



Istio Community Meeting

Working Doc

What you need to know

1. [Join this Google group](#) so you'll always get meeting invites.
 1. **Add items to the agenda!** If you want to demo or lead a discussion on a topic, propose it here. If you have a question that you'd like the team to respond to, add that as well. We'll include as much content per meeting as we can, and if we have more content than time we'll include it for the next w.
2. Interested in presenting? Join and share → [here](#) ← or fill in this form
3. Share with others in the community and get them involved!
4. Bookmark [this URL](#) to quickly get back to this doc
5. 10am US/Pacific, on the fourth Thursday of every month
6. Check the [Istio Community Calendar](#) or [CNCf calendar](#) to find out what's happening and which Thursday it is!
7. Join the call at [meetup zoom link](#).
<https://calendar.google.com/calendar?cid=aTEwb2dmNThtcmZicnNqYWk1cWkxNmc0ZG9AZ3JvZXZlZ29vZ2xILmNvbQ>

2024-6-27 1PM ET/10AM PT

[Add this event to your calendar](#)

[Join us via Zoom](#)

<https://zoom.us/my/istioproject>

Agenda:

- Welcome
- ***Latest istioctl changes which you can leverage for ambient profile*** by **Jeremy Morris**
 - Layer 7 Waypoint operations
 - specify waypoint traffic scope (e.g. service, workload, all or none)
 - preview yaml for updating waypoint traffic scope
 - name waypoints

- label the current namespace to use the waypoint
- Layer 4 Ztunnel troubleshooting
 - ztunnel-config command to inspect ztunnel proxy configuration
 - show workload information
 - show certificates
 - show all parts of the ztunnel configuration
- ***How [Splunk](#) built an abstraction layer to ease Istio's configuration* by Bernard Van De Walle**

About the speaker

Jeremy Morris

Jeremy Morris (@MorrisLaw93) is a Senior Software Engineer at Microsoft. He has been a contributor to many open-source projects in the cloud-native ecosystem, primarily working at companies in the cloud provider space. Previously, Jeremy was a Kubernetes co-maintainer focused on Cluster API at DigitalOcean and worked on DigitalOcean's managed Kubernetes product. Jeremy is now working at Microsoft on the Azure Service Mesh Upstream team as a contributor to Istio. Recently earning the role of Istio UX maintainer, Jeremy is interested in improving the user experience of Ambient with a focus on areas like Waypoint traffic management and Ztunnel.

Bernard Van De Walle

Bernard is a traffic engineer at Splunk. He is leading the Istio and service Mesh efforts as part of the traffic engineering team. Before this, Bernard had experiences with operations for large scale deployments of Kubernetes and reverse proxies such as Envoy and Nginx.

2024-5-30 1PM ET/10AM PT

[Add this event to your calendar](#)

[Join us via Zoom](#)

<https://zoom.us/my/istioproject>

Agenda:

- Welcome

- Understanding Ambient Policy Enforcement by **Ian Rudie**
- Latest istioctl changes which you can leverage for ambient profile by **Jeremy Morris**
– **Please carry this over as 1st topic for next community meeting**

About the speaker

Ian Rudie

Ian Rudie is a software engineer working on Open Source at Solo.io, currently focused on Istio Ambient and ztunnel. He has spent time in infrastructure in telecommunications, financial services and consulting including managing a large fleet of Istio clusters and modern cloud-native API gateways. Ian enjoys mentoring new contributors, solving infrastructure problems at scale, and open source software.

Jeremy Morris

Jeremy Morris (@MorrisLaw93) is a Senior Software Engineer at Microsoft. He has been a contributor to many open-source projects in the cloud-native ecosystem, primarily working at companies in the cloud provider space. Previously, Jeremy was a Kubernetes co-maintainer focused on Cluster API at DigitalOcean and worked on DigitalOcean's managed Kubernetes product. Jeremy is now working at Microsoft on the Azure Service Mesh Upstream team as a contributor to Istio. Recently earning the role of Istio UX maintainer, Jeremy is interested in improving the user experience of Ambient with a focus on areas like Waypoint traffic management and Ztunnel.

2024-4-25 1PM ET/10AM PT

[Add this event to your calendar](#)

[Join us via Zoom](#)

<https://zoom.us/my/istioproject>

Agenda:

- Welcome and quick update about our upcoming Istio 1.22 release
- Special guest speaker Saarko Eilers: Explore Istio ambient Mesh from EISST International

2023-11-30 1PM ET/10AM PT

[Add this event to your calendar](#)

[Join us via Zoom](#)

<https://zoom.us/my/istioproject>

Agenda:

- Welcome and announcements
- Istio 1.20
 - Highlights
 - Demos
 - Performance update

2023-02-23

[Add this event to your calendar](#)

[Join us via Zoom](#)

Meeting ID: 858 6071 2936

Passcode: 904523

Agenda:

- Welcome and announcements
- **Demo: NSM + Istio across cluster communication by Denis Tingajkin**
The example shows how the default Istio booking example can be converted into an interdomain example via NSM. We'll run the demo on AWS and GKE clusters.
- About the speaker: Denis Tingajkin is a Senior Software developer at Xored Inc. Go Developer with in-depth experience in service meshes. He works with NSM which helps organize a network access to services on L3-L7. See more about NSM <https://networkservicemesh.io/>. He participates in everything from CI/CD and deep network configuration and security.

