Hyperledger Avalon

<table>
<thead>
<tr>
<th>Project</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Status</td>
<td>END OF LIFE</td>
</tr>
<tr>
<td>CII Badge</td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>Hyperledger Avalon enables privacy in blockchain transactions, moving intensive processing from a main blockchain to improve scalability and latency, and to support attested Oracles</td>
</tr>
</tbody>
</table>

⚠️ This project is currently in end of life state. Depending on your needs, please refer to one of the following projects instead:

- for core programming in enclave based confidential computation, Confidential Computing Consortium
- for using Zero Knowledge Proofs in privacy preserving blockchain transactions, Hyperledger Ursa
- for achieving privacy using offchain data channels with blockchain coordination, Hyperledger FireFly
- for similar functionality, see Private Data Objects, a Hyperledger Lab

Key Characteristics

- Hyperledger Avalon leverages the existence of a distributed ledger to:
  - Maintain a registry of the trusted workers (including their attestation info)
  - Provide a mechanism for submitting work orders from a client(s) to a worker
  - Preserve a log of work order receipts and acknowledgments
- Hyperledger Avalon uses the Off-Chain Trusted Compute Specification defined by Enterprise Ethereum Alliance (EEA) Task Force as a starting point to apply a consistent and compatible approach to all supported blockchains

Documentation

- https://github.com/hyperledger-labs/trusted-compute-framework/tree/master/docs

Project Management

- Bug tracking to be enabled at https://jira.hyperledger.org/secure/Dashboard.jspa

Repositories

- https://github.com/hyperledger/avalon

Communication

Mailing List

- avalon@lists.hyperledger.org
  - subscribe
  - messages

Chat (for questions and ephemeral discussions)

- #avalon
Meeting

- Developer Community Meeting is held biweekly on Tuesdays starting 2019-10-29. Timings for different timezones:
  - PST (UTC-7:00) 07:30 am
  - EST (UTC-4:00) 10:30 am
  - IST (UTC+5:30) 08:00 pm
  - CST (UTC+8:00) 10:30 pm
  - CET (UTC+2:00) 04:30 pm
- No meeting 2019-12-31. Next meeting 2020-01-14

History

- 2018-06-26 Incubation status initiated for Hyperledger Trusted Compute Framework with approval of the Hyperledger Technical Steering Committee and creation of a Hyperledger Labs repository
- 2018-10-03 Renamed Hyperledger Avalon and entered full-fledged active status

Complete these tasks to get started

- Configure the sidebar - remove the "Pages", "Blog", and "Space Shortcuts" sections by clicking on the '-' sign next to them until they appear as a '+' sign. Then save the changes.
- Create a Meeting Agendas and Notes page - Click the Create button in the header to get started
- Brand your Space - Click Configure Sidebar in the left panel to update space details and logo
- Set permissions - Click Space Tools in the left sidebar to update permissions and give others access (usually the only change here is to click the View option for Anonymous users)
- Label the page appropriately - For a project space, label this page project-home. For a workgroup space, label this wg-home. For a SIG space, label this SIG-home.

Recent space activity

- Ry Jones
  - Hyperledger Avalon updated Feb 04, 2022 • view change
- Tracy Kuhrt
  - Hyperledger Avalon updated Jan 24, 2022 • view change
- Ramakrishna Srinivasamurthy
  - 2021-01-28 Graphene hands-on with and without Avalon updated Mar 01, 2021 • view change
  - 2021-02-25 Hyperledger Avalon with SCONE updated Mar 01, 2021 • view change
- Rajeev Ranjan
  - 2021-01-28 Graphene hands-on with and without Avalon created Jan 29, 2021

Space contributors

- Ry Jones (40 days ago)
- Tracy Kuhrt (51 days ago)
- Ramakrishna Srinivasamurthy (380 days ago)
- Rajeev Ranjan (411 days ago)
- Pankaj Goyal (454 days ago)
- ...