Blockchain Automation Framework lab

Blockchain Automation Framework (BAF) is a Hyperledger Labs project that is creating an automation framework for rapidly and consistently deploying production-ready DLT platforms. Learn more in this short 7 minute video.

You are welcome to get involved!

Hyperledger, as part of the Linux Foundation, is an open source community and anyone who is interested is welcome to use the code, talk to others in the community and make contributions to this project.

Some useful links to get you started:
- Blockchain Automation Framework GitHub wiki
- Blockchain Automation Framework technical documentation
- Blockchain Automation Framework chat channel
- Blockchain Automation Framework Learning map

Let us make your contribution journey easier.

First become a user - deploy your DLT network using BAF

Use the following flow to navigate the available resources.

How to Get Involved

This is an open source project and anyone is welcome to get involved and we will be happy to see you contribute.

1) Read our Contribution guide
2) Look through our Good First Issue list below
3) Choose an issue that you want to pick and comment on it so that a Maintainer can assign you to that task
4) Follow the Pull Request process and raise a PR
5) The code will be reviewed by our Maintainers and merged

Have any questions?

If you have any questions about using or contributing to the project, join our chat channel. Feel free to introduce yourself and ask your questions at:
- #blockchain-automation-framework

New to Hyperledger? You’ll need a Linux Foundation ID (LFID) to edit our wiki pages and chat on Hyperledger channels. Here’s how to get your LFID.

Do you want to use BAF for clients? Would you like to collaborate on the roadmap, architecture, automation or documentation to make it better, more useful?

We will be excited to take your interest forward. Follow the Contact Us to connect with the current Maintainers of the project.

The above pathway would help you to deploy a DLT/Blockchain network on a chosen cloud infrastructure using BAF.

Now that you have used it, you can have a look at a list of “Good First Issues” and start contributing. We will be excited to see you contribute!!!!
Good First Issues

Take a look at the good first issues below or on our Github issue tracker. If there is an issue you are interested in, simply comment on it so that a Maintainer can assign you to that task.

<table>
<thead>
<tr>
<th>Issue Description</th>
<th>Label(s)</th>
<th>Open/Closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrate Ambassador proxy certificates with PKI-tool certificates for Corda Enterprise</td>
<td>Enterprise-Corda, good-first-issue</td>
<td>1 Open</td>
</tr>
<tr>
<td>Add Quorum express-app image build in CircleCI</td>
<td>quorum, good-first-issue</td>
<td>0 Closed</td>
</tr>
<tr>
<td>Add baf-build image build in Circle CI</td>
<td>good-first-issue</td>
<td>3 Open</td>
</tr>
<tr>
<td>Add Indy image build in CircleCI</td>
<td>indy, good-first-issue</td>
<td>0 Closed</td>
</tr>
<tr>
<td>Add Corda image build in circle ci</td>
<td>good-first-issue</td>
<td>0 Closed</td>
</tr>
<tr>
<td>Add Quorum smartcontract static tests in CircleCI</td>
<td>quorum, good-first-issue</td>
<td>0 Closed</td>
</tr>
<tr>
<td>Add Fabric chaincode static tests in Github Actions</td>
<td>fabric, good-first-issue</td>
<td>1 Open</td>
</tr>
<tr>
<td>Add Application molecule tests in CircleCI</td>
<td>good-first-issue</td>
<td>0 Closed</td>
</tr>
<tr>
<td>Add Identity-app molecule tests</td>
<td>indy, molecule-test</td>
<td>0 Closed</td>
</tr>
<tr>
<td>Add Supplychain-app molecule tests</td>
<td>molecule-test, good-first-issue</td>
<td>0 Closed</td>
</tr>
</tbody>
</table>
> Make docker creds section in network. yaml as optional in Quorum
   [good-first-issue] quorum
   #617 opened Apr 24, 2020 by jagpreetsinghsasan

> Make docker creds section in network. yaml as optional in Hyperledger Indy
   [good-first-issue] indy
   #616 opened Apr 24, 2020 by jagpreetsinghsasan

> Make docker creds section in network. yaml as optional in R3 Corda
   [good-first-issue] corda
   #615 opened Apr 24, 2020 by jagpreetsinghsasan
- Make docker creds section in network.yaml as optional in Hyperledger Fabric
  - ![fabric](https://github.com/hyperledger/fabric/issues/613)
  - Good-first-issue
  - Created by jagpreetsinghsasan on Apr 24, 2020

- Manually deploy Hyperledger Besu on kubernetes cluster using the charts for Clique and Ethash
  - ![besu](https://github.com/hyperledger/besu/issues/512)
  - Good-first-issue
  - Created by suvajit-sarkar on Mar 30, 2020

- Create crypto and chart for deploying hyperledger besu node with ethash consensus mechanism
  - ![besu](https://github.com/hyperledger/besu/issues/511)
  - Good-first-issue
  - Created by suvajit-sarkar on Mar 30, 2020

- Create crypto and chart for deploying hyperledger besu node with clique consensus mechanism
  - ![besu](https://github.com/hyperledger/besu/issues/510)
  - Good-first-issue
  - Created by suvajit-sarkar on Mar 30, 2020

- Run BAF Quorum IBFT+Tessera on minikube
  - ![quorum](https://github.com/hyperledger/quorum/issues/458)
  - Good-first-issue
  - Wontfix
  - Created by sownak on Mar 13, 2020

- Test private transactions with Tessera having TLS mode ON
  - ![quorum](https://github.com/hyperledger/quorum/issues/386)
  - Good-first-issue
  - Created by suvajit-sarkar on Feb 23, 2020

- Enabling Fabric platform in BAF to support hosting of multiple orderers from multiple organizations for Kafka
  - ![fabric](https://github.com/hyperledger/fabric/issues/245)
  - Good-first-issue
  - Created by jagpreetsinghsasan on Jan 16, 2020

- Update Fabric network to support Policies
  - ![fabric](https://github.com/hyperledger/fabric/issues/49)
  - Good-first-issue
  - Created by sownak on Oct 29, 2019

- Store and retrieve Vault token from Ansible secrets
  - ![shared](https://github.com/hyperledger/fabric/issues/41)
  - Good-first-issue
  - Created by sownak on Oct 29, 2019