Q&A session

2022-11-17

[Add this event to your calendar](#)

[Join us via Google Meet](#)

Video call link: <https://meet.google.com/kjd-hvht-nnk>

Meeting ID: 858 6071 2936

Passcode: 904523

Agenda:

- Welcome and announcements
- **Demo: The future of Istio is sidecarless by Christian Posta**
In this talk we dig into the future of Istio, which I work on, to show how Istio can be run in a sidecar-less mode.
- About the speaker:

Christian Posta (@christianposta) is VP, Global Field CTO at Solo.io.

He is the author of Istio in Action as well as many other books on cloud-native architecture and is well known in the cloud-native community for being a speaker, blogger (<https://blog.christianposta.com>) and contributor to various open-source projects in the service mesh and cloud-native ecosystem (Istio, Kubernetes, et. al.). Christian has spent time at government, commercial enterprises as well as web-scale companies and now helps organizations create and deploy large-scale, cloud-native, resilient, distributed architectures. He enjoys mentoring, training and leading teams to be successful with distributed systems concepts, microservices, DevOps, and cloud-native application design.

- Q&A session

2022-09-29

[Add this event to your calendar](#)

[Join us via Zoom](#)

Meeting ID: 858 6071 2936

Passcode: 904523

Agenda:

- Welcome and announcements
- **Demo: NSM + Istio across cluster communication by Denis Tingajkin**
The example shows how the default Istio booking example can be converted into an interdomain example via NSM. We'll run the demo on AWS and GKE clusters.
- About the speaker: Denis Tingajkin is a Senior Software developer at Xored Inc. Go Developer with in-depth experience in service meshes. He works with NSM which helps organize a network access to services on L3-L7. See more about NSM <https://networkservicemesh.io/>. He participates in everything from CI/CD and deep network configuration and security.
- Q&A session

2022-08-25

[Add this event to your calendar](#)

[Join us via Zoom](#)

Meeting ID: 858 6071 2936

Passcode: 904523

Agenda:

- Welcome and announcements
- **Demo: Multi-cluster Istio Mesh - Complex or Piece of Cake?**

Setting up and then preserving a multi-cluster Istio mesh is cumbersome today, as it involves several manual steps. Those steps are not automatic, because there is no continuous synchronization mechanism between the participating clusters. Laszlo will show an almost fully automated solution that can form and then sustain a multi-cluster Istio mesh using an open-source Istio operator, and a cluster registry controller component, which provides continuous synchronization for the necessary resources between the clusters. In this session, you will learn:

- How to form a multi-cluster mesh with ease
 - How the necessary resources are synced between the clusters
 - How the system recovers even when network endpoints are changed
-
- About the speaker: Laszlo Bence Nagy is a software engineer with Cisco's Emerging Technologies and Innovation group. In his role, Laszlo works with anything cloud-native, mostly Kubernetes, Istio and with the open-source Cisco Istio operator. He spent two years as part of Banzai Cloud before that company was acquired by Cisco. He has also previously worked on distributed storage systems for multiple cloud platforms. He has authored several blog posts, mostly around Istio: <https://techblog.cisco.com/authors/laszlo-bence-nagy/>
 - Q&A session

2022-07-28

[Add this event to your calendar](#)

[Join us via Zoom](#)

Meeting ID: 858 6071 2936

Passcode: 904523

Agenda:

- Welcome and announcements
- **Demo: You probably DON'T need a Service Mesh**
Service Mesh is becoming a key component in the Cloud Native world. It allows teams to connect, secure and observe complex microservices environments built on containers and container orchestration tools. But most Service Mesh tools are also very complex and require a lot of engineering overhead to deploy and maintain. In this talk, we will explore the considerations you have to take into account before you commit to a Service Mesh-based stack.
- About the speaker: Abdelfettah Sghiouar, Cloud Developer Advocate @Google
Senior Cloud Developer Advocate @Google. Focused on GKE/Kubernetes, Anthos, Service Mesh and Serverless.
- Q&A session

2022-06-23

[Add this event to your calendar](#)

[Join us via Zoom](#)

Meeting ID: 858 6071 2936

Passcode: 904523

Agenda:

- Welcome and announcements
- **Demo: Running Local Multi-cluster install by Mudit Agarwal**
Learn how to set up two local minikube/kind clusters on two different laptops and to make them work as Primary/remote.
- About the speaker: Devops Engineer at Publicis Sapient. He is passionate about cloud native tools and technologies, networking and security.
- Q&A session

2022-05-26

[Add this event to your calendar](#)

[Join us via Zoom](#)

Meeting ID: 858 6071 2936

Passcode: 904523

Agenda:

- Welcome and announcements
- **Demo: Missed IstioCon? Catch up on key takeaways!**
Missed IstioCon? We got you covered. Lin Sun, IstioCon program co-chair will join us in this meetup to cover highlights and few key takeaways, along with her favorite few sessions at the conference, to help you easily navigate the recordings of the 5 day virtual events.
- About the speaker: Director of Open Source at [Solo.io](#)
She has worked on service mesh since 2017 and serves on the Istio Technical Oversight Committee. Previously, she was a Senior Technical Staff Member and Master Inventor at IBM for 15+ years. She is the author of the book "Istio Explained" and has more than 200 patents to her name.
- Q&A session

2022-03-24

[Add this event to your calendar](#)

[Join us via Zoom](#)

Meeting ID: 858 6071 2936

Passcode: 904523

Agenda:

- Welcome and announcements
 - [Add topics here](#)

- **Demo: My blog is running on Istio!**

Many think that running Istio is hard due to its complexity, operational cost, and resource requirements. In my presentation I'd like to demystify the most popular service mesh by sharing details of my self-hosted infrastructure. He will share some details on how he can spin up an exact replica of his blog under seconds while having the extensive benefits of a service mesh, e.g. observability.

