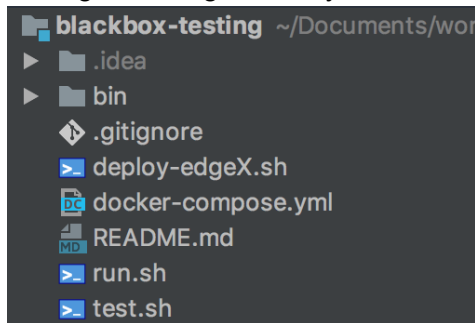


This document describe how to use Postman(GUI) to run Edegex blockbox tesing on pc .

Prerequisite

1. Clone blockbox test script , <https://github.com/edgexfoundry/blackbox-testing>
2. Install postman app , <https://www.getpostman.com/apps>
3. Startup Edgex , <https://wiki.edgexfoundry.org/display/FA/Get+EdgeX+Foundry++Users>
4. Copy test script to edgex-mongo for import test data

- a. Change working directory to "blackbox-testing" you had download

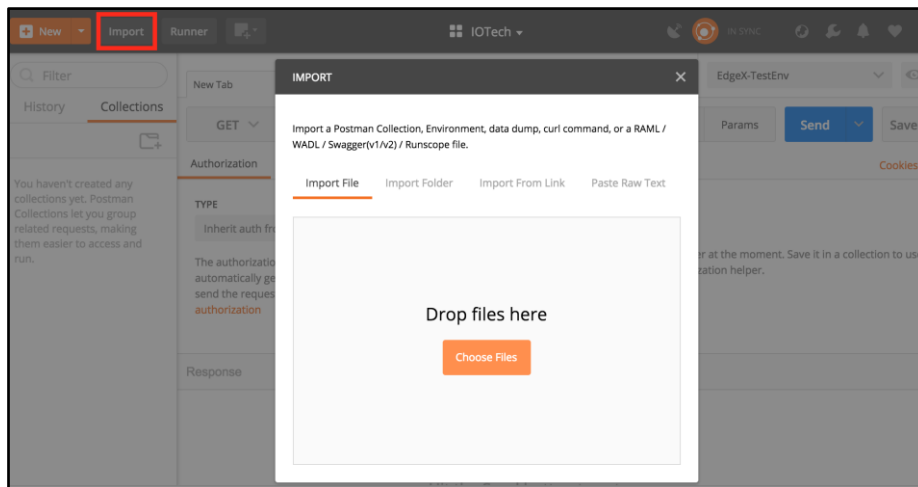


- b. execute command , `docker cp ./bin/postman-test/. edgex-mongo:/postman-test`

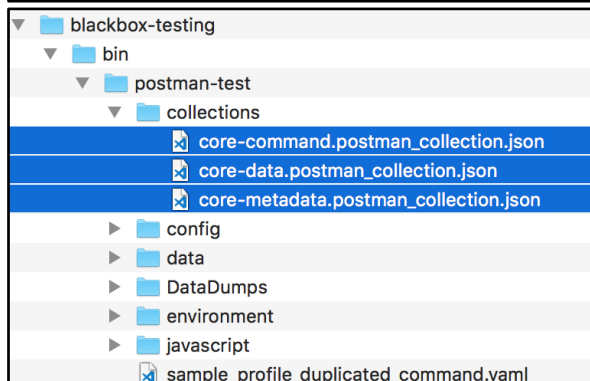
- c. check execute result , `docker exec -t edgex-mongo /bin/bash -c "ls /postman-test"`

```
Bruces-MacBook-Pro:~ bruce$ docker exec -t edgex-mongo /bin/bash -c "ls /postman-test"
DataDumps    data        sample_profile.yaml
collections  environment sample_profile_duplicated_command.yaml
config       javascript  sample_profile_empty.yaml
```

5. Import test collection into Postman

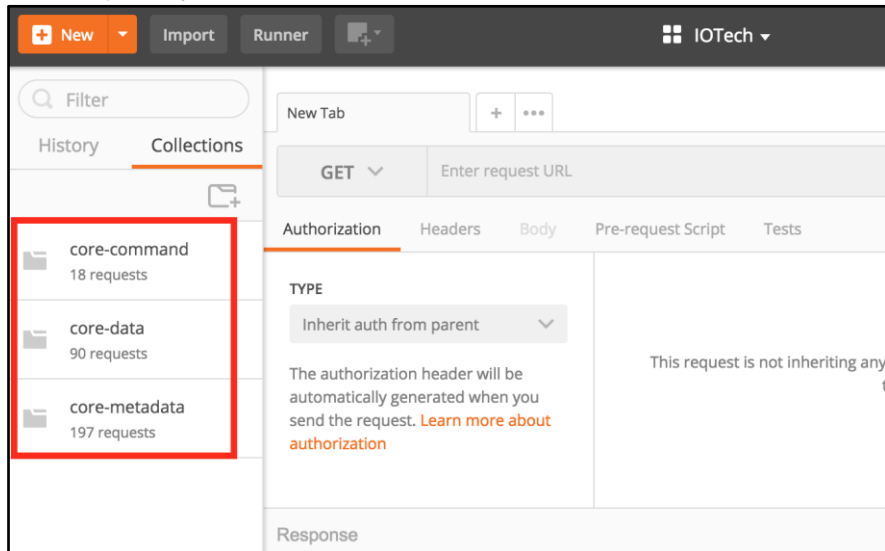


- a.

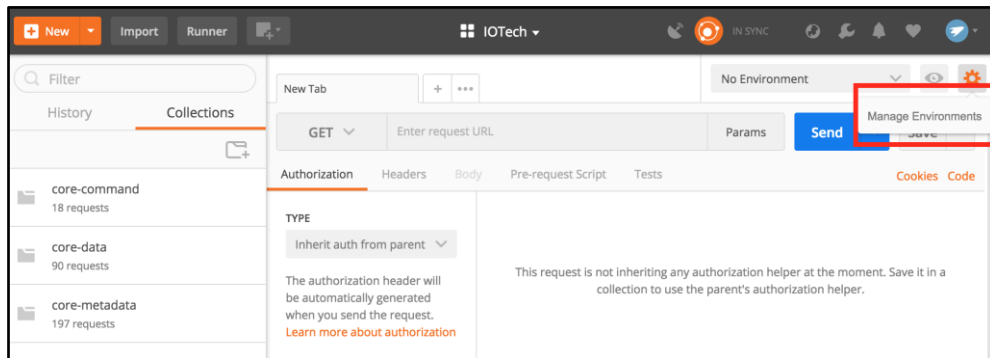


- b.

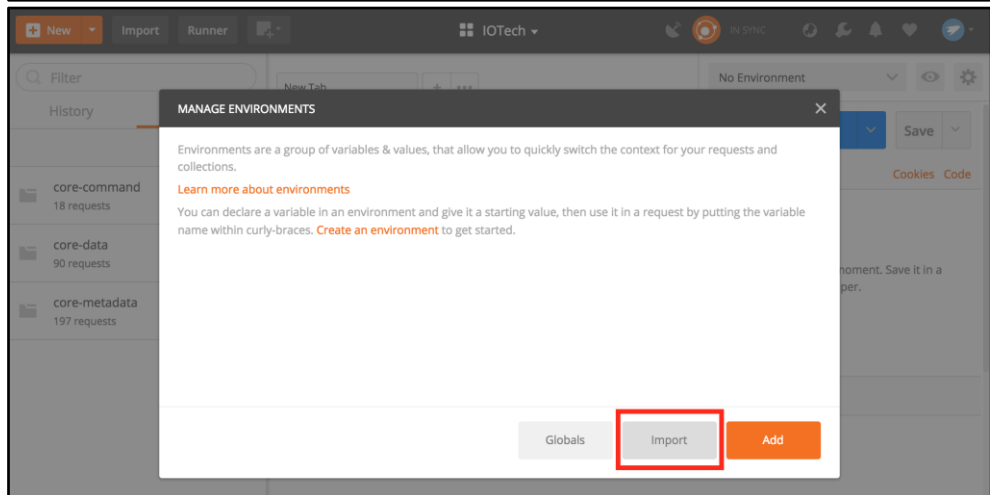
c. after import , you will see here has three Collections on Postman



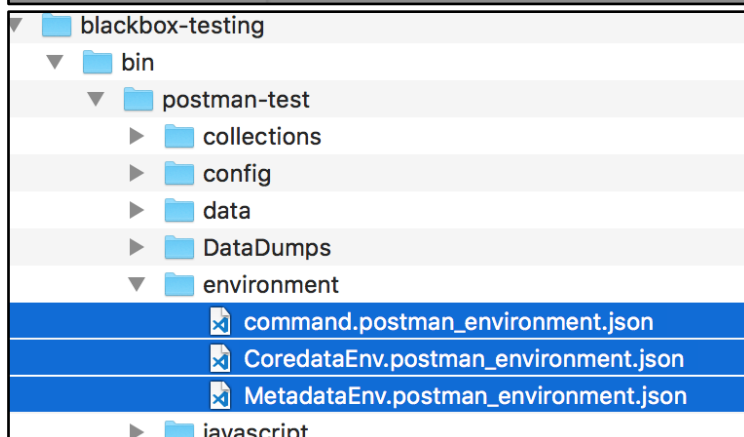
6. Import test environment variable into Postman



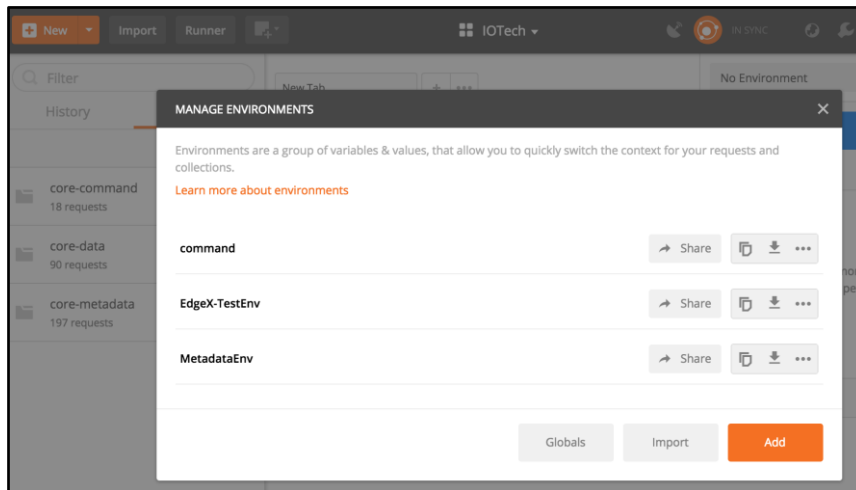
a.



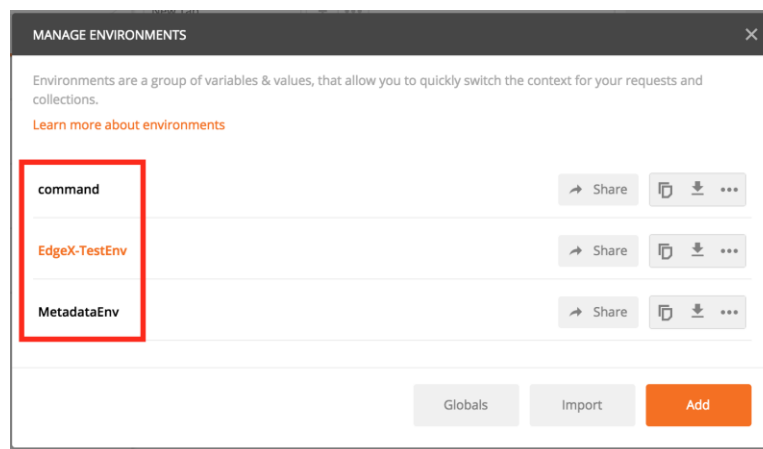
b.



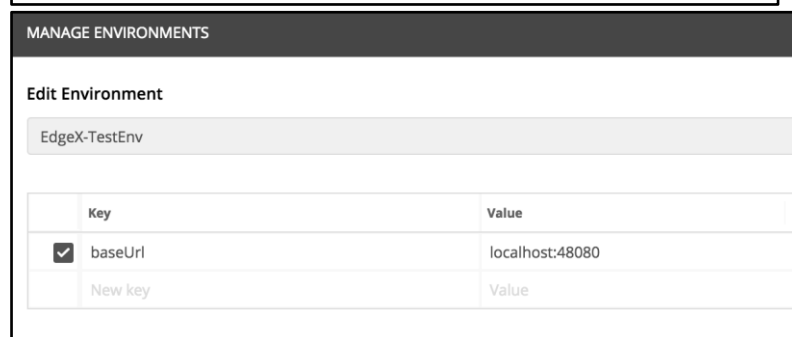
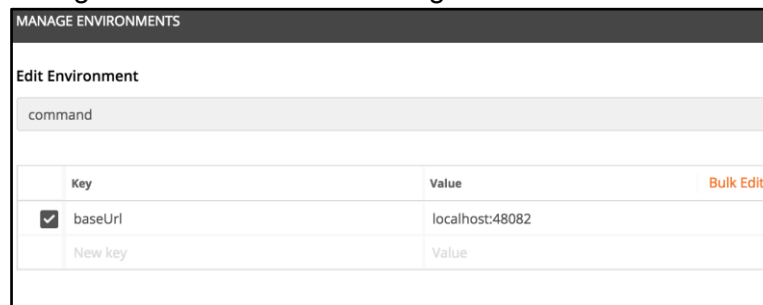
c.



- d.
- e. Cause we will test api by Postman , so we should modify environment to meet our requirement



- i.
- ii. change three environment setting to "localhost"



MANAGE ENVIRONMENTS

Edit Environment

MetadataEnv

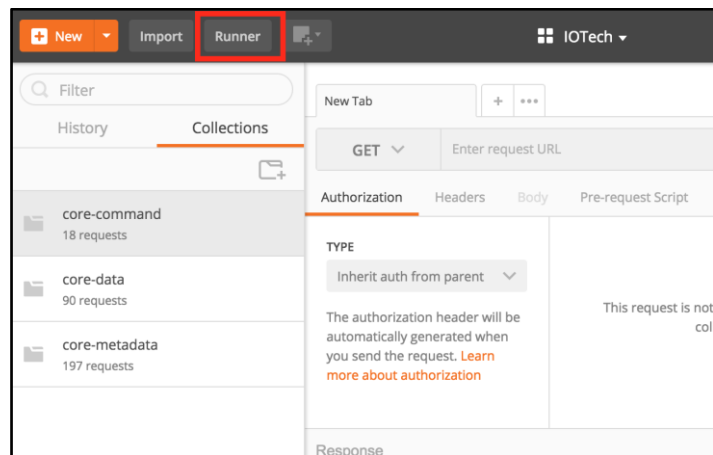
	Key	Value
<input checked="" type="checkbox"/>	baseUrl	localhost:48081
	New key	Value

7. ...

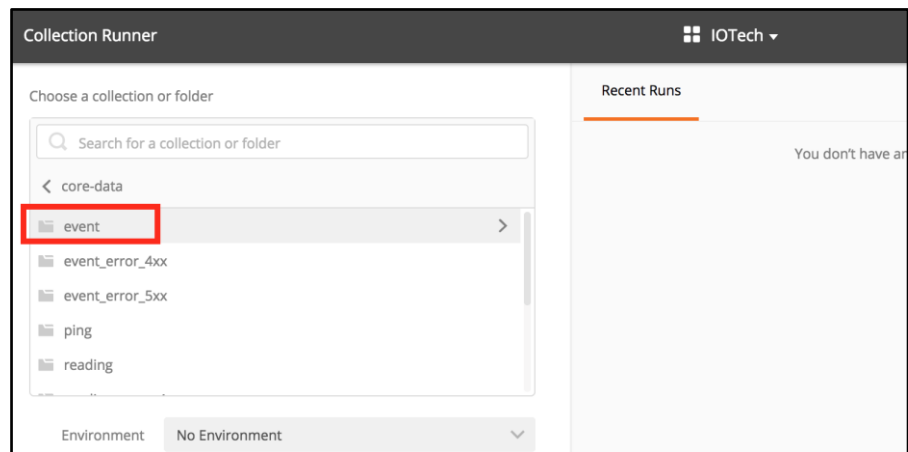
Test service's api by Postman

For example , when we want to test coredata's event api , then how to run test by Postman .

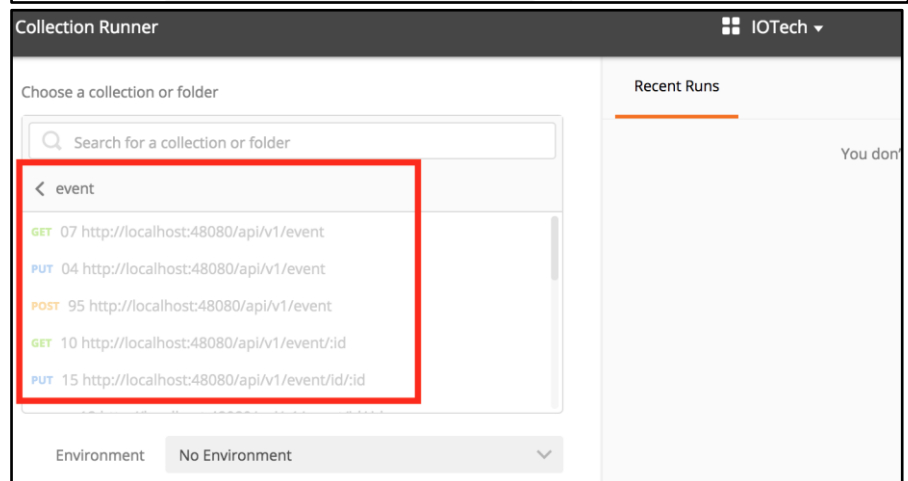
1. Import coredata's test data , run below command
 - a. `docker exec -t edgex-mongo /bin/bash -c "mongoimport -d coredata -c event --file /postman-test/DataDumps/coredata/eventDb.json && mongoimport -d coredata -c reading --file /postman-test/DataDumps/coredata/readingDb.json && mongoimport -d coredata -c valueDescriptor --file /postman-test/DataDumps/coredata/valueDescriptorDb.json"`
2. Test coredata's reading api
 - a. Select Postman Runner



- i.
- b. Select test api

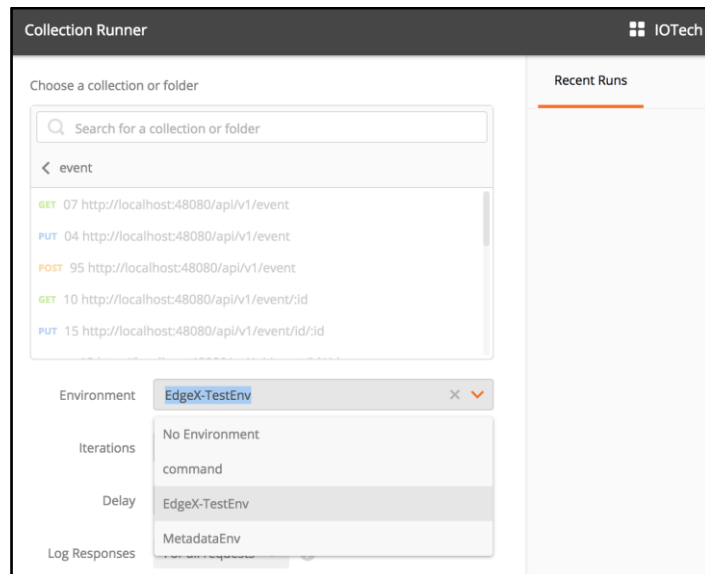


i.



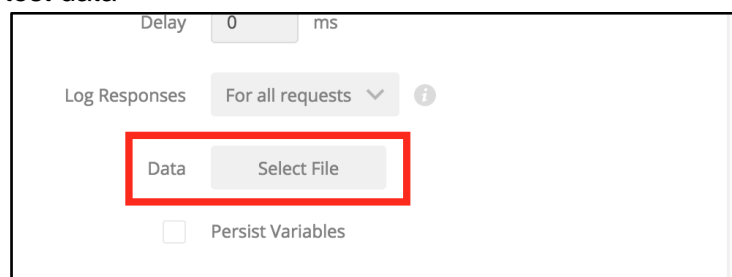
ii.

c. Select test environment variable

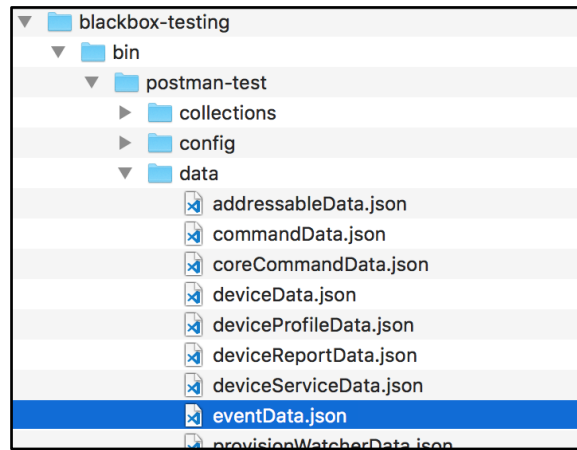


i.

