Enarx Project Review 2022

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About

- Enarx is a deployment framework for running applications in TEE instances.
- It provides a WebAssembly runtime, based on wasmtime.
- It is designed to work across silicon architectures transparently to the user.
- It currently supports Intel’s SGX and AMD’s SEV.
- It’s in the incubation stage at the CCC.

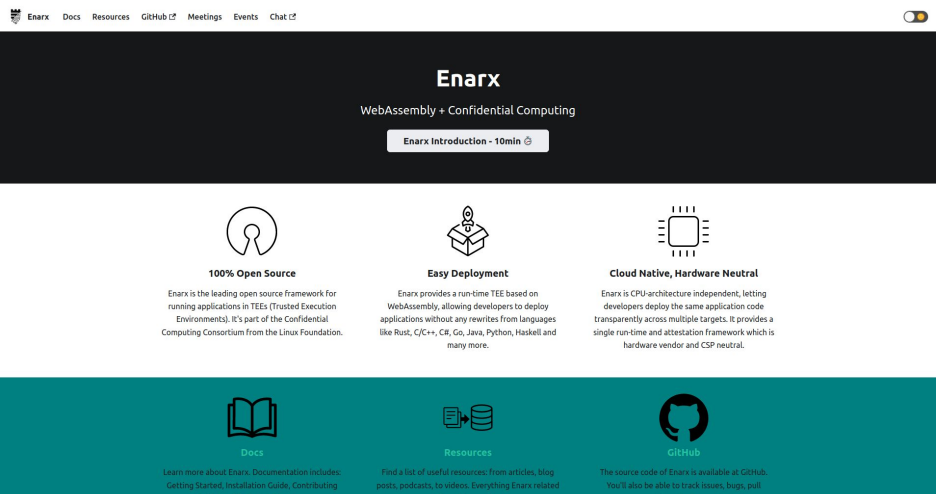
1. Changes to project’s submission template

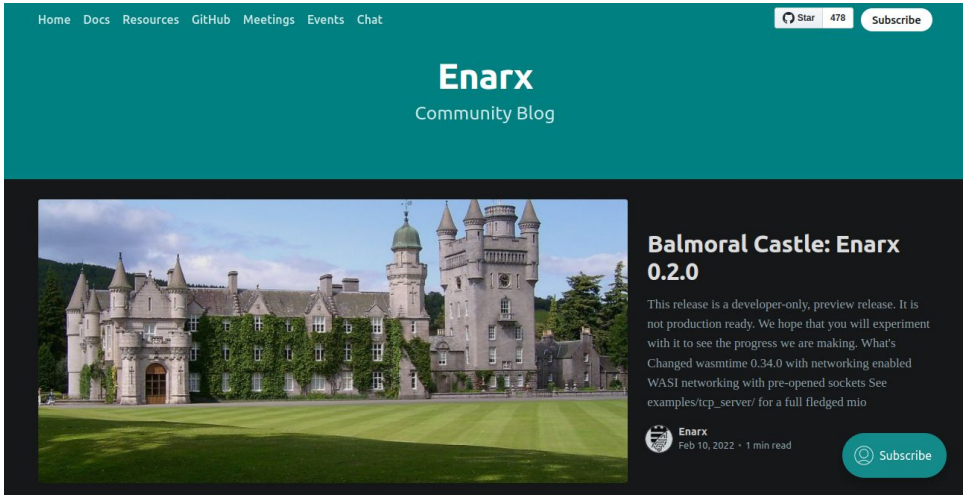
- Review whether any answers to the project's submission template or Technical Charter have changed, and if so, review the new answers. A representative from the project is responsible for presenting any deltas to the template answers since the last review, if any. If there are no changes, there is nothing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

1. Changes to project's submission template

Official communication channels:

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





1. Changes to project's submission template

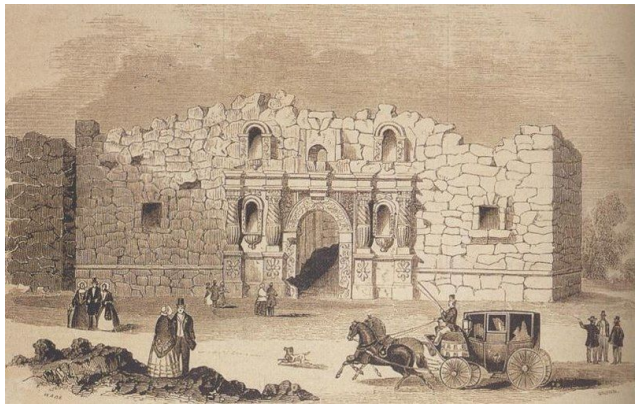
List of new third party dependencies:

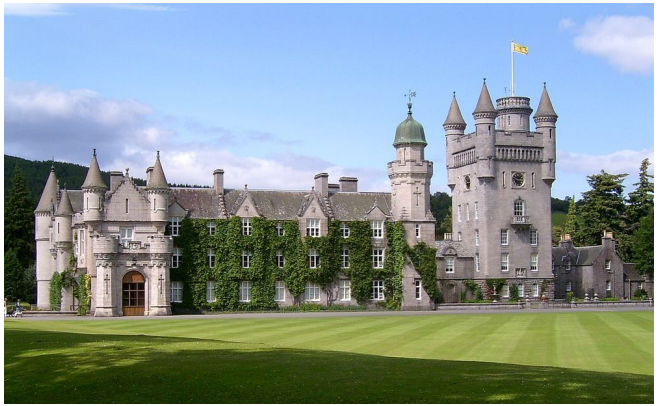
- OpenSSL: TLS and crypto library.
- wasmtime: WebAssembly runtime.
- tokio: Async for Rust.
- mio: Metal IO library for Rust.
- https://docs.google.com/spreadsheets/d/1UKnbbGWXYLjnPZsox3zmYo59nv3XSXjePfas5E2fER0/edit#gid=0

1. Changes to project's submission template

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 project’s progression status

- 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.

2. Review project's progression status

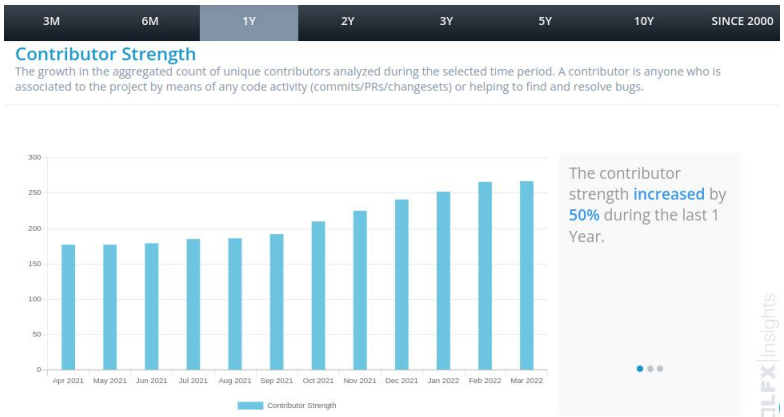
Governance:

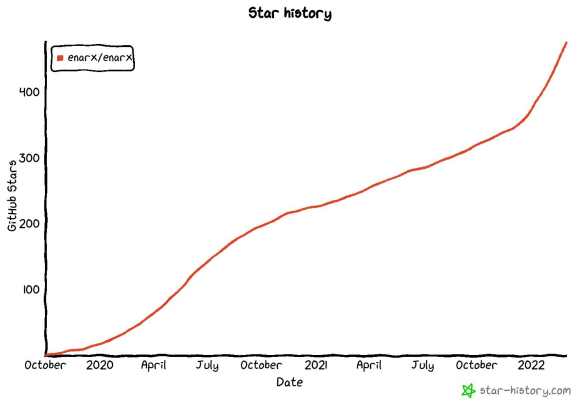
- Enarx's founders (Mike and Nathaniel) launched Profian and reaffirmed their commitment to keep Enarx open (open source code, open collaboration): https://blog.enarx.dev/enarx-and-a-new-custodian/
- Continued collaboration with Red Hat.
- Working towards a defined governing body of 5 or more members, of which no more than ⅓ is affiliated with the same employer.

2. Review project's progression status

Community Growth:

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





2. Review project’s progression status

Graduation Stage:

- At this point, Enarx is not ready to request a vote from the TAC to move to the Graduation stage.

3. Review project’s budget

- Review any budget allocations relevant to the project, and whether any adjustments are needed.

3. Review project’s budget

New hardware:

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

3. Review project's budget

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.
- Confidential Computing Fellowship Guide: https://enarx.dev/docs/Fellowship/Introduction


4. Review project’s license scans

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

4. Review project's license scans

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 Best practices: passing

  https://bestpractices.coreinfrastructure.org/en/projects/5414