

Expect more from your infrastructure

Hacktoberfest Prep:

Easing into Cloud Native

Open Source Projects



Hacktoberfest Prep



Gaurav Chadha - Layer5 Overview (5 min)

- Welcome and introduction to Layer5's community
- Our history with Hacktoberfest
- This year's theme includes the Meshery Docker Extension

Sahil Suman - Navigating your first issue (10 min)

My story

Nikhil Ladha - The Mechanics of Contributing (20 min)

- Overview of layer5.io site structure and the framework used.
- Demo a fix in layer5.io which includes:
 - Code semantics
 - Site build
 - o Commit sign-off
 - Lint checks

Harshit Dandryl - Finding and Landing Your Issue Assignment (5 min)

- Using GitHub labels effectively; Searching across GitHub Orgs
- Polluting poking a well-intentioned issue squatter
- Suggesting your own issues

Ashish Tiwari - Get "GO"ing with Meshery (5 min)

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

Abhi Kumar - Your Cloud Native Catalog (5 min)

• Meshery Catalog - Designs, Applications, Filters

Anita Ihuman - Joining the Layer5 Community (5 min)

- How to join the community
- New members form
- Accessing resources

Alexis Abakasanga - Contributing impactfully as a Designer (5 min)

- Layer5's Design File
- Contribution Guidelines

Gauray Chadha - Conclusion

• Jump in!

...with guest Contributors

Pranav Singh and Kamal Singh



Software Engineer Intern and Meshmate at

layer5.io/community/members/gaurav-chadha



Get Started with Layer5











Newcomer Onboarding Program



Open Source programs











LFX

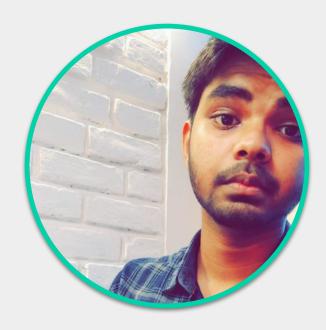
MLH

GSoC

Sahil Suman

Software Engineer Intern at LAYERS

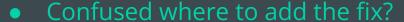
layer5.io/community/members/sahil-suman/



Navigating your first issue



- First time contributing to open-source? How to start?
 - What type of issues shall I take up?



- o How to navigate through a large codebase 🙁
- 🔹 Take some time, settle-in 🧐
 - Understand the code, the "why's" and "how's"
- Kaboom!
 - o You are through! 💅



From zero to contributing



Software Engineer at Red Hat
Maintainer and Meshmate at LAYERS

layer5.io/community/members/nikhil-ladha



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.

99 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.

HarshitDandriyal

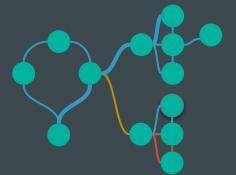
Software Engineer Intern at LAYERS

<u>layer5.io/community/members/harshit-dandriya</u>



Not Finding a Code-based Issue to Work On?





- 1. Run the project by following the documentation, then you can start finding issues on your own.
- 2. No-code contribution by finding an issue to make the project better or you can also assign that issue to yourself by asking from maintainers.
- 3. You can still create a blog, work on the design, edit project documents, and welcome new participants.

Abhi Kumar

Software Engineer and Maintainer at **LAYER**

<u>layer5.io/community/members/abhishek-kumai</u>





Discover best practices. Publish design patterns.





Meshery Catalog

Users can share:

- Operational designs
- Network Filters
- Governance Policies Mesh Add-ons

Teams can:

• Create private catalogs visible only to vour teams and approved by your org.



Advanced users can:

 Build your WASM Filters and eBPF Programs



WASM Filters





WA MESHERY023



WA MESHERY019

Service Patterns









eBPF Programs







MESHERY043

OPA Policies



Only w/Agent

RESILIENCY

MESHERY057







Create

5

MeshMap Designer

Meshery Applications

Import Docker Compose apps, Helm Charts, or Kubernetes Manifests for visual configuration