- About the speaker:

Krisztian is enthusiastic about observability and cloud infrastructures. He's working at LastPass as senior DevOps/SRE engineer and building a self hosted blog on top of Istio in his spare time. The main topics of the blog are aligned with his interests while he is also using the platform to share operational details on running one of the most "over-engineered" blog out there.

- Q&A session

2022-02-24

Add this event to your calendar

[Join us via Zoom](#)

Meeting ID: 858 6071 2936

Passcode: 904523

Agenda:

- Welcome and announcements
 - [Add topics here](#)

- Demo:

Scaling Istio in Large Clusters by Auto-Generating Sidecars by Cathal Conroy

Sidecar resources are key to scaling Istio in large clusters, but configuring Sidecars requires a detailed registry of every given workload's peers. What do you do if your org maintains no such registry? What if service names are dynamic? This is the story of how we used NetworkPolicies to auto-generate Sidecars for hundreds of services, spanning many technical orgs and teams.

- About the speaker:

Cathal Conroy is a DevOps Engineer III at Cloud Platform Engineering (Workday)

Irish engineer working with Workday in Dublin, Ireland. Over his three years with the Public Cloud team, he has helped to orchestrate and maintain the Workday platform over many regions throughout the world. More recently, he has been one of three engineers tasked with onboarding Workday and its hundreds of services to Istio Service Mesh. This proved to be a multi-year journey, filled with many ups and downs much like any enterprise-scale migration.

- Q&A session

2021-11-18

Agenda:

- Presentation

Infrastructure Engineers at Airbnb. Edie and Ying are from the Cloud Foundation team at Airbnb. They are both working on building and rolling out AirMesh, Airbnb's next generation service mesh.

- Demo:

Airbnb has been using an in-house service mesh called SmartStack since 2013. In the past 12 months, they migrated hundreds of production services onto our next generation of service mesh based on Istio. Come learn more about how we achieved service mesh migration with minimal service owner involvement and zero downtime. They will cover their migration strategy for different kinds of workloads and showcase the migration tool they built.

- Discussion topics:
 - Add topics here
 - Add topics here

2021-10-28

Agenda:

- Presentation

Software Engineer in a fintech startup company. Skilled DevOps Engineer with 6 years of experience. Expertise in AWS, Kubernetes, Helm, Ansible, Terraform, CI/CD, helping organizations instill Devops for the modern age.

- Demo:

Dedicated to optimisation, experienced DevOps Engineer understands the melding of operations and development to quickly deliver code to customers. In this talk we will implement Service Mesh Encryption using Istio and will demonstrate using sample applications.

- Discussion topics:
 - Add topics here
 - Add topics here

2021-9-23

Agenda:

- Intro: Presentation

Demo: "How Istio bring excellent observability to HP Common platform" by Lisa Feng & John Zheng

For large platforms that support hundreds of projects, it is vital to gain insight into the api response code, api response time, api numbers, while monitoring and precisely alerting. Istio can easily achieve these requirements, without any changes to service code. In addition, troubleshooting in a complex service mesh is always troublesome and time-cost. However, through integration of Istio and jaeger, they can combine client requests, tracing, Istio logs, and application logs altogether. In this way, when a problem

occurs with the api, it is easy to locate. In this session, HP devops will share their best practices in cluster observability, hoping to bring useful references for everyone.

- Q&A session
- Discussion topics: [ADD HERE](#)

2021-8-26

Agenda:

- Intro (5'): Presentation

Zufar is a Cloud Platform Engineer with 3 years of experience in the industry. In Gojek, he helps developers build a secure, high-performing, resilient, and efficient Kubernetes infrastructure for applications and workloads, mostly with Istio. He also loves to contribute to open-source projects and help to organize CNCF meetups in Indonesia.

- Demo:

In this meetup, he will talk about migration of workload, archiving disaster recovery, and implementing active-active in Kubernetes between cloud providers is always painful. We will learn about the Istio multicluster pattern that is implemented on GoPay and can be used to easily achieve this kind of activity.

- Discussion topics:
 - [Add topics here](#)
 - [Add topics here](#)

2021-7-29

Agenda:

- Intro (5'): Presentation

- Demo:

- When your services are deployed on hundreds of kubernetes clusters, app engine and other deployment platforms, ensuring the progressive speed, resilience and observability of the infrastructure becomes a nightmare for an SRE team. Radical adoption of different tools to create gateway setups for each of these infrastructures, makes things more complicated and painful to maintain in the long run. This talk describes how we created a HyperMesh using Istio, that connects this kind of distributed infrastructural nodes from a single point, with distributed responsibility across teams and a central point of control by the SRE.

