Learning Path: Mastering Contribution To Meshery



Certification: Contributing To Meshery

Innovation through Collaboration

Learning Path: Mastering Contribution to Meshery



Document Purpose	3
Document Scope	3



Document Purpose

- 1. To provide a roadmap for a complete Learning Path to Mastering Contribution to Meshery.
- 2. To enable collaborative drafting and review of the content itself (written in markdown).

Tips and Tricks from Maintainers

Having Maintainers offer questions and review as beta testers.

Create FAQs

- What happens if I fail? Can I retake and how many times, if so?
- Does my credential (certificate) expire?
- How do I show-off my credentials (I'm proud of it)?
- Other faqs

Create one exam per architectural component.

- SErver, ui, cli,
- Adapters
- •

Lee Calcote Create a badge graphics

Ritesh Karankal Brainstorm a name

Lee Calcote Create a new repo from template: github.com/meshery-extensions/meshery-academy

Blog post

sSOI

Put into an email and send

Document Scope

Out of Scope:

1. Regurgitating all of Meshery Docs.

In Scope:

1. Highlighting best practices, covering common user flows.



Resources:

- See CNCF Hub for a taxonomy of Learning Paths.



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Learning Path: Contributing to Meshery

Course: Overview

Chapter: Contributing overview

About Meshery

Chapter: Projects and Repository overview

Chapter: How, Why, and Where to Contribute

Section: How to Contribute

Assessing your skills & interests, choosing an area to contribute, Where to Ask for help, Discuss, and Collaborate: GitHub Issues, Slack, Discussion Forum, and Meetings.

Section: Why to Contribute

Learning opportunity, impact, recognition

Section: Where to Contribute

Documentation, Codebase, Community & Outreach, Design & UX, Testing and QA, Project

Management

Chapter: Contributing Flow

Chapter: GitHub Process

Chapter: Community Guidelines and Code of Conduct

Course: Working with Docs

In this course, you will learn how Meshery docs are structured, how to set up your dev environment, and how to contribute docs that actually get merged.

Chapter: Meshery docs

Section: Meshery Docs structure

Overview of docs.meshery.io layout, How users can navigate, and find relevant content



Meshery Docs live at <u>docs.meshery.io</u> and act as the go-to place for users, contributors, and maintainers to learn, explore, and contribute to Meshery. Understanding how these docs are organized will help you navigate them smoothly and know where to add your contributions.

Layout Overview

- **Home**: The landing page introduces Meshery and links to the guides.
- **Guides and Tutorials:** Step-by-Step instructions for using Meshery features.
- **Concepts and Architecture:** Background material that explains Meshery's building blocks, like components, patterns, models, and more.
- Installation: Platform-specific installation instructions (Docker, Kubernetes, Minikube, etc.)
- **Reference:** Command-line reference (mesheryctl), API reference, and error codes.
- **Contributing:** Documentation for contributors, explaining workflows, style guides, and best practices for writing and submitting changes.

Navigation

- The sidebar is the main way to move through the docs. It is grouped by topics like *Installation, Guides, Concepts*, etc.
- Each page uses YAML frontmatter at the top to control how it shows up in the sidebar.
- Internal links (cross-links) make it easy to jump between related pages without losing context.

Why Structure Matters

Keeping the docs structured ensures:

- Clarity for users: Readers can quickly find what they are looking for.
- Ease for contributors: You know exactly where your new page or section belongs.
- Consistency: Docs look and feel uniform across all topics.

Chapter: Setting up the dev environment

A local docs setup lets you preview changes before you open a PR. Pick your OS and follow the steps. If something feels off, there is a small Troubleshooting box in each section.

Section: For Windows

Goal: run the Meshery docs site locally with Jekyll inside WSL2 (Linux on Windows).

Section: For Linux

Goal: Same as Windows, just native Linux.

1. Clone and install deps:

```
git clone https://github.com/<your-username>/meshery.git
cd meshery/docs
```

2. Serve

make docs

or

bundle exec jekyll serve --drafts --config _config_dev.yml



Section: For MacOs

Goal: Run Jekyll with system Ruby or rbenv.

