestSpotInstances |
| SpotInstanceRequests |
| ProductDescription | Linux/UNIX |
| SpotInstanceRequest |
| ProductDescription | Linux/UNIX | |
| SpotPrice | 0.200000 |
| SpotPrice | 0.200000 |
| State | 0.pen |
| Type | 0.ne-time |
| ImageId | mai.b63cebd3 |
| InstanceType | mai.b63cebd3 |
| InstanceType | mai.b63cebd3 |
| Placement | DeviceIndex | Placement |
| Ann | arn:aws:iam::080111378455:instance.profile/ethereum |
| DeviceIndex | 0 |
| NetworkInterfaces | 0 |
| NetworkInterfaced | eni-89bc4bdd |
| NetworkInterfaced | eni-89bc4bdd |
| OroupName | Gefault |
| GroupName | Gefault |
| Code | pending-evaluation |
| Nessage | Your Spot request has been submitted for review, and is pending evaluation. |
| UpdateTime | 2018-01-28123:9:10.0002
```

Nos vamos a AWS a dar accedo por SSH a nuestra ip, para poder ejecutar los comandos del fabric (se creó un script para tal fin).La instancia tarda en aparecer de 1 a 2 min.





Presionamos en **SgFabric** y nos aparecerá una sección donde debemos asegurar nuestra ip presionando en **Edit**:





Type (i)	Protocol (i)	Port Range (i)	Source (i)	Description (i)	
Custom TCP F ~	TCP	8080	Custom ~ 200.84.251.214/32	e.g. SSH for Admin Desktop	8
Custom TCP F >	TCP	8000	Custom ~ 186.167.245.79/32	e.g. SSH for Admin Desktop	8
SSH ~	TCP	22	My IP 190.199.109.248/32	e.g. SSH for Admin Desktop	8
SSH ~	TCP	22	Custom 190.199.109.248/32	e.g. SSH for Admin Desktop	8
Custom TCP F ~	TCP	4200	Anywhere 0.0.0.0/0	e.g. SSH for Admin Desktop	8
Custom TCP F >	TCP	4200	My IP	e.g. SSH for Admin Desktop	8
Custom TCP F ~	TCP	3000	Custom ~ 0.0.0.0/0	e.g. SSH for Admin Desktop	8
Custom TCP F >	TCP	3000	Custom V ::/0	e.g. SSH for Admin Desktop	8
		will result in the edited r	ule being deleted and a new rule created with the ne e can be created.	w details. This will cause traffic that depends	on tha

Luego que aparezca nuestra ip salvamos y nos vamos a una consola para acceder desde SSH ssh -i "node\_fabric\_1.pem" ubuntu@18.218.234.33

```
■ ubuntu@ip-10-0-0-219: ~

                                                                              ×
Using username "ubuntu".
Authenticating with public key "imported-openssh-key"
Welcome to Ubuntu 16.04.2 LTS (GNU/Linux 4.4.0-1049-aws x86 64)
 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
 * Support:
                   https://ubuntu.com/advantage
  Get cloud support with Ubuntu Advantage Cloud Guest:
   http://www.ubuntu.com/business/services/cloud
121 packages can be updated.
0 updates are security updates.
Last login: Sun Jan 28 23:12:28 2018 from 190.199.109.248
ubuntu@ip-10-0-0-219:~$
```



## Aplicamos sudo su y vamos a la carpeta llamada medicine-network

```
root@ip-10-0-0-219: /home/ubuntu/medicine-network
Using username "ubuntu".
Authenticating with public key "imported-openssh-key"
Welcome to Ubuntu 16.04.2 LTS (GNU/Linux 4.4.0-1049-aws x86 64)
 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
                 https://ubuntu.com/advantage
 * Support:
 Get cloud support with Ubuntu Advantage Cloud Guest:
   http://www.ubuntu.com/business/services/cloud
121 packages can be updated.
O updates are security updates.
Last login: Sun Jan 28 23:12:28 2018 from 190.199.109.248
ubuntu@ip-10-0-0-219:~$ sudo su
root@ip-10-0-0-219:/home/ubuntu# cd medicine-network/
root@ip-10-0-0-219:/home/ubuntu/medicine-network#
```

En este punto ejecutamos el script ./correrSistema.sh

