8. AN Synchronization Tests

These are the steps that will be taken before the tests:

8.1. Backup before testing

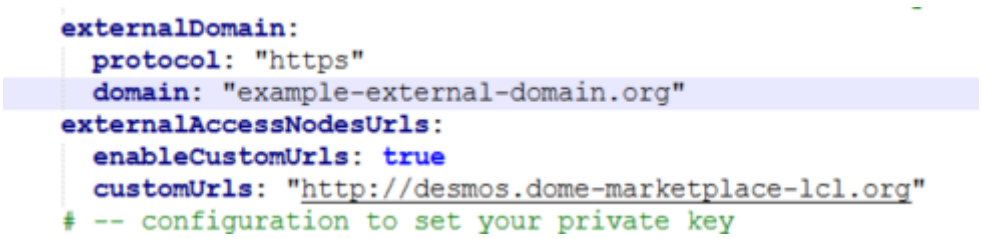
Perform a **dump backup** of the Scorpio data so we can restore it afterwards and **delete the data** of your DB. Remember to put it out of your docker or it **will disappear** if you restart your AN.

8.2. Configuration for testing

Add the **externalAccessNodesUrls** configuration **inside** the **APP block** as shown on the image below, which should be adapted for these tests. (It will be reconfigured later to point to the correct location.)

```
externalAccessNodesUrls:
  enableCustomUrls: true
  customUrls: “https://desmos.dome-marketplace-lcl.org”
```

How it should looks



8.3. Review the values configuration and Trusted Lists registry

Verify that you complete all the steps above and your machine is correctly registered in the Trusted lists

Trusted Lists github

8.4. Install AN

After doing the previous steps, be sure that you installed your AN correctly. I'm leaving these commands here in case they're helpful. Remember that you need to throw these commands inside your values.yaml directory.

```
helm dependency build
helm install myaccessnode . -f values.yaml
```

8.5. Desmos running without errors

Confirm that your desmos pod is working correctly. You could check it with

```
kubectl logs desmos-648bdbc988-pl2ft -n <your-namespace> -c desmos
```

Tests to Perform

We will perform two tests:

1. Synchronization with the blockchain
2. P2P verification

We will create a temporary entity, one on your node and another on ours, and see if it synchronizes via the blockchain.

We can do it using Postman or using the curl command by postforwarding to Scorpio:

```
kubectl port-forward svc/scorpio 9090:9090 -n marketplace
```

Or if we have access to the bae marketplace, from there; For example, this is our configured site: Bae marketplace local

```
curl --location 'http://localhost:9090/ngsi-ld/v1/entities/?type=catalog' \
--header 'Content-Type: application/json' \
--data '{
"id": "urn:catalog:MyDummyTest",
"type": "catalog",
"version": "2.5",
"lastUpdate": "2024-07-09T12:00:00Z",
"lifecycleStatus": "Launched"
}'
```

And we will validate that it has been created correctly using curl

```
curl --location 'http://localhost:9090/ngsi-ld/v1/entities/urn:catalog:MyDummyTest'
```

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