2021-6-24

Agenda:

- Intro (5':
 - [\[ADD ITEM HERE\]](#)
- Community updates:
 - [Add action item here](#)

- Demo:
 - How to maximize Istio with zero knowledge via Self Service by Isan Rivkin, Team Leader, Production Engineering at Similarweb and Rotem Shriki, Production Engineer at Similarweb. Configuring Custom Helm charts for complex setups is hard. Especially when using Istio security, networking, and visibility features there is a prerequisite of learning Istio. Assuming you get all your R&D to learn Istio, what happens if you want to change your service mesh provider? At Similarweb we created a new platform for serving and configuring Helm charts in a simple and intuitive way via UI that requires low maintenance and zero UI skills for infrastructure teams. We will present the problem, the idea, and how you can solve it in a similar way for your organization.
 - Special announcement: We will be open-sourcing the solution.
 - [Link to slide deck](#)
- Discussion topics:
 - [Add topics here](#)
 - [Add topics here](#)

2021-5-27

Agenda:

 Happy 4th Birthday Istio  

- Intro (5'):
 - Today we are celebrating 4 years in the open source world. Join us for a presentation about contributions that have helped build Istio. In order to be eligible for Istio swag, participate by asking a question or commenting. It is that easy!
- [Presentation](#):
 - Using Istio in Production at Salesforce by Pratima Nambiar, Software Architect, Salesforce. At Salesforce we migrated our service mesh platform from an in-house control plane to Istio in production. We had to make several contributions to the open source Istio project in order to get ready for production. We will cover a few of those contributions.
- Closing:

2021-4-22

Note: if you attended today's meetup, your feedback is much appreciated by filling out this 2 minute survey → <https://forms.gle/A3AM728tEt98m7FS8>

Thank you!

Agenda:

- Intro (5')
- Community updates:
 - [Add action item here](#)
- [Demo](#): "WASM filters for data observability" presented by Nilesh Dalvi & David Chandler of <https://layer9.ai/>. They will describe how they built a custom filter using web assembly and demonstrate its application for sampling service traffic, mapping dependencies, detecting schema changes, enabling anomaly detection and more

- Layer 9 Trail here: <https://layer9.ai/trial/>
- Discussion topics:
 - Add topics here

2021-3-25

Agenda:

- Intro (5')
- Community updates:
 - Add action item here
 - Add action item here
- [Demo](#): "Istio Cookbook: Kiali Recipe" presented by Lucas Ponce, Principal Software Engineer, Red Hat. Kiali is a management console for Istio. It provides dashboards, observability and lets you operate your mesh with robust configuration and validation capabilities. This demo will summarize practical examples of Istio using Kiali in Observability, Traffic Management and Security scenarios.
- Discussion topics:
 - Add topics here
 - Add topics here

2021-2-25

Note:

 In lieu of the monthly meetup we hope you are able to join the community at [IstioCon](#) Monday, Feb 22 - Friday, Feb 26 from 8am - 1pm PT.

 Thursday, Feb 25 we are hosting a social hour from 12pm - 1pm PT.

More details to follow.

2021-1-28

Agenda:

- Intro (5')
- Community updates:
 - IstioCon is coming soon! Feb 22-26 <https://events.istio.io/istiocon-2021/>
 - Action item
- Demo: "Multi-cluster Istio operations," Istio control planes across multiple clusters including configuration, security, and Web Assembly (Wasm) presented by Christian Posta, Field CTO, Solo.io.

2020-11-19

Agenda:

- Intro (5')
- Demo: "What's new and exciting in Istio 1.8?" presented by Neeraj Poodar, Co-founder & Chief Architect, Aspen Mesh (30')
New features and improvements in Istio release 1.8 like Helm v3 workflow for installing Istio 1.8 release and the new istioctl bug-report tool to gather cluster state to aid debugging your mesh
- Discussion topics:
 - - Add topics here
 - Add topics here
-

2020-10-29

Agenda:

- Intro (5')
- Demo: "Multi-cluster Kubernetes and Service Mesh Patterns" presented by Denis Jannot, Director, Field Engineering at Solo.io (30')
- Discussion topics:
 - KubeCon NA sessions: Istio Community Meetup: Thursday, November 19 · 10:00 – 11:00 am PT
 - Lin Sun is presenting: <https://events.linuxfoundation.org/servicemeshcon-north-america/program/schedule/>
 - Mitch Connors: <https://sched.co/fDAx>
 - Add topics here
-

2020-10-15 - CANCELLED

Agenda:

- Community Testing
- Meeting not started? Or zoom url changed?+1
 - Meeting Cancelled. Sorry for not cancelling invite.

2020-10-01

- No meeting today!

2020-09-17 [[video](#)]

Agenda:

- [Lifecycle Survey](#)
 - Please take it so we can make informed

- How would people feel about submitting (anonymized) data about their clusters?
 - Some companies would be interested but couldn't
- [Election](#) underway!
 - 10 days left to vote
 - Look for an email from civs@cs.cornell.edu
- Upcoming changes to Community Meeting
 - Moving to once a month
 - Moved to structured content
- Q1 Virtual conference
 - Date undecided.
 - Contributors? Users? Partner? TBD! Watch this space.
 - Aspen Mesh sees needs for users/training. Could be part of it.
- Open the floor?

