

Enarx Project Review 2022



The Enarx project is currently in the sandbox stage at the Confidential Computing Consortium. This document highlights a growth plan for reaching the Incubation stage, and updates of the project information since its annual report a year ago in accordance with the CCC Technical Advisory Council.

1. Review whether any answers to the project's submission template or Technical Charter have changed, and if so, review the new answers. A representative from the project is responsible for presenting any deltas to the template answers since the last review, if any. If there are no changes, there is nothing to review here.

Official communication channels:

- Renewed website: <https://enarx.dev/>
- New blog: <https://blog.enarx.dev/>

List of new third party dependencies:

- OpenSSL: TLS and crypto library.
- wasmtime: WebAssembly runtime.
- tokio: Async for Rust.
- mio: Metal IO library for Rust.
- <https://docs.google.com/spreadsheets/d/1UKnbbGWXYLjnPZsox3zmYo59nv3XSXjePfas5E2fER0/edit#gid=0>

Release methodology:

- Enarx 0.1.0 "Alamo" (first release): October 26, 2021.
- Enarx 0.2.0 "Balmoral": February 10, 2022.
- Enarx 0.3.0: March, 2022.
- Release methodology: <https://github.com/enarx/enarx.github.io/pull/83>

2. Review the project's progression status to determine whether the project is in the stage that accurately reflects its needs and goals. For example, is it already ready to move to another progression level? Is it on track at the current level? Is any action needed from the TAC (e.g., change in or addition to any project mentor(s))? If nothing has changed significantly, there may be nothing to review here.

Governance:

- Enarx's founders (Mike and Nathaniel) launched Profian and reaffirmed their commitment to keep Enarx open (open source code, open collaboration): <https://blog.enarx.dev/enarx-and-a-new-custodian/>
- Continued collaboration with Red Hat.
- Working towards a defined governing body of 5 or more members, of which no more than 1/3 is affiliated with the same employer (Graduation stage).

Community Growth

- The contributor strength increased by 50% during the last 1 year (LFX Insights).
- Increased upstream contributions, including WASI, wasmtime (e.g. `socket_accept`), and Rust.
- Number of GitHub stars approaching 500.

Incubation Stage

- At this point, Enarx is not ready to request a vote from the TAC to move to the Incubation stage.
 - Our focus this year is to achieve "being used successfully in production by at least two independent end-user organizations".
 - Develop a growth plan and invest "in growing a diverse and inclusive community" with a "substantial ongoing flow of commits and merged contributions".
3. Review any budget allocations relevant to the project, and whether any adjustments are needed.

New hardware:

- Thinkmate Server - Intel Xeon Gold 5318S (acquired December 2021. Price \$8,679 capped at \$7,500)

Mentorship:

- Three Outreachy interns (started December 2021. Stipend of \$7,000)
- Successfully built demos and presented at OC3 (Open Confidential Computing Conference). Will also present at Open Source Festival Africa and FOSSASIA.

4. Review license scans provided by the Linux Foundation. Provide feedback on any outstanding issues and evaluate the scanning service from the project's perspective.

LFX Security:

- No license issues: all OSI Approved.
- No code issues: LFX Security doesn't support Rust (yet), so no issues found.
- 5 code secret issues: private keys for testing purposes.
- Majority of GitHub repos now using main branch (instead of master).
- Non-inclusive language: few instances of master, whitelist, abort.
- OpenSSF: <https://bestpractices.coreinfrastructure.org/en/projects/5414>