1. Install Homebrew (if needed)

https://brew.sh

- 2. Install Ruby
- 3. Clone and install deps

git clone https://github.com/<your-username>/meshery.git
cd meshery/docs

4. Serve

make docs

or

bundle exec jekyll serve --drafts --config _config_dev.yml

Section: Serving the site (what the commands do)

- make docs runs Jekyll in dev mode (drafts enabled, local server, live reload).
- bundle exec jekyll serve --drafts --config _config_dev.yml does the same, but explicitly (handy when make is not available or you want to toggle flags).

When it boots, open http://localhost:4000 and browse your changes.

Section: Using Docker

Best when you don't want to install Ruby/Jekyll locally.

From the meshery/docs folder:

make docker

This builds a container and serves the site. Open the port it prints (usually http://localhost:4000). Heads-up: This path can be flaky on Windows. If it misbehaves, prefer WSL2 or Codespaces/Gitpod.

Section: Using Gitpod

Best when you want zero local setup.

- 1. Install the Gitpod browser extension.
- 2. Open your fork on GitHub and click Gitpod (button appears with the extension).
- 3. In the Gitpod terminal:

cd docs

make docs

Gitpod will expose a preview URL in the Ports panel.

Section: Serve GitHub Codespaces

Best when you want a cloud VS Code with your fork.

- 1. On your fork, click Code \rightarrow Open with Codespaces \rightarrow New codespace.
- 2. In the terminal:

cd docs

make docs



Codespaces will show a forwarding URL (click it). If you want to work from local VS Code connected to your Codespace, you can just open the port link from there.

Chapter: Documentation Contribution Flow

Section: Contribute and Preview the changes

Contributing to Meshery Docs follows a simple and structured process to ensure consistency and quality.

1. Fork the Repository

• Start by forking the Meshery repository into your GitHub account.

2. Clone Locally

• Clone your fork to your local machine and navigate to the /docs directory.

git clone https://github.com/<your-username>/meshery.git
cd meshery/docs

3. Create a New Branch

Always create a new branch for your changes.
 qit checkout -b my-docs-update

4. Make Edits

- Update the relevant Markdown file (.md).
- If you are adding a new page, don't forget to update navigation or sidebar files if needed.

5. Preview Locally

- Run make docs (or the relevant command for your platform) to serve the documentation site locally.
- Open http://localhost:4000 in your browser to see the changes.

6. Commit with Sign-off

Meshery uses the Developer Certificate of Origin (DCO). Always sign your commits.
 git commit -s -m "docs: updated contributing guide"

7. Push and Open a Pull Request

- Push your branch to your fork and open a PR against meshery/meshery:master.
- A Netlify preview will be automatically generated for reviewers to test.

This flow ensures all the contributions are traceable, reviewable, and meet project standards.

Chapter: Documentation Framework

The Meshery Docs site is powered by modern static site tooling. Understanding the framework helps contributors work effectively with the system.

Section: What Powers the doc - rendering and structuring

- YAML Frontmatter



Each documentation file begins with a block of YAML frontmatter. This metadata defines properties of the page:

_

layout: default

title: "Contributing to Meshery Docs"

abstract: "Learn how to contribute to Meshery Docs."

permalink: guides/tutorials/contributing-to-docs

language: en

- **♦ layout** → Which template to use (default = standard page look).
- **♦ title** → The name of your page (shows up in headings & navigation).
- **♦ abstract** → A summary that appears in previews or cards.
- ◆ permalink → The URL path where this page will live (e.g., /quides/tutorials/contributing-to-docs).
- **♦ language** → The language of the page (default is en).

> TOC in sidebar

Controlled by front matter (e.g., toc: true) and sidebar config. Don't hand-roll complex sidebars in-page; follow existing patterns.

> Liquid

Meshery Docs use Liquid, the templating language from Jekyll, to dynamically include content, variables, and layouts.

• Example: {% include alert.html type="info" title="Heads up!" %} This displays a styled alert box without repeating code.