2020-09-03 [[video](#)]

Agenda:

- [Lifecycle Survey](#)
- [Steering Committee changes](#)
- [Election](#)
 - (self) nominations due 2020-09-06 00:00 UTC

2020-08-27 [[video](#)]

Agenda:

- [Steering Committee changes](#)
- [Election](#)
- Istio 1.7
 - [Announcement](#)
 - [Change Notes](#)
 - External content:
 - [Hoot: What's New in Istio 1.7](#)
 - <https://banzaicloud.com/blog/istio-1.7/>
 - <https://developer.ibm.com/blogs/istio-1-7-hybrid-cloud/>
 - <https://www.solo.io/blog/istio-1-7s-improved-vm-support-step-by-step/>

2020-08-20

As everyone is at KubeCon, we've moved this meeting back a week to 27 August.

2020-08-06 [[video](#)]

Agenda:

- [Mesh Dynamics](#) demo: Enabling developers of Istio applications to debug & test code changes in their IDE without needing a dev cluster. (Venky Ganti: venky.ganti@meshdynamics.io)
 - Q: What permissions are needed for data capture.
 - A: Just the permissions to deploy the Lua capture filter. Customers apply the Lua filter in their staging environment, doing it in production is less common but possible.
 - Q: Some of the data that flows in this traffic is likely to be confidential, where does this data go? A cloud service?
 - A: Because we're focusing on the CI pipelines, the data is less sensitive. But many companies still have sensitivities, so we have an on-prem deployment option for them. Many customers use the cloud service though. There are also hooks for both obfuscating and encrypting the data before it is shipped to Mesh Dynamic services.
 - Opinion: Sometimes it can be hard to work locally if the resources needed are too many. Remote development is common in this scenario.
 - Clarifying question: Is the main bottleneck availability of resources, or that your laptop isn't powerful enough to run the containers?
 - A: It depends on what resources you depend on, you cannot bring them locally. E.g. databases
 - Venky: You can let those databases be remote, you don't have to make them be local.
 - Rahul: A use case we see a lot is mocking external services that are called like Twilio
 - Maltron: Mocking takes a fair amount of time
 - Venky: Definitely, this tool is designed to make that quick, because Istio can capture during the CI time
 - Kevin Conner: There are multiple approaches to attack this problem, there are many historical tools that were developed. There are also additional tools in the Istio community:
 - Squash - allows attachment of remote debugging sessions
 - Telepresence - allows you to proxy requests from the cloud down to local services
 - Link to [istio-workspace demo](#)
 - This is another option that seems like it will be of great use in some environments
 - Maltron: Many users of Istio seem to be networking operators, not developers, this seems like a valuable tool for developers?
- Thoughts on Microsoft's Open Service Mesh?
 - Sean: New, less used than Istio
 - Maltron: Competition like this can lead to new innovation
 - Sean/Kevin: The initial push is all from Microsoft

2020-07-23 [[video](#)]

Please note that this meeting is the first one at **10am US/Pacific time**; one hour earlier than before!

Sign up to give a Demo or to lead a Topic Discussion! Add whatever you'd like to talk about to the agenda outline below, and please include your name or email.

Agenda:

- PR for Steering Committee charter has been updated. [Updating Steering Committee charter · Issue #361 · istio/community](#)
- [1.7 status](#)
- [Check out August 5 CNCF webcast on debugging with Istio](#)
 - *Featuring Neeraj and John, (TOC Member and WG lead)*
 - *Box added to community calendar*
- *Add things here*

2020-07-09 [[video](#)]

Agenda:

- 1.7 status
 - Check out [the sheet](#), yo
- Calendar update - new time for this call is 10am
- ["Google is announcing that the Istio trademarks will be transferred to a new organization"](#)
- [Central Istiod](#)
- For Nicola: using revisions in Istio for upgrades/downgrades. Please join the [environments working group](#) for detailed questions about this topic. From Helm ([preliminary documentation](#)).
- PR to update steering committee charter: <https://github.com/istio/community/pull/361>
- Q&A:
 - *We run istio in production for more than one year and we always deployed and updated it using the helm charts.*
We are currently migrating from version 1.4.7. to 1.5.4 using the same approach: we took the helm charts of the release istio-1.5.4/install/kubernetes/helm, applied the same configurations and installed. This way of installing istio prevent us to use the new istiod "architecture" and will not be applicable for version 1.6 as far as we understand.
While investigating how to upgrade to version 1.6 in a non disruptive way we realized that there is no clear guidance about that.

It would be great if someone can elaborate about the installation/upgrade pattern with concrete and production ready approach examples! (Nicola Bianchi - ricardo.ch)

(Vicente De Luca) In regards multi-cluster replicated control planes: in my simplified use case, I have two K8s clusters (1 and 2), each of them a mirror of each other in terms of workload running (service names and namespaces are the same).

i.e: acme.mynamespace.svc.cluster.local exists in both clusters and they need to call each other.

When following the istio documentation to create a .global stub zone, I'll end up with name collision in both service and namespaces dimensions.

