



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

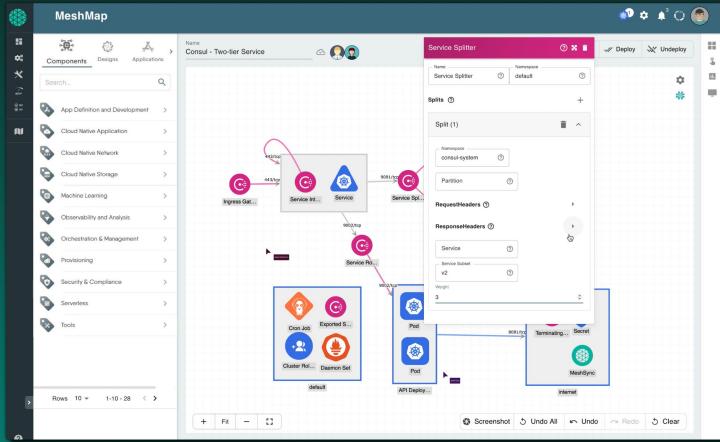
Community Manager

LAYER5

layer5.io/community/members/vivek-vishal



Get Started with Layer5



The Cloud Native Playground



MESHMATE
Newcomer
Onboarding
Program



Open Source
programs



GSOD

THE
LINUX
FOUNDATION

LFX

MLH
MAJOR LEAGUE HACKING

MLH



GSOC



She Code Africa

Project Velocity

github.com/cncf/velocity



Position
(non-cumulative)



Authors
(non-cumulative)



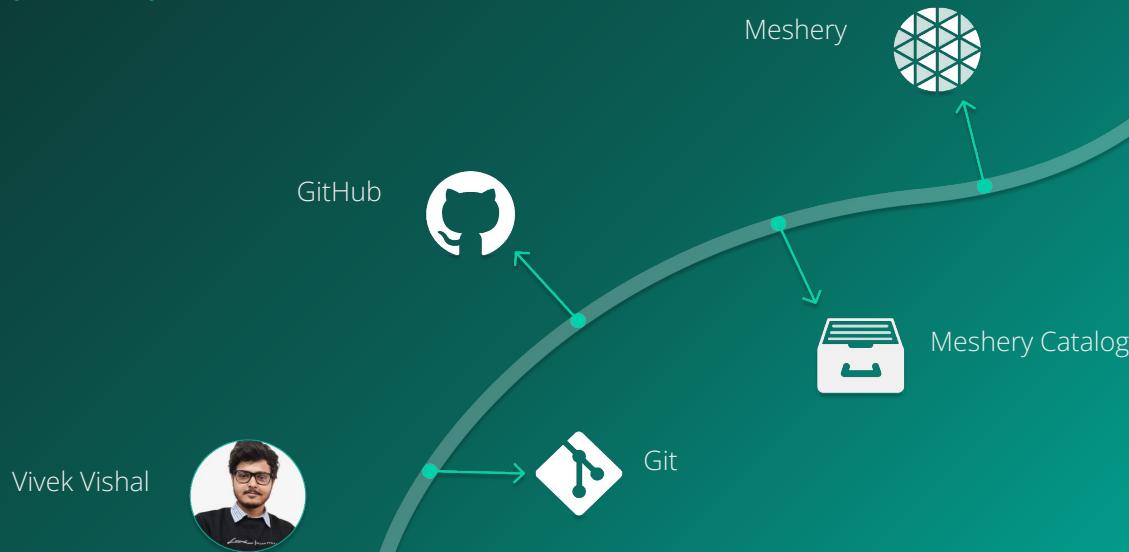
COMMUNITY

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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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.

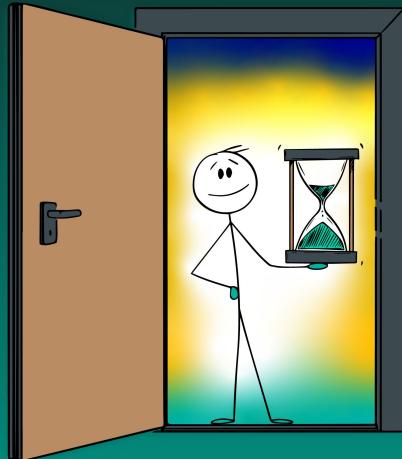
- Review and fix any failing build checks like eslint checks, while you patiently await another contributor or maintainer to offer feedback.