Jekyll templating syntax

> Jekyll

- Jekyll is a static site generator used to build Meshery Docs.
- Converts Markdown files (.md) into static HTML pages.
- Applies layouts and themes for consistent styling.
- Supports drafts, collections, and custom plugins.

> Theme https://github.com/vsoch/docsy-jekyll

- Meshery Docs are styled with the <u>Docsy Jekyll Theme</u>.
- Ensures responsive design and clean navigation.
- Simplifies maintenance and reduces custom CSS.

Chapter: Understanding the Flow of Meshery Docs Rendering

Section: Flow

Meshery Docs are written in **Markdown (.md)**, which are then processed through **Jekyll** and rendered into static **HTML pages**. The flow is:

Markdown (.md) \rightarrow Jekyll (Liquid + Layouts) \rightarrow HTML \rightarrow Deployed site

• **Markdown** provides the content.



- YAML frontmatter adds metadata like title, description, and layout.
- Jekyll with Liquid templates applies layouts and formatting.
- **Docsy Jekyll theme** ensures consistent styling and navigation.

Understanding this flow helps contributors preview how their raw .md edits become styled pages on docs.mesherv.io.

Chapter: Using the Features of Meshery docs

Section: Clipboard

Code snippets in Meshery Docs automatically include a clipboard copy button.

```
mesheryctl system start
```

Readers can copy commands with one click, improving usability.

```
### Section: Alerts
Use alerts to highlight important information. Meshery Docs includes reusable
`alert.html` partials.
```liquid
{% include alert.html type="info" title="Note" %}
```

Types include: info, warning, danger, success, primary, etc.

#### **Section:** Alerts

Alerts are used in Meshery Docs to call attention to important notes, warnings, or tips. They help readers quickly spot key information without cluttering the flow of the page.

Meshery Docs provides a reusable include file, alert.html, for creating alerts. You can choose from different types such as info, warning, success, danger, and more.

#### Example (info alert):

```
{% include alert.html type="info" title="Heads up!" %}
This is an informational message.
{% endinclude %}
```

This will render a styled alert box with the heading "Heads up!" and your message beneath it.

#### Other alert types available:

- info highlights helpful information.
- warning flags something users should be careful about.
- success indicates an action completed successfully.



• danger – calls out critical issues or errors.

```
Section: Image Handling

Images can be added with Markdown:

![Alt text](/assets/img/example.png)

Or with custom HTML for controlling size:
```

<img src="/assets/img/example.png" style="width:500px;" alt="Example">

#### **Section:** Quotes

Use > for blockquotes:

> This is an example of a blockquote.

## **Chapter:** Table of Contents in Sidebar

**Section:** Manual generation of TOC in Meshery Docs

Meshery Docs sidebar navigation is built from the **TOC (table of contents)** in YAML. Example:

#### toc:

- title: Docs
 subfolderitems:
 - page: Setup

url: /project/contributing/contributing-docs

TOC ensures chapters and sections appear in the sidebar hierarchy (parent  $\rightarrow$  child  $\rightarrow$  grandchild).



## Chapter: How Docs are Versioned

**Section:** Meshery maintains multiple versions of documentation. This ensures users can reference docs matching the Meshery release they're running. Contributors may need to:

- Add content under the current version folder.
- Update links and redirects for older versions if the content moves.
- Ensure breaking changes in Meshery are documented clearly in the right version.

## **Chapter:** Writing Tips and Resources

**Section:** <section>

- **Clarity first**: Write as if explaining to a newcomer.
- **Keep it consistent**: Follow the tone/style already used in Meshery Docs.
- Use active voice: e.g., "Run make docs to serve the site."
- Link generously: If content is explained elsewhere (e.g., tutorials, CLI guides), link to it.
- **Test locally**: Always preview your edits before PR.

#### Resources:

Jekyll Docs Liquid Templating Meshery Docs Contributing Guide

**Tutorial:** Contributor Training Series: Working with Meshery Docs (Zihan Kuang)

**Course:** Contributing to Meshery UI

Chapter: Meshery UI

**Section:** Overview

**Section:** Architecture

ReactJS, NextJS, Material UI, BillboardJS, CytoscapeJS, Redux Toolkit, Sistent, Schemas



Section: Design

Userflow/Wireframing/Mockups - Figma files

Design Goals

**Section:** Setup Development Environment

Linting, install UI dependencies, build and export UI, Run Meshery server, UI development server

**Section:** Meshery server API's

REST API, GraphQL API

## Quiz

Chapter: Schema-Driven UI Development

**Section:** Overview

**Section:** Repo Structure

**Section:** Schema Drive UI Development Workflow

- Define or update the schema

- Generate TS types and Schema objects

- Build and export
- Use schema

Section: Integration Points in UI

- RJSF
- General Form UI
- UI-Specific Description
- Type Safety

**Chapter:** Sistent Design System

## Quiz

-



**Section:** Intro to Notification Center

**Chapter:** Dashboard Widgets

**Section:** Notification Center overview

## Quiz

**Chapter:** Notification Center

**Section:** What is a Notification Center

**Section:** Metadata Formatter

Section: How Notification Metadata is Rendered

**Section:** Repository Structure

NotificationCenter/ (Root Directory)
formatters/ (NotificationCenter/formatters)

**Section:** Types of Event Specific Notification Formatter

- Common Formatter
- Error Formatter
- Model Registry Formatter
- Relation Evaluation Formatter
- Dry Run Formatter
- Deployment summary Formatter
- Property Formatters and Property Link Formatters



## Quiz

**Tutorial:** Contributor Training Series: Meshery UI (Amit Amrutiya)

**Course:** Contributing to Meshery CLI

Chapter: Building CLI

**Section:** <section>

**Chapter:** Documenting

**Chapter:** Designing commands Guidelines

**Chapter:** Unit Testing

**Chapter:** End-to-End Testing

**Tutorial:** Contributor Training Series: Meshery CLI (Aadhitya

Amarendiran and Matthieu Evrin)

Course: End-to-End Testing in Meshery UI using Playwright

Chapter: < Chapter>

**Section:** <section>

**Tutorial:** Contributor Training Series: E2E Testing in Meshery UI (Ian

Whitney)

**Course:** End-to-End Testing in Meshery CLI using BATS

**Chapter:** Introduction

**Section:** About Mesheryctl



## **Chapter:** Setup Local Development Environment

**Section:** Prerequisites

Meshery CLI + Meshery Server installation Provider account (e.g., Layer5 Cloud) Kubernetes cluster (optional for k8s-related tests) Tools: bash, jq, yq for processing JSON and YAML inputs

**Section:** Setup BATS core

MacOS (homebrew) Any OS (npm) Windows (from source via bash)

**Section:** Setup Dependencies

**Section:** Starting Meshery Server

Running Meshery for E2E tests Using make server When adapters/K8s are needed

**Section:** Authentication

**Chapter:** Folder Structure and Naming Conventions

**Section:** Understanding Meshery Repo Directories

meshery/meshery repo overview

Directories: /mesheryctl, /server, /tests/e2e

**Section:** E2E Test Folder Structure
Walkthrough of mesheryctl/tests/e2e
Explanation of helpers, setup/teardown scripts

**Section:** Test Naming Conventions

- Folder prefix (e.g., 002-model/)
- File prefix (e.g., 01-model-list.bats)
- Consistency rules

**Chapter:** Run End-to-End Tests Locally

Make sure you are in the meshery/mesheryctl directory



**Section:** Running All tests

make e2e (with build)

make e2e-no-build (without build)