WebAssembly Filters

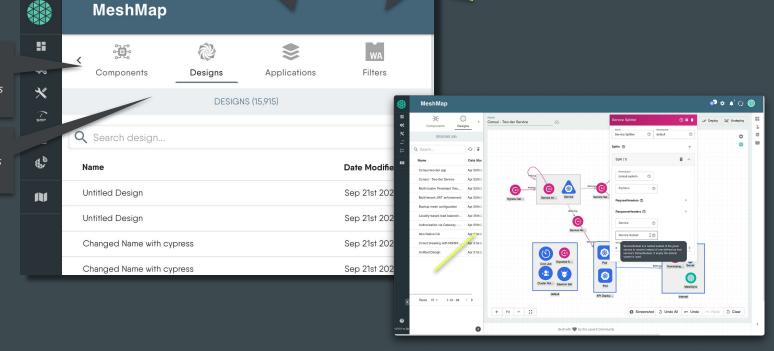
Import, configure, chain, and deploy your WASM filters

Cloud Native Components

Hundreds of versioned components to choose from

Designs and Patterns

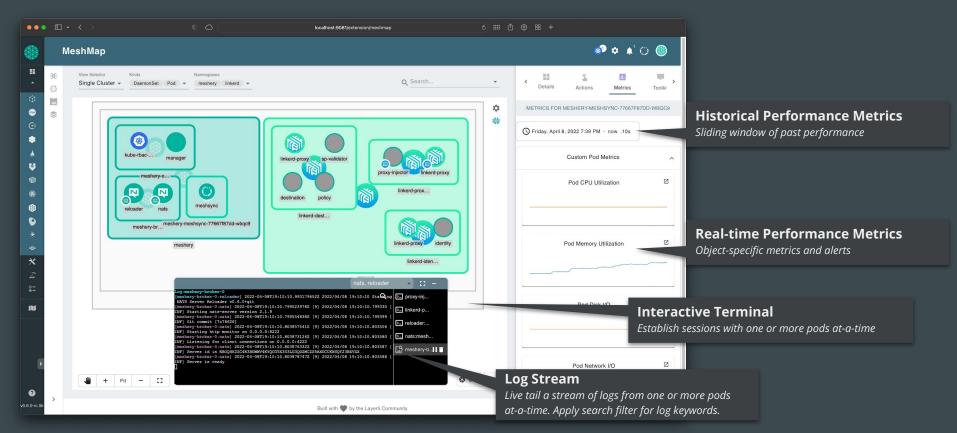
Compose designs. Reuse designs as patterns.



Operate

MeshMap Visualizer





Ashish Tiwari

Software Engineer and Maintainer at **LAYER**

<u>|layer5.io/community/members/ashish-tiwari/</u>





Get "Go"ing with Meshery



- Quick overview of Meshery Architecture
- Navigating Meshery source code
 - mesheryctl, Meshery Server, Adapters,
 - Operator, MeshSync
- How and where to start contributing for Gophers?
 - End to End workflows
 - Propagating changes across adapters





MeshMate at Layer5

<u>layer5.io/community/members/anita-ihuman</u>



Join the Layer5 Community!



Where do I start?

- Jump into our <u>slack</u>
- Go over our beginner guides
- Ask a <u>Meshmate</u> questions

How do I become a member?

- Community <u>Members Form</u>
- <u>Member profiles</u>
- Attend our <u>meetings</u>

Where do I find an area to contribute?



- Explore the <u>GitHub repositories</u>
- Request an issue
- Create an issue
- Jump on discussions in the forum, slack, & meetings

Alexis Abakasanga

UX Designer at Layer5

<u>layer5.io/community/members/alexis-abakasanga</u>



Contributing impactfully as a UX Designer



Layer5 Figma Design Files

The home of all Layer5 projects, all hands on deck with design issues are just a comment away.

https://www.figma.com/file/5ZwEkSJwUPitURD59YHMEN/Layer5-Designs?node-id=1869%3A296 7_



Contribution Guidelines

These are important in-order to facilitate and maintain impactful design contributions moving forward.

https://www.figma.com/file/5ZwEkSJwUPitURD59YHMEN/Layer5-Designs?node-id=5310%3AC



#1 Most Popular Project

in Linux Foundation Mentorship Program



Participate!

It's Hacktoberfest every month at Layer5









slack.laye5.io





youtube.com/c/Layer5io

discuss.layer5.io

LAYER

Service Mesh Service Mesh Performance Interface Cloud Native Policy, Workflow, Patterns Governance Meshery Cloud Native Nighthawk Catalog

Define and Enforce Service Mesh Standards



The Only Openly Governed Cloud Native Manager CLOUD NATIVE

Best Practice Patterns and Templates CLOUD NATIVE

> **Advanced Performance** Analysis and Intelligence CLOUD NATIVE





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