


# OpenBao project proposal


Presented to the TAC: February 21, 2024

Subgroup reviewed on: February 29, 2024

Subgroup readout to the TAC: March 6, 2024

## Project Proposal - Project Introduction:

Required Information	Responses (Please list N/A if not applicable)
Name of Project	OpenBao
Project Description (what it does, why it is valuable, origin and history)	OpenBao exists to provide a software solution to manage, store, and distribute sensitive data including secrets, certificates, and keys. The OpenBao community intends to provide this software under an OSI-approved open-source license, led by a community run under open governance principles. This project is a fork of Hashicorp's Vault.
Statement on alignment with <a href="#">Foundation Mission Statement</a>	We agree with the foundation's mission statement.
High level assessment of project synergy with existing projects under LF Edge, including how the project compliments/overlaps with existing projects, and potential ways to harmonize over time. Responses may be included both here and/or in accompanying documentation.	Both Open Horizon and Edge X Foundry will incorporate/utilize OpenBao.
Link to <i>current</i> Code of Conduct	We will adopt LF Edge's Code of Conduct.
2 TAC Sponsors, if identified (Sponsors help mentor projects) - See full definition on <a href="#">Project Stages: Definitions and Expectations</a>	James Butcher (EdgeX Foundry) Joe Pearson (Open Horizon)
Project license	<a href="#">Mozilla Public License, Version 2.0</a>
Source control (GitHub by default)	<a href="https://github.com/openbao">https://github.com/openbao</a>
Issue tracker (GitHub by default)	<a href="https://github.com/openbao/openbao/issues">https://github.com/openbao/openbao/issues</a>
External dependencies (including licenses)	<a href="https://github.com/openbao/openbao/network/dependencies">https://github.com/openbao/openbao/network/dependencies</a> 
Release methodology and mechanics	GitHub Releases
Names of initial committers, if different from those submitting proposal	<a href="#">Matthew Burket (Independent)</a> <a href="#">Jeremiah Butler (independent)</a> <a href="#">Dan Ghita (ViaAccess-Orca)</a> <a href="#">jmls (Independent)</a> <a href="#">Robert Kregloh (Independent)</a> <a href="#">Lars Lehtonen (Independent)</a> <a href="#">Jan Martens (Independent)</a> <a href="#">Nathan Phelps (IBM, Open Horizon)</a> <a href="#">Gabriel Santos (independent)</a> <a href="#">Alexander Scheel (Independent)</a> <a href="#">Andrew Scorpil (Independent)</a> <a href="#">Jasper Siepkes (Independent)</a> <a href="#">Alexander Sharov (Independent)</a>
Current number of code contributors to proposed project	13 (Independent of the contributors to the upstream Vault source or its plugins)
Current number of organizations contributing to proposed project	Five companies, two LF Edge projects

Briefly describe the project's leadership team and decision-making process	<p>OpenBao has formed it's own technical steering committee (TSC) of five founding member organizations. While incubating under Open Horizon, it has been following their Technical Charter.</p> <p> <a href="#">IBM</a>  <a href="#">IoTech Systems</a>  <a href="#">Viaccess-Orca (Orange)</a>  <a href="#">WALLIX</a>  <a href="#">ZEDEDA</a> </p>
List of project's official communication channels (slack, irc, mailing lists)	<p> <a href="#">Mailing List</a>  <a href="#">#openbao-development:chat.lfx.linuxfoundation.org</a>  <a href="#">GitHub Discussions</a>            CVEs can be reported via <a href="mailto:openbao-security@lists.lfedge.org">openbao-security@lists.lfedge.org</a>.         </p>
Link to project's website	<a href="https://www.ibm.biz/openbao">https://www.ibm.biz/openbao</a>
Links to social media accounts	N/A
Existing financial sponsorship	IBM, Viaccess-Orca, and Wallix have pledged support in the form of FTE contributions.
Infrastructure needs or requests (to include GitHub/Gerrit, CI /CD, Jenkins, Nexus, JIRA, other ...)	OpenBao needs a place to host its community supported plugins. Access to development/test hardware to support other architectures (RISC-V).
Currently Supported Architecture	x86/64, ARM
Planned Architecture Support	RISC-V
Project logo in svg format (see <a href="https://github.com/lf-edge/lfedge-landscape#logos">https://github.com/lf-edge/lfedge-landscape#logos</a> for guidelines)	<p><a href="https://github.com/openbao/openbao/blob/main/bao.svg">https://github.com/openbao/openbao/blob/main/bao.svg</a></p> 
Trademark status	Trademark will need to be pursued by the Linux Foundation upon project proposal acceptance
Does the project have a Core Infrastructure Initiative security best practices badge? (See: <a href="https://bestpractices.coreinfrastructure.org">https://bestpractices.coreinfrastructure.org</a> )	No
Any additional information the TAC and Board should take into consideration when reviewing your proposal?	OpenBao is an incubation project under Open Horizon and is ready to become its own standalone member project under LF Edge.

#### Project Proposal - Mapping Criteria and Data:

### Stage 1: At Large Projects (formerly 'Sandbox')

Criteria	Data
2 TAC Sponsors, if identified (Sponsors help mentor projects) - See full definition on <a href="#">Project Stages: Definitions and Expectations</a>	
A presentation at an upcoming meeting of the TAC, in accordance with the project proposal requirements	
The typical IP Policy for Projects under the LF Edge Foundation is Apache 2.0 for Code Contributions, Developer Certificate of Origin (DCO) for new inbound contributions, and Creative Commons Attribution 4.0 International License for Documentation. Projects under outside licenses may still submit for consideration, subject to review/approval of the TAC and Board.	
Upon acceptance, At Large projects must list their status prominently on website/readme	

\*\*\* For existing Projects requesting Stage 2 or Stage 3 consideration, please update the above with the Stage 2 or Stage 3 Mapping criteria, available at [Project Stages Mapping: Criteria and Data](#)

**Project Proposal - Taxonomy Data:**

Functions (Provide, Consume, Facilitate, or N/A; Add context as needed)

Functions	(Provide, Consume, Facilitate, or N/A; Add context as needed)
APIs	Provide, Consume (OpenBao provides its own API interface, and consumes other APIs via plugins included)
Cloud Connectivity	Consume  (Support provided by plugins)
Container Runtime & Orchestration	Consume
Data Governance	Provide, Consume, Facilitate  ( )
Data Models	Provide  (Secrets)
Device Connectivity	N/A
Filters/Pre-processing	N/A
Logging	Provide  (Audit and Logging APIs)
Management UI	Provide
Messaging & Events	Provide
Notifications & Alerts	N/A
Security	Provide, Facilitate  (Secrets management)
Storage	Provide, Consume  (Support Provided by plugins)

Deployment & Industry Verticals (Support, Possible, N/A; Add context as needed)

Deployment Type	(Support, Possible, N/A; Add context as needed)
Customer Devices (Edge Nodes)	Support
Customer Premises (DC and Edge Gateways)	Support
Telco Network Edge (MEC and Far-MEC)	Possible
Telco CO & Regional	Possible
Cloud Edge & CDNs	Possible
Public Cloud	Support
Private Cloud	Support

## Deployment & Industry Verticals ( or X; Add context as needed)

Directly applicable Industry/Verticals use cases	( or X; Add context as needed)
Automotive / Connected Car	
Chemicals	
Facilities / Building automation	
Consumer	
Manufacturing	
Metal & Mining	
Oil & Gas	
Pharma	
Health Care	
Power & Utilities	
Pulp & Paper	
Telco Operators	
Telco/Communications Service Provider (Network Equipment Provider)	
Transportation (asset tracking)	
Supply Chain	
Preventative Maintenance	
Water Utilities	
Security / Surveillance	
Retail / Commerce (physical point of sale with customers)	
Other - Please add if not listed above (please notify <a href="mailto:TAC-subgroup@lists.lfedge.org">TAC-subgroup@lists.lfedge.org</a> when you add one)	

## Deployments (static v dynamic, connectivity, physical placement) - ( or X; Add context as needed)

Use Cases	( or X; Add context as needed)
Gateways (to Cloud, to other placements)	(Public/Private Clouds)
NFV Infrastructure	N/A
Stationary during their entire usable life / Fixed placement edge constellations / Assume you always have connectivity and you don't need to store & forward.	N/A
Stationary during active periods, but nomadic between activations (e.g., fixed access) / Not always assumed to have connectivity. Don't expect to store & forward.	N/A
Mobile within a constrained and well-defined space (e.g., in a factory) / Expect to have intermittent connectivity and store & forward.	N/A
Fully mobile (To include: Wearables and Connected Vehicles) / Bursts of connectivity and always store & forward.	N/A

## Compute Stack Layers (architecture classification) - (Provide, Require, or N/A; Add context as needed)

Compute Stack Layers	(Provide, Require, or N/A; Add context as needed)
APIs	Provide

Applications	Provide
Firmware	N/A
Hardware	N/A
Orchestration	N/A
OS	Require
VM/Containers	N/A (Optional)

Cloud Stack Layers (architecture classification) - (Provide, Require, or N/A; Add context as needed)

Cloud Stack Layers	(Provide, Require, or N/A; Add context as needed)
Applications	Provide
Configuration (drive)	N/A
Content (management system)	N/A
IaaS	N/A
PaaS	N/A
Physical Infrastructure	Require
SaaS	N/A

Attachments (LF Edge PPT template is below, if proposing project would like to leverage):

? Unknown Attachment