**Section:** Running Specific Command Test Suite

make e2e-no-build BATS\_FOLDER\_PATTERN=<test folder name>

**Section:** Running Specific Test Files

make e2e-no-build BATS\_FILE\_PATTERN=<test folder name>

BATS\_FILE\_PATTERN=<test command name>

**Section:** Alternative Test Execution

Run tests with already built binary
 Using bash run\_tests\_local.sh

Enforce rebuilding the binary
 Forcing rebuild with -b flag

Chapter: Finding Issues to Work on

**Section:** Navigating Open Issues Epic issue: meshery/meshery#14031

Create a sub-issue or comment down for the command you want to write tests for, or get yourself assigned a task under this area.

Track other tests progress, feel free to add reviews, and also take inspiration from how others have written the tests

**Section:** Using the Meshery Test Plan Accessing the Meshery Test Plan (Sheet Views)

**Chapter:** Writing Tests with BATs

Official documentation is available at https://bats-core.readthedocs.io/en/stable/

The GitHub organization https://github.com/bats-core contains the bats-core repository and also the bats libraries repositories



**Section:** BATs Basics and interacting with mesheryctl

@test blocksRun command executionCapturing status and output

**Section:** Assertions

assert\_success, assert\_failure
assert\_output, assert\_output --partial
assert\_equal, file assertions

**Section:** Setup and Teardown

Using setup() and teardown() to manage test environment

**Chapter:** Developing Your Tests

**Chapter:** Best Practices for Quality and Coverage

**Section:** Ensuring Quality

Use existing BATS utilities, avoid reinventing scripts
Keep test files clean, externalize data in fixtures
Add test scenarios in your PR, so that they can be added to the Meshery Test Plan

**Section:** Ensuring Coverage

Test core functionality
Test command flags
Test covering errors thrown by the command and invalid input files

**Chapter:** Reporting Bugs during Test Development

**Section:** Identifying bugs while writing tests

**Section:** Using the "mesheryctl Bug Report" template

**Section:** Providing Detailed Reports

Steps to reproduce

Expected vs actual behavior Logs and environment details



**Section:** Linking Back to Tests

Mentioning the test case and file in the issue

Tutorial: Contributor Training Series: E2E Testing in Meshery CLI (Riya

Garg)

Course: Build and Release

Chapter: < Chapter>

**Section:** <section>

**Tutorial:** Contributor Training Series: Meshery CI (Sangram Rath)

**Course:** Meshery Server

Chapter: < Chapter>

Section: <section>

**Tutorial:** Contributor Training Series: Meshery Server (Shlok Mishra)

**Course:** Meshery Models

**Chapter:** Models

**Section:** What are Meshery Models?

What exactly is a model? What can a model represent? Why are Models important in Meshery? How do Models help me manage apps, services, and infrastructure?

**Section:** Core Constructs of Model

Components, relationships, policies, connections and credentials, designs, patterns, metadata

**Section:** What is Model Schema

What's a schema, and why do we need it?

How is a schema different from the actual Model?



**Section:** Portability, Registry, and Intellectual Property

Why package models as OCI images?, What is a Registry and a registrant?

**Section:** Design Principles behind Meshery Models

**Section:** Entity Lifecycle in Meshery

Breaking down the confusing terms Schema, Definition, Declaration, Instance

**Section:** Capabilities in Model

What are capabilities?

**Section:** Importing model

**Section:** Creating a model

**Section:** Post-Generation Enrichment

**Section:** How models are versioned

**Tutorial:** Contributor Training Series: Meshery Models (Aabid Sofi)

Labs:

**Chapter:** Components

**Section:** What Are Components?

**Section:** Semantics vs Non-Semantics Components

**Section:** Component Properties

**Section:** How to Contribute New Components

Prework:

1. Understand Model Generation and Packaging

- Components exist within Models
- Read through [Contributing to Models] first; without a model, a component is homeless
- 2. Customize Component Metadata & Representation
  - Form-based Representation



- Visual Representation

#### Development

3. Create Component Definition as a JSON file

4. Component Authoring Best Practices and Considerations

5. Contributing your component to the Meshery Project

**Chapter:** Relationships

**Section:** Introduction to Relationships

**Section:** Types of Relationships

**Section:** The Mechanics of Relationships

Anatomy of Relationship, Selectors, Actions, Operators

**Section:** How to create new Relationships

Prework - Relationship Identification, Relationship Classification

Development - Create a Relation definition as a JSON file, Configuring scope

Postwork - Testing and contribution

Course: Meshery Schema

**Chapter:** < Chapter>

**Section:** <section>

**Course:** Meshery Policies

**Chapter:** < Chapter>

**Section:** <section>

**Course:** Meshery Adapters

**Chapter:** 

Certification

Learning Path: Mastering Contribution to Meshery

