

LAYERS5

Expect more from your infrastructure

Hacktoberfest Prep: Extending Meshery Models



Hacktoberfest Prep



Vivek - Layer5 Overview (5 min)

- Welcome and introduction to Layer5's community
- Our history with Hacktoberfest (3 years)
- This year's theme includes the Meshery models..
- My Journey

Sudhanshu - The Mechanics of Contributing (15 min)

- Overview of meshery.io site structure and the framework used.
- Demo a fix in meshery.io which includes:
 - Code semantics
 - Site build
 - Commit sign-off
- Sistent design system - Use sistent components

- Contribution with no-code

- Find Issues/Bugs
- Spread the Word and Engage
- Creative Ways to Help

Ijeoma - Get "GO"ing with Meshery Playground (10 min)

- Quick overview of Cloud Native Playground and Architecture
- Navigating through Meshery's source code
- How and where to contribute first for gophers?

Shlok - Extending Meshery (20 min)

- Quick overview for Models, Components and Relationships. (3 min)
- Generating Models from URL and Sheet. (2 min)
- Importing/ Generating Models and publishing to catalog. (1 min)

Awani - Meshery Catalog (5 min)

- Introduction to Meshery Catalog
- How to use the catalog
- Opening catalog designs in Playground
- Publishing to catalog

Hargun - Joining the Layer5 Community (5 min)

- How to join the community
- New members form
- Accessing resources
- Recognition Program (Badges Program)
- Conclusion

...with guest Contributors



Vivek Vishal

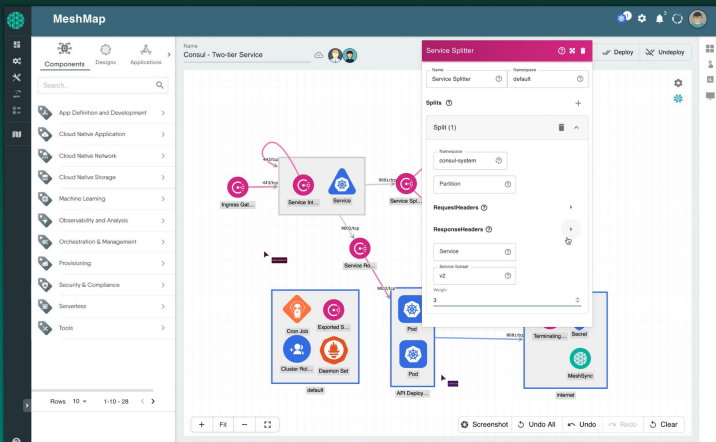
Community Manager

LAYER5

layer5.io/community/members/vivek-vishal



Get Started with Layer5



The Cloud Native Playground



Newcomer
Onboarding
Program



Open Source
programs



GSoD



LFX



MLH



GSoC



She Code Africa

Project Velocity

github.com/cncf/velocity



Position

(non-cumulative)



Authors

(non-cumulative)



My Journey & Importance of GitHub Stars



- How I started my open source journey with Layer5?
- Importance of GitHub Stars 🌟

<https://github.com/meshery/meshery>



Sudhanshu Dasgupta

Community Manager/Maintainer

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layer5.io/community/members/sudhanshu-dasgupta



The Mechanics of Contributing

layer5.io site structure and frameworks



Code Semantics

- Understand which component to use and when. Reuse.
- Consistency = quality.
- Consistency = faster PR merge times.

👁️ Build and Preview

- Await your deploy preview and review changes.



Give your John Hancock.

- Commit your changes (with sign-off, i.e. DCO)



Buckle up. Preflight check.

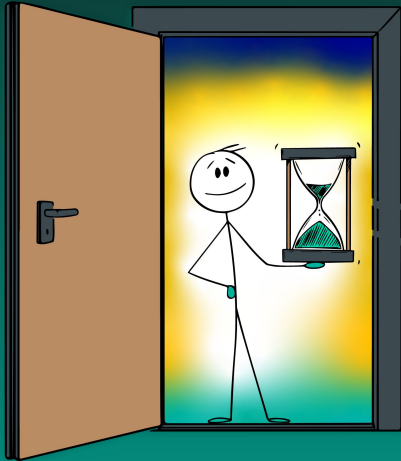
- Review and fix any failing build checks like eslint checks, while you **patiently** await another contributor or maintainer to offer feedback.



