DLPS

The experiment is performed on AWS using DLPS with the below instance configuration.

Platform: Ubuntu 18.04.6 LTS

Instance type: m5.large

1. Configuration to be done on AWS.
2. Create an Elastic IP address.
3. Create the AWS Key Pair
4. Create the VPC
5. Create a Subnet and attach it to the created VPC.
6. Create a Security group and attach it to the created VPC.
   1. Inbound rules should be allowed for connecting to the below services with the given port range as a custom TCP type.
      1. Tessera: 9000
      2. Raft: 50000
      3. Quorum: 21000
7. Steps to run the experiment.
8. Creating a DLPS folder and giving permission
   1. cd /var/www/html
   2. mkdir DLPS
   3. sudo chown -R ubuntu:ubuntu /var/www/html
   4. sudo chmod -R 775 /var/www/html
9. Repository Cloning

Take the clone of all 3 repositories on AWS

* 1. git clone <https://github.com/DLPS-Framework/ChainLab.git>
  2. git clone <https://github.com/DLPS-Framework/BlockchainFormation.git>
  3. git clone <https://github.com/DLPS-Framework/DAppFormation.git>

1. Configure AWS credentials.
   1. aws configure
2. Install Python3
3. Create a virtual environment.
4. Create package.

Create the Blockchain package and DApp package using the below command in the respective folder.

* 1. python setup.py sdist bdist\_wheel

1. Running the experiment
   1. Move to the ChainLab folder.
   2. Install necessary packages.
   3. With the config file provided in the individual directories in the same GitHub repository, run the experiment: python src/run.py --config.json
2. Experiment results would be available in the ChainLab folder depending on the location provided in the config file.