```
root@ip-10-0-0-219:/home/ubuntu/medicine-network# ./correrSistema.sh
root@ip-10-0-0-219:/home/ubuntu/medicine-network# nohup: nohup: appending output
to 'nohup.out'appending output to 'nohup.out'
nohup: appending output to 'nohup.out'

root@ip-10-0-0-219:/home/ubuntu/medicine-network#
```

Y esperamos que se ejecute la base que son varios docker y registros en la base de datos eso es en background de 30 seg a 1min.

Luego ejecutamos:

## composer network deploy -a dist/medicine-network.bna -p hlfv1 -i PeerAdmin -s randomString

y debe aparecernos un chulo de que todo va bien



Y por ultimo ejecutamos este comando tal cual:

sudo nohup composer-rest-server -p hlfv1 -n medicine-network -i admin -s adminpw -N required -w true &

```
root@ip-10-0-0-219:/home/ubuntu/medicine-network# sudo nohup composer-rest-server -p hlfv1 -n medicine-network -i admin -s adminpw
-N required -w true &
[1] 3161
root@ip-10-0-0-219:/home/ubuntu/medicine-network# nohup: ignoring input and appending output to 'nohup.out'
root@ip-10-0-0-219:/home/ubuntu/medicine-network#
```

En este punto podemos presionar enter para soltar la consola.

Luego esperamos unos 10 seg, pasado este tiempo vamos al navegador y entramos a la siguiente ruta:

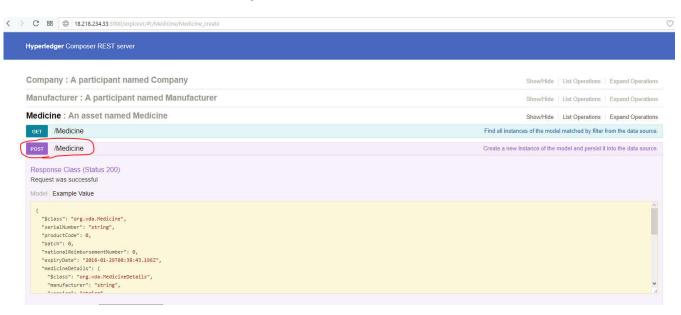
http://18.218.234.33:3000/explorer/

si se siguieron estos pasos y todo va bien debe mostrarnos en el navegador lo siguiente:



```
C 88 ( 18.218.234.33:3000/explorer/
    Hyperledger Composer REST server
     Company: A participant named Company
     Manufacturer: A participant named Manufacturer
     Medicine: An asset named Medicine
     OrderManufacturer : An asset named OrderManufacturer
     OrderPharmacy : An asset named OrderPharmacy
     OrderWholesaler: An asset named OrderWholesaler
     Pharmacy: A participant named Pharmacy
     PlaceOrderManufacturer: A transaction named PlaceOrderManufacturer
     PlaceOrderPharmacy: A transaction named PlaceOrderPharmacy
     PlaceOrderWholesaler: A transaction named PlaceOrderWholesaler
     PrivateMedicineTransfer: A transaction named PrivateMedicineTransfer
     PrivateOwner: A participant named PrivateOwner
     SetupDemo: A transaction named SetupDemo
     System: General business network methods
     UpdateOrderStatusManufacturer: A transaction named UpdateOrderStatusManufacturer
     UpdateOrderStatusPharmacy : A transaction named UpdateOrderStatusPharmacy
     UpdateOrderStatusWholesaler: A transaction named UpdateOrderStatusWholesaler
```

## Nos vamos a medicine, al área del post



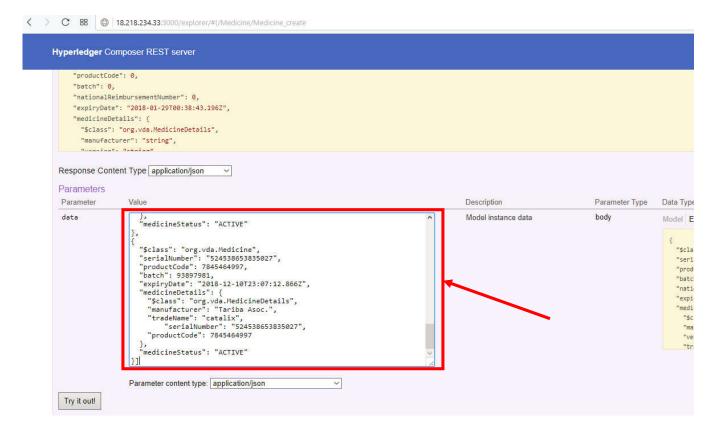


Y agregamos las medicinas de pruebas, copiamos y pegamos, esto si o si se debe agregar cada vez que se reinicie el servidor, ya que hasta el sol de hoy no he podido dejar la data guardada permanentemente:

```
"serialNumber": "112680014088591",
 "productCode": 1126811409,
 "batch": 12641333,
 "expiryDate": "2017-08-10T22:51:00.016Z",
 "medicineDetails": {
  "$class": "org.vda.MedicineDetails",
  "manufacturer": "Pfizer",
  "tradeName": "Lipitor",
          "serialNumber": "112680014088591",
   "productCode": 1126811409
 },
"medicineStatus": "ACTIVE"
 "$class": "org.vda.Medicine",
 "serialNumber": "112680014088592",
 "productCode": 1126811409,
 "batch": 12641333,
 "expiryDate": "2017-08-10T22:51:00.016Z",
 "medicineDetails": {
   "$class": "org.vda.MedicineDetails",
  "manufacturer": "Pfizer",
  "tradeName": "Lipitor"
          "serialNumber": "112680014088592".
  "productCode": 1126811409
 },
"medicineStatus": "ACTIVE"
},
 "$class": "org.vda.Medicine",
 "serialNumber": "504538653835017",
"productCode": 7845464997,
 .
"batch": 93897981,
 "expiryDate": "2018-12-10T23:07:12.866Z",
 "medicineDetails": {
   "$class": "org.vda.MedicineDetails",
  "manufacturer": "El Nula Corp.",
  "tradeName": "Yanuvya",
          "serialNumber": "504538653835017",
   "productCode": 7845464997
 "medicineStatus": "ACTIVE"
 "$class": "org.vda.Medicine",
 "serialNumber": "504538653835027", 
"productCode": 7845464997,
 "batch": 93897981,
 "expiryDate": "2018-12-10T23:07:12.866Z",
 "medicineDetails": {
  "$class": "org.vda.MedicineDetails",
  "manufacturer": "El Nula Corp.",
  "tradeName": "Mayunia",
"serialNumber": "504538653835027",
   "productCode": 7845464997
 "medicineStatus": "ACTIVE"
```



```
"$class": "org.vda.Medicine",
 "serialNumber": "509538653835027",
"productCode": 7845464997,
 "batch": 93897981,
 "expiryDate": "2016-12-10T23:07:12.866Z",
 "medicineDetails": {
   "$class": "org.vda.MedicineDetails",
  "manufacturer": "Tariba Asoc.",
  "tradeName": "catalix",
          "serialNumber": "509538653835027",
   "productCode": 7845464997
 "medicineStatus": "ACTIVE"
 "$class": "org.vda.Medicine",
 "serialNumber": "524538653835027",
 "productCode": 7845464997,
 "batch": 93897981,
 "expiryDate": "2018-12-10T23:07:12.866Z",
 "medicineDetails": {
   "$class": "org.vda.MedicineDetails",
  "manufacturer": "Tariba Asoc.",
  "tradeName": "catalix",
          "serialNumber": "524538653835027",
  "productCode": 7845464997
 "medicineStatus": "ACTIVE"
}]
```



Y presionamos en el boton Try it out!



Esperamos 30 seg. Y luego de que se haya ejecutado nos movemos abajo hasta ver un 200 que significa que todo está bien del lado del servidor:

```
Hyperledger Composer REST server
         "$class": "org.vda.Medicine",
         "serialNumber": "112680014088591",
         "productCode": 1126811409,
         "batch": 12641333,
         "expiryDate": "2017-08-10T22:51:00.016Z",
         "medicineDetails": {
          "$class": "org.vda.MedicineDetails",
          "manufacturer": "Pfizer",
          "tradeName": "Lipitor",
          "productCode": 1126811409,
          "serialNumber": "112680014088591"
        "medicineStatus": "ACTIVE"
      },
        "$class": "org.vda.Medicine",
         "serialNumber": "112680014088592",
         "productCode": 1126811409,
 Response Code
 Response Headers
```

Ya estamos listos para probar la apk del lado del cliente con el teléfono Android.