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

LAYER5

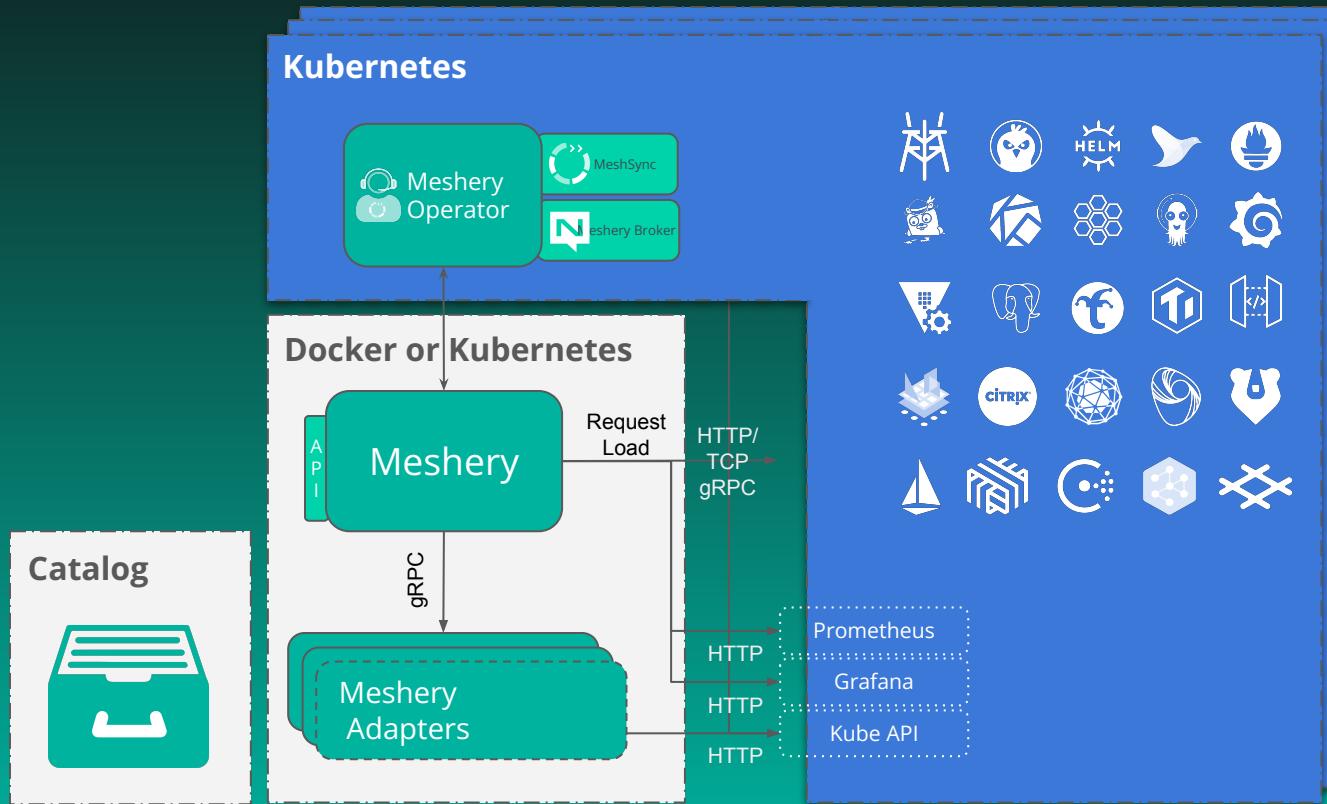
<https://layer5.io/community/members/eti-ijeoma>