Grammar counts.

- Craft a meaningful PR title and push with your changes inside.

Contribution with no-code



1. Find Bugs 🐛

- Use the project. Find bugs along the way. 🔍

2. Many Ways to Contribute 👁️

- You can also write blog posts, improve UX designs, edit documents, or welcome new folks.
- See the full list of the [many ways to contribute](#) 🚀

3. Spread the Word and Engage 📢

- Share the project with others and encourage participation.
- Ask your friends to drop a **star** ★



Ijeoma Eti

Software Engineer

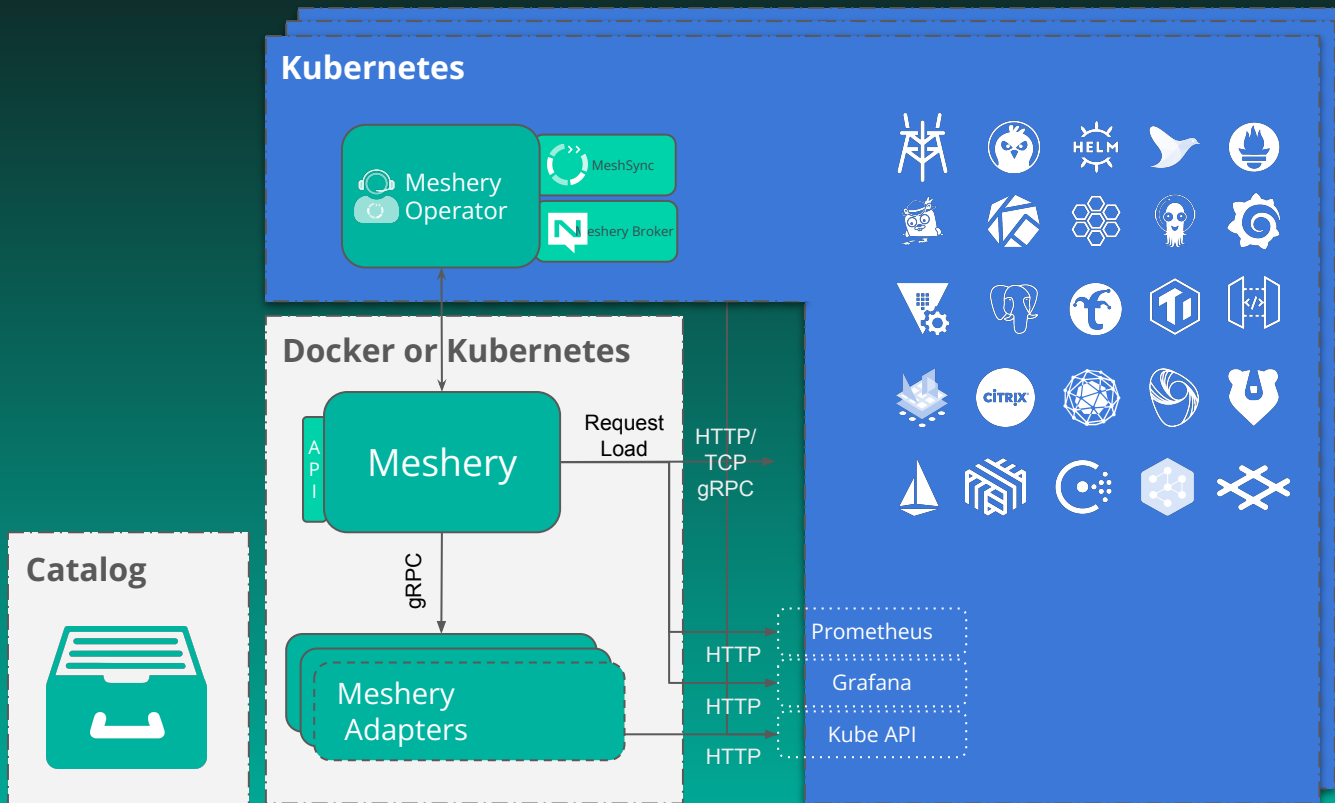
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<https://layer5.io/community/members/eti-ijeoma>



Meshery Architecture

Core





Get “Go”ing with Cloud Native Playground



1. Quick overview and resources of Cloud Native Playground
 - <https://playground.meshery.io/>
2. Navigating Meshery source code:
 - <https://github.com/meshery/meshery>
 - mesheryctl, Meshery Server, Adapters,
 - Operator, MeshSync, workflows
3. How and where to start contributing for Gophers?
 - End-to-end workflow, mesheryctl unit tests, etc.
 - Migration to go1.21
 - Slack notification workflow
 - [Issues](#)



Shlok Mishra

Layer5 Intern

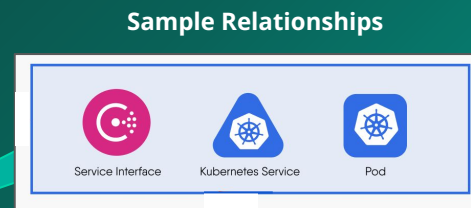
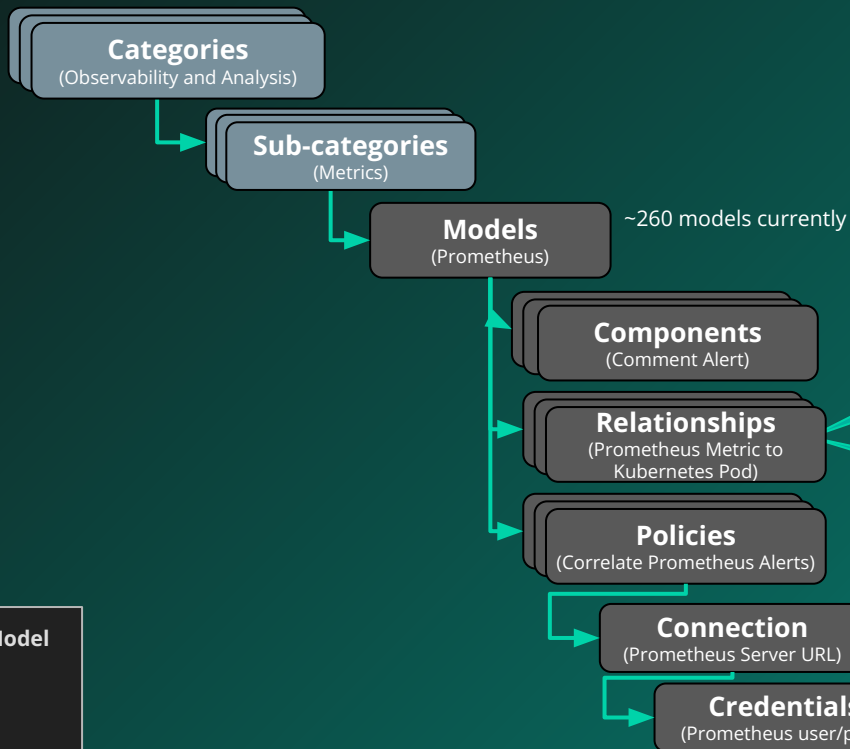
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layer5.io/community/members/shlok-mishra



Meshery Models

Construct Classification



Relationship kind: Hierarchical, subtype: Parent



Relationship kind: Edge, subtype: Mount

Components per Model

Median: 7
Average: 12
Maximum: 124

as of v0.7.0

Extending Meshery Models



References

1. What is Model, Components and Relationships
 - <https://docs.meshery.io/concepts/logical/models>
 - <https://docs.meshery.io/concepts/logical/components>
 - <https://docs.meshery.io/concepts/logical/relationships>
2. Import and Export Model
 - <https://docs.meshery.io/guides/configuration-management/importing-models>
 - <https://docs.meshery.io/guides/configuration-management/exporting-models>
3. Add Models to meshery.io catalog



Awani Alero

Layer5 intern/DevOps Engineer

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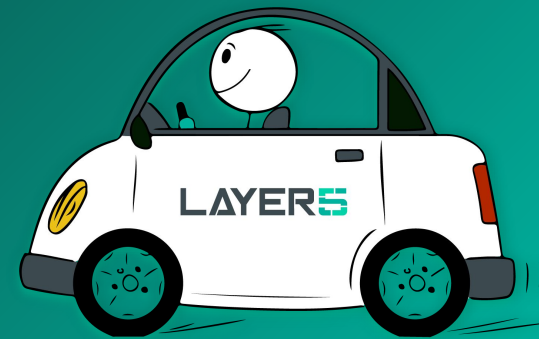
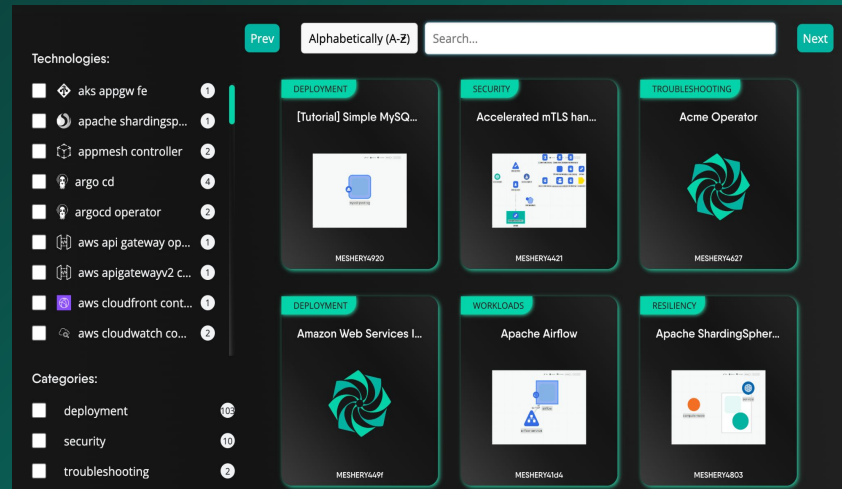
layer5.io/community/members/alero-awani



Meshery Catalog - *Browse, Discover and Share cloud native infrastructure configurations and design patterns.*



1. Introduction to [Meshery catalog](#)
2. How to use the Catalog.
3. Access Catalog designs on the Playground.
4. Publishing your designs to Catalog!





Hargun Kaur

Community Manager

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layer5.io/community/members/hargun-kaur



Join the Layer5 Community!



Where do I start?

- Jump into our [slack](#)
- Go over our beginner guides
- Ask a [Meshmate](#) questions

How do I become a member?

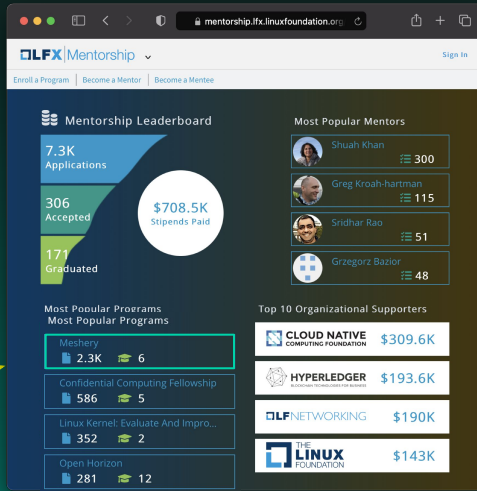
- Community [Members Form](#)
- [Member profiles](#)
- Attend our [meetings](#)

Where do I find an area to contribute?

- Explore the [GitHub repositories](#)
- Request an issue
- Create an issue
- Jump on discussions in the forum, slack, & meetings

What Else?

- [Recognition Badges](#)
- [Writers Program](#)
- [Mentorships](#)



#1 Most Popular Project
in Linux Foundation Mentorship Program



Earn the Badge
Limited Edition



Participate!
Hacktoberfest is every month at Layer5



github.com/layer5io



twitter.com/layer5



linkedin.com/company/layer5



slack.lay5.io



youtube.com/c/Layer5io



discuss.layer5.io

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