*I think it is possible to configure one stub zone per K8s cluster name and the according ServiceEntries, so on cluster 1 I'd be able to call my remote service using acme.mynamespace.**cluster2** -- rather than a single .global zone.*

Can anyone think of a hard stop or any implications of this approach ?

2020-06-25 [[video](#)]

Agenda:

- Istio in 5 minutes: <https://www.youtube.com/watch?v=hkR1M6qwpnw> (askmeegs)
- Shweta Singh - TPM from Google helping to coordinate Istio releases
 - Highly recommends attending TOC meetings...high level decisions are being made there
 - With 1.7, each WG has presented to TOC their prioritized lists of features (along with status: alpha/beta/etc)
 - Did a retrospective on the 1.6 release. Key points were improvements necessary for documentation and automated testing.
 - Istio 1.7 release date: 11 August. Testing days are planned for 29 July and 4 August.
 - Istio 1.8 planning will start in mid July. Watch for the newsletter (which gets published on discuss.istio.io)
- CNCF has a service mesh performance group within the Networking SIG.
 - Want to make it possible for people to weigh the *value* of the mesh against the costs: latency, CPU, RAM.
 - Want a standard by which people can measure the performance of their particular deployment
 - Working on Service Mesh Performance Specification as a standard. Let people measure their environment, tune their environment.
 - <https://layer5.io/performance> is a deck with details
- Service mesh patterns (<https://layer5.io/books/service-mesh-patterns>)

- Deployment patterns
 - Adoption patterns
- Discuss <https://github.com/istio/istio/issues/24243> [Sudeep Batra]
 - Would like 2 different control planes
 - Wants 2 completely separate service meshes side-by-side in the cluster
 - ostromart did write a PR to allow operator to watch different namespaces...but it does not meet the use case of 2 completely separate meshes
 - Concerned that the whole issue has not been fixed
 - Reason: each vendor has its own implementation of control plane -- want to share a cluster but have completely different service meshes (different config, lifecycle, etc).
 - Recommendation: Sudeep come to the Environments Working group meeting (Ericsson)

2020-06-11

Agenda:

- Demonstration of Resource Status in Istio 1.6 [Mitch Connors, <5 minutes]
 - <https://istio.io/latest/docs/reference/config/config-status/>
 - <https://istio.io/latest/docs/reference/config/analysis/>
 - User experience topic in Istio discuss: <https://discuss.istio.io/c/UX/23>
- Can we address the old issue(sidecar annotation alone in pod is not honored) : <https://github.com/istio/istio/issues/15619>
 - Maybe update the documentation - <https://preliminary.istio.io/docs/ops/configuration/mesh/injection-concepts/>
- Support and behaviour of Istio on pods configured with dual interface (using multus cni plugin for example).
 - Master PR (merged) - <https://github.com/istio/istio/pull/24426>
 - 1.6 PR (merged) - <https://github.com/istio/istio/pull/24477>
 - 1.5 PR (needs conflicts addressing) - <https://github.com/istio/istio/issues/24478>
- Can we have a preliminary steps to build multiple istio control plane within a single kubernetes cluster : Ref: <https://github.com/istio/istio/issues/24401>
- [jmoter] Vault support ever coming back?
 - <https://github.com/istio/istio/issues/21961>
-

2020-05-28

Cancelled? (dockercon conflict)

2020-05-14 [[video](#)]

Agenda:

- Status of 1.6 release
 - Release currently on schedule (early next week)
 - Rc.0 out - please try it!
- [Istio could supports multiple data planes? such as MOSN #423753](#)
 - WASM: Istio telemetry v2 has a dependency on WASM. How could this play out with a different data plane?
 - Possible test themself, do we have a process?
 - GRPC data plane
 - Windows support isn't in Envoy yet.
 - Levels of compatibility based on functions
- WASM direction and stability
- Gateway issue SDS - need to open an issue
- What should i expect the behavior to be. I have many services in the cluster. If X of my services don't have port named, what will i lose or get?
 - Istioctl simulate on a pod/service to tell users what functions are ready to be used? Cisco has a similar product called packet tracer. Trace request going through.
- Host header is the same gmail.com for many services and passed through among services. Currently use IP based routing.
 - Worthy highlight in the doc? Host header is reserved and used to route destination in istio.
- Jon Yucel - running sidecar for short lived jobs - we would welcome an istio.io blog!
- ~~Anil from Amdocs presents performance tests~~

2020-04-30

Agenda:

- Current status of [Istio 1.6 Release](#)
 - Not enough participation yesterday!
 - Next Testing Day: May 11 ([Istio 1.6 Community Testing Sign-up Sheet](#)) And, of course, you don't need to wait until the testing day to test!
 - Release date: May 19
 - [Release notes WIP](#)
- Mass infusion of interns in May and June
- Q: What does Thomas Kurian's comment on Istio's foundation status mean to the Istio community?
 - Istio has always been committed to open governance, this doesn't change that.
 - The main goal of placing Istio into a foundation is to ensure that the trademark is managed by a neutral party and usable by partners and users in an open fashion.
- Anil from Amdocs gave report on latency. Found 4ms latency at p90 (higher than published 2.5). Also found vCPU around 0.5, RAM was 100-200MB.
- SMI framework. Any plans?