Meshery Architecture



Core

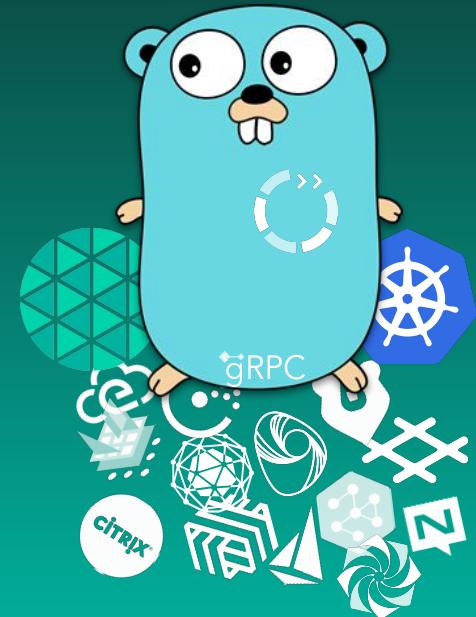




Get “Go”ing with Cloud Native Playground



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

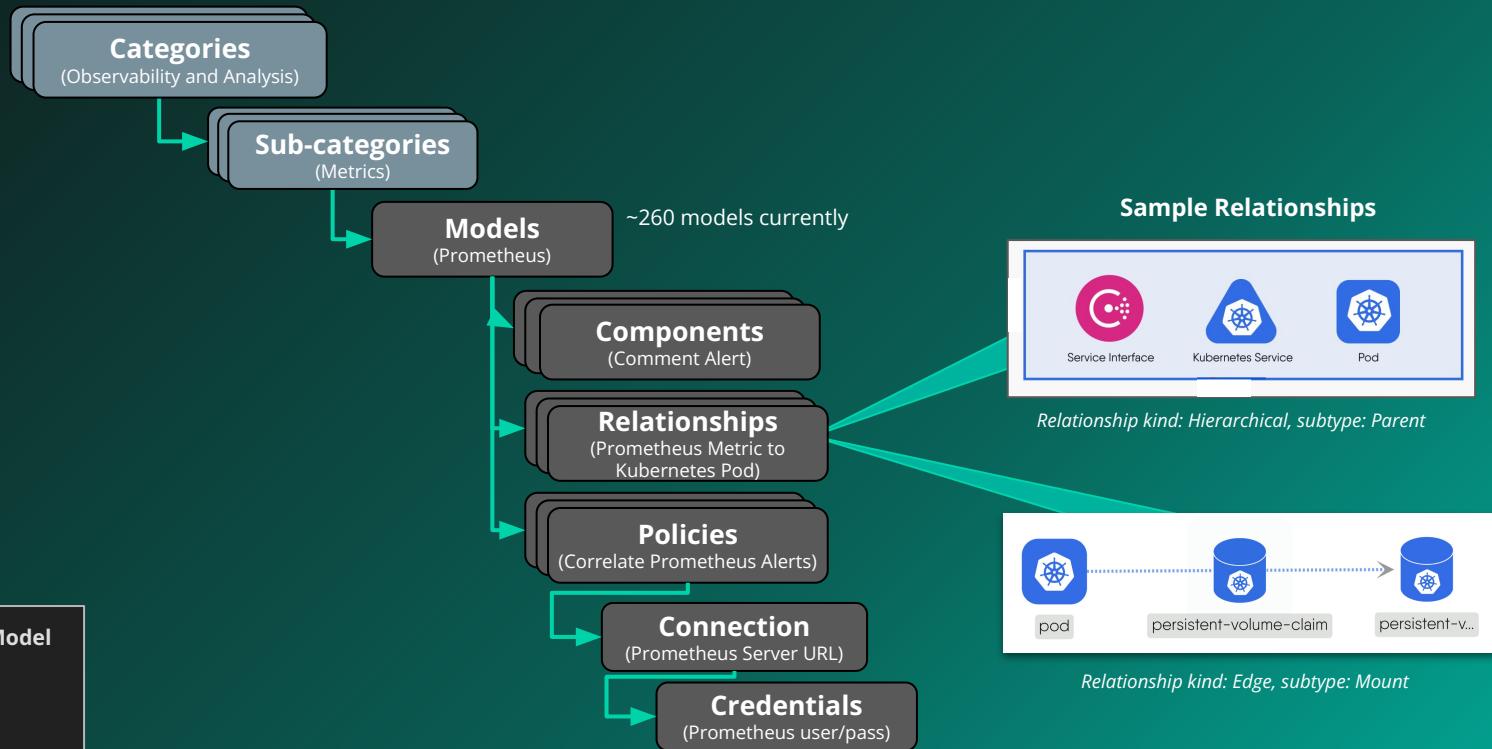
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layer5.io/community/members/shlok-mishra



Meshery Models

Construct Classification





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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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!

Technologies:

- aks appgw fe
- apache shardingsp...
- appmesh controller
- argo cd
- argocd operator
- aws api gateway op...
- aws apigatewayv2 c...
- aws cloudfront cont...
- aws cloudwatch co...

Categories:

- deployment
- security
- troubleshooting

DEPLOYMENT [Tutorial] Simple MySQL... MESHERY4920

SECURITY Accelerated mTLS han... MESHERY4421

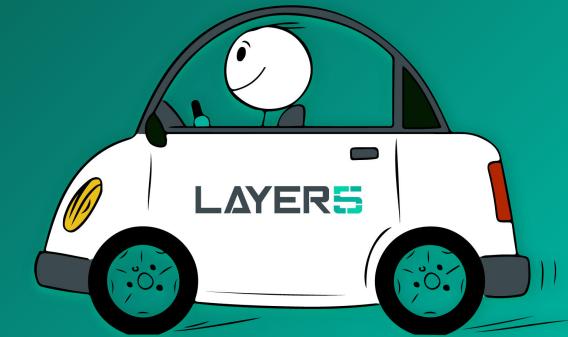
TROUBLESHOOTING Acme Operator MESHERY4627

DEPLOYMENT Amazon Web Services I... MESHERY4491

WORKLOADS Apache Airflow MESHERY4614

RESILIENCY Apache ShardingSpher... MESHERY4803

Prev Alphabetically (A-Z) Search... Next

A screenshot of the Meshery Catalog interface. At the top, there are navigation buttons for 'Prev', 'Alphabetically (A-Z)', 'Search...', and 'Next'. Below this is a sidebar with sections for 'Technologies' and 'Categories'. The 'Technologies' section lists various cloud native components like 'aks appgw fe', 'apache shardingsp...', etc., each with a small icon and a count (e.g., 1, 1, 2, 4, 2, 1, 1, 1, 2). The 'Categories' section lists 'deployment', 'security', and 'troubleshooting' with counts of 103, 10, and 2 respectively. The main area displays a grid of cards for different designs. Each card has a title, a preview image, and a unique identifier at the bottom. The cards are organized into four columns: DEPLOYMENT (with cards for MySQL and AWS Lambda), SECURITY (with a card for mTLS), TROUBLESHOOTING (with a card for Acme Operator), and RESILIENCY (with cards for Apache Airflow and ShardingSphere).



Hargun Kaur

Community Manager

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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?

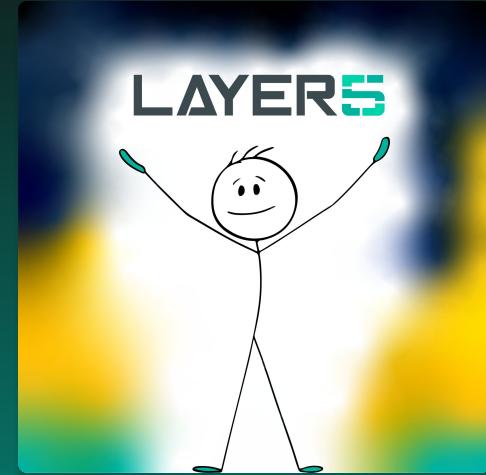
- [Recognition Badges](#)
- [Writers Program](#)
- [Mentorships](#)



#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.layer5.io



youtube.com/c/Layer5io



discuss.layer5.io

LAYERS