d. Select test data

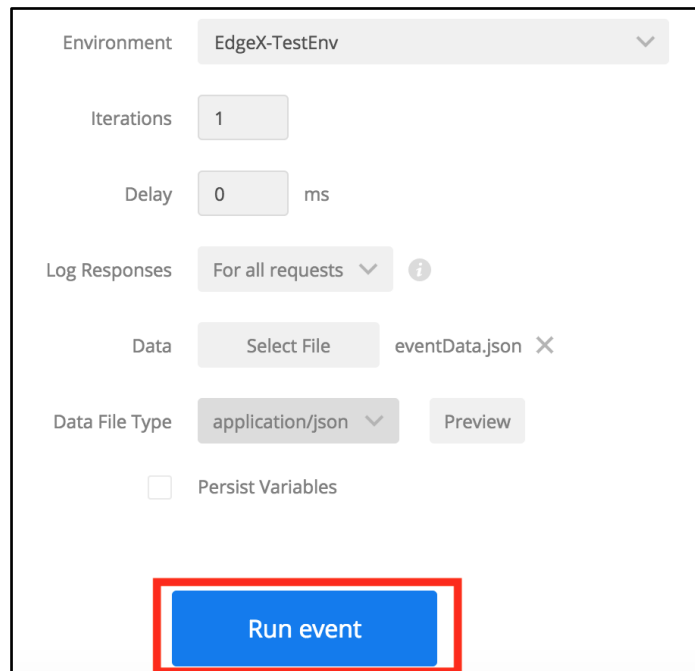


i.

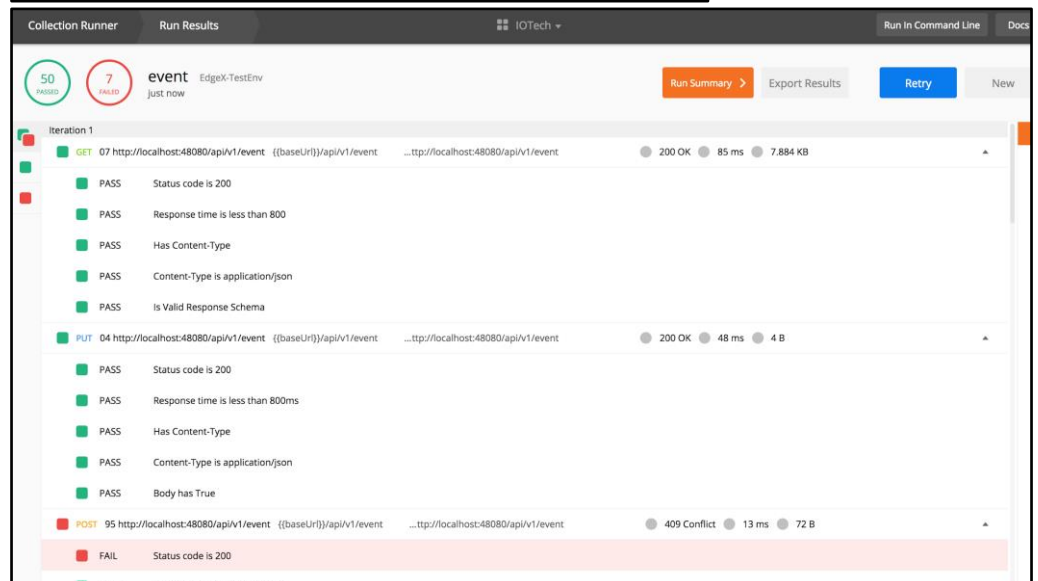


ii.

e. Run test



i.



ii.

3. After test done , flush coredata's test data , run below command

- a. `docker exec -t edgex-mongo /bin/bash -c "mongo coredata /postman-test/javascript/coredata/event.js && mongo coredata /postman-test/javascript/coredata/reading.js && mongo coredata /postman-test/javascript/coredata/valueDescriptor.js"`

Notice:

If you follow <https://wiki.edgexfoundry.org/display/FA/Get+EdgeX+Foundry+-+Users> to install Edgex , when test done , you can run below command to uninstall Edgex:

1. docker-compose down (this command will remove all container)
2. docker volume prune (this command will clean old test data)