

2021 Q1 Hyperledger Avalon

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Project

[Hyperledger Avalon](#)

Project Health

The project health is good. The team made a significant progress, particularly, finalizing functionality related to SGX DCAP attestation and scalable key management isolation from the workload execution. T-Systems engineers demonstrated an integration of SGX based Scone runtime with Avalon.

Divya Taori became a new project maintainer. T-Systems and Kaleido developers are planning to become project maintainers in Q2 2021.

[LF Analytics for Q4](#)

Required Information

1. [Have you switched from master to main in all your repos?](#) Not yet, planned for Q2/2021
2. [Have you implemented repolinter.json in all your repos?](#) Not yet, planned for Q2/2021

Questions/Issues for the TSC

There are no issues for the TSC currently.

Releases

Last release was done in July 2020. No new releases have been done during 2021 Q1.

The team has made a significant progress finalizing key functionality that addresses new SGX capabilities and key usages and is on-track to have a new release within following two quarters.

Overall Activity in the Past Quarter

The project development was focused on the following areas

- Completion of the worker pool implementation
- Finalize DCAP attestation support
- Key management enclave replication (final part of the worker pool scalability design)
- Secure cross-worker (Graphene) communication channel
- Multi-threading support for the key management enclave
- Multi-tenancy (dedicated worker instances per requester)
- Improved Python SDK as a separate subproject

Avalon team participated in the following activities:

- Continued regular Avalon Technical Forum calls with a good community participation
- Presented Hyperledger Avalon at Kaleido Tech Tuesday Webinar
- Continuously utilized email and rocket chat for community support

Number of Avalon presentations at the industry forums has been relatively low during last two quarters and this is clearly an area that requires a lot of attention.

Current Plans

The team is working towards release 0.7 that includes

- Scone runtime integration (including documentation and samples)
- Finalizing functionality by addressing corner cases
- Integration with K8S with emphasis on end-to-end ease of use
- Updating documentation, tutorials and examples
- Improving test coverage and CI
- Switch from master to main branch and Implement repolinter.json in all Avalon repositories

The team needs to identify more suitable industry events for a broader project enabling.

Maintainer Diversity

We welcome Swati Kasera from Wipro as a new project maintainer. Kaleido is planning to become a project maintainer and bring their cloud-native manageability expertise for blockchain and confidential computing services. T-Systems is also considering joining Avalon project as a maintainer with focus on Scone integration.

Contributor Diversity

Contributor diversity is gradually improving. We see an interest from Kaleido and contributions from T-Systems.

Additional Information

None at this time.

Reviewed By

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