- Haven't seen demand from customers for this
 - More plans to align with Kubernetes APIs (e.g., Gateway APIs)
 - Our focus is not on "lowest common denominator" approach
- Multicloud in 1.6
 - One master cluster running a control plane, one cluster that is "remote." Fix to docs will make that clearer (do you want them zonally, regionally, global).
 - This will subsume the existing docs.
 - Uses existing implementation
 - More complicated for multitenant, and that may come in a patch release or 1.7
 - New testing is coming in 1.6 to verify these
 - There is a post-install step for "connecting" the clusters. May optimize that later.
- VMs: more work coming in 1.7
- Thinking about running

2020-04-16 [[video](#)]

Agenda for next meeting:

- Review [1.6 timeline](#)
 - [Istio 1.6 Community Testing Sign-up Sheet](#)
- Intern season is upon us. Please raise issues for areas that you would like to see attention.
- [Christian Posta - solo.io] - Istio multi-cluster support and service-mesh-hub OSS project.
- [Mohammad Banikazemi - IBM Research] - Deep Dive WASM experience
Mohammed will take everyone through his experience for creating, publishing and using WASM plugins with Envoy/Istio. This is a great opportunity to see the value and current state of developing WASM plugins as well as ask questions and provide feedback to drive future work.

2020-04-02 [[video](#)]

Agenda for next meeting:

- [1.4.7](#) and [1.5.1](#) CVE and stability release
- [Jon Moter] Support for using Kubernetes as CA for Citadel?
 - Please ask on <https://discuss.istio.io/>
- Jon Yucel - running sidecar for short lived jobs
 - Killing sidecars
 - Timing issue, sidecar race
 - <https://github.com/monzo/envoy-preflight> as open source option
 - github.com/maistra
 - [Telepresence & squash work](#) (Aslak & Bartosz)
- Lin - mentioning the weekly newsletter being distributed with updates from the WGs
- Ram - keep an eye on the blog section <https://istio.io/blog/2020/>
 - Hints for what is coming in 2020

- How istiod will impact you
- WASM updates etc.

2020-03-19

Agenda:

- (EGDS discussion was moved to networking group [\[link\]](#))
- Kiali team would like to present a short 5 or 10 minute presentation on latest features in Kiali.
- Solo to show WASM + Istio (5-10m)
- Is there any sample for running elastic-search (Stateless) with mTLS enabled on istio?
- What is the path where the certs / pem are stored in the istio 1.5 envoy proxy container?
- What is the best way to validate the mTLS traffic in the case of a service to a Stateful workload?
- [Jon Moter @ Zendesk]: with 1.5, can you change from deploy via Helm chart to deploy via Operator? Will Operator handle that?

2020-03-05

Agenda:

Releases:

- 1.4.6 was released Tuesday, addressed 4 vulnerabilities.
 - 1.3 was EOL on 2/14, so it was *not* patched.
- [Roadmap post](#) was published this week
 - Istio agent is running in the same pod
- This week: 1.5 release will happen this afternoon at some point.
 - This does contain the security fixes
- Cardinality and prometheus
 - We think of the Istio prometheus as a short term cache
 - You should run a production instance as well, can ensure you are only storing the metrics you care about
 - Will publish a best practices guide soon
 - Would love community involvement!

2020-02-20

Agenda:

- Safely develop and test on any kubernetes cluster using Istio - A demo
 - Aslak Knutsen & Bartosz Majsak
 - <https://github.com/Maistra/istio-workspace>
 - <Will retweet video of demo when ready - next couple of days>

- Istio 1.5 Community Testing on Feb 25th 8am - 12pm PST:
<https://docs.google.com/spreadsheets/d/1KQ5eDZnzXTu8Tj0KTjGpXtvyFLHSV M5WgQn6P2MCaMl/edit#gid=1817277800>
- <open discussion and questions>

2020-02-06

Agenda:

- [Istio 1.3.7](#)
- Istio 1.5 update
 - March 5
 - 2 community testing days Feb 18th and Feb 25th
 - We'll send out more details (look out for a spreadsheet)
 - Automating the istio.io docs and automate test cases
 - Check the istio wiki
- Operator, istiod (Lin Sun)
 - Currently, we have multiple ways of install. Istioctl is the recommended way to install. It gives you one single command.
 - Operator: <https://github.com/istio/operator>
 - In 1.5, helm template will be deprecated and move it to a separate repo.
 - Might consider helm 3 in the future. No interest in tiller based deployment as of now.
 - istioctl generate and the operator use the same API
- Demo: istioctl analyze, describe, add-to-mesh (Ram Vennam)
- Any upcoming events?
- Q&A
 - 1.5 Improvements
 - Microservices -> Monolith control plane (istiod)
 - Simplifies installation
 - Better communication with each other
 - Telemetry v2 (extensibility features moved into Envoy)
 - Should expect huge improvements
 - Eliminate mixer as single point of failure
 - All sidecars used to have to talk to a centralized mixer - eliminate this (control plane in the flow of request)
 - With policy in sidecar, this middle component is not needed.
 - Telemetry and policy improvements

- What is the performance impact of the envoy proxy doing more work now? (now that it's doing policy and telemetry)
 - Network latency should be dramatically improved, but runtime (CPU/Size) impact is unknown
- Will Telemetry v2 support all the existing adapters?
 - It will require mixer adapter to be updated to support new architecture
 - Couple of them are built-in
 - Community is working on best practice to update adapters to work with v2. Likely not immediately available.
- Can Telemetry v2 and traditional mixer co-exist?
 - Yes, during the transition period.
- If i want to switch from helm template install to the new operator or istioctl, what is the process?
 - istioctl manifest generate will be similar to helm template -> to generate yaml and then do a rolling update.
- There are now 3 different ways of install...matrix of features and running Istio...that vary from version to version. How are users expected to parse this?
 - Agree, the goal is to fix this.
- Is the new installer cloud agnostic?
 - We don't envision much difference, but we will need to rely on community testing to confirm and find any gotchas.
 - Because we're building on Kubernetes, the abstraction helps with the compatibility.
 - With multi-cluster, there might be some differences as we move from one cloud to another.
- RBAC -> Authorization Policy: <https://istio.io/blog/2019/v1beta1-authorization-policy/>

2020-01-23 [[video](#)]

Agenda:

- Istio 1.5 update
 - Christian's blog: <https://blog.christianposta.com/microservices/istio-as-an-example-of-when-not-to-do-microservices/>
- Any upcoming events?
 - Portshift team is organizing an Istio event in Israel.
 - They are looking for speakers and finalize date.
 - Ping Dan Ciruli if you are interested
- More examples from Megan:
 - Secure ingress: <https://twitter.com/askmeegs/status/1207416043565703169?s=20>

- Fault injection:
 - <https://twitter.com/askmeegs/status/1219722353271365634?s=20>
 - [istiobyexample.dev](https://istio.byexample.dev)
- Istio explained 5 min video from Ram:
 - <https://twitter.com/RamVennam/status/1204799389644066816?s=20>
- Istio explained free ebook from Lin and Dan:
 - <https://twitter.com/dancberg/status/1216001793987096576?s=20>
- Kubernetes Podcast: Invention, IBM and Istio, with Lin Sun
 - <https://kubernetespodcast.com/episode/086-invention-ibm-istio/>
- ServiceMeshCon CFP: <https://events.linuxfoundation.org/servicemeshcon/> Due February 4th
- DataDog Blog post for Istio: <https://www.datadoghq.com/blog/istio-metrics/>
 - Did a really nice job for different CRDs
 - Different approaches to explain stuff, super useful.
 - Describe how to monitor something is really useful to understand Istio
 - How do I know when something is going wrong?
- Craig Box is working on improving docs, and bring partners into content creation.
- 1.3 vault support is removed.
 - Users are interested in using vault as the external CA for istio.
 - Prefer to have secrets in locked down vault.
 - Dan Ciruli will follow up on this.

2020-01-09

Agenda:

- Istio 1.4
 - [Change Notes](#)
 - [Istio 1.4 Feature Tour video](#)
- AutoMTLS Demo [GregHanson]
- Istio VM Support [Sven]
 - [WorkloadEntry Design doc](#)
 - DNS, Identity Bootstrapping, Debugging
- Q&A

2019-12-12

- Canceled

2019-11-14

Agenda:

- Istio at KubeCon
 - [ServiceMeshCon](#)
 - Istio Voyage meetup <http://istio.voyage>
 - Informal meetups?
 - FREE Istio lab on Monday:
<https://events19.linuxfoundation.org/events/kubecon-cloudnativecon-north-america-2019/co-located-events/> > Advanced Kubernetes Cert: Learn How to Build Your Next App with Kube, Istio, & Advanced Services like Watson hosted by IBM Cloud
- Open discussion

2019-10-31

Agenda:

- 1.4 Schedule
 - 10/16 code freeze and branch has occurred
 - [The Great Bug Bash](#) (Oct 22 and 29)
 - [Istio Github Reports](#)
 - Planning 11/14 release
- Happenings
 - Pop-up Istio Meetup in Ottawa on Nov. 5 from 6pm - 8pm
<https://www.meetup.com/Kubernetes-Ottawa/events/266087431/>
- Istio support discussion
 - K8s supports n-2
 - Istio currently support n-1
 - Should we support n-2?? Open for input.
- [Istio engineering page](#)
- Megan O'Keefe to speak on "VM Mesh Expansion"
- Istio 1.4.0-beta.0 - Sreeni
 - HELM / Tiller install for 1.4.0 is broken
 - 1.4.0-beta.2 will be released today with a fix.
 - mTLS not working
 - Documentation does not reflect actual implementation of mTLS
(<https://github.com/istio/istio.io/issues/5267>)
 - Upto 1.3.3 SERVER and CLIENT have mTLS/HTTP when we use istioctl. In 1.4 it has STRICT and ISTIO_MUTUAL but does not work as per the documentation.
- How should we implement mTLS for headless services? Is the approach in the link (<https://medium.com/airy-science/making-istio-work-with-kubernetes-statefulset-and-headless-services-d5725c8efcc9>) recommended? It does it without mTLS. What is the way

to implement mTLS on top of it? - Sreeni (I am not able to join istio.slack.com with my email sreenivas_mr@yahoo.com)

- <https://preliminary.istio.io/faq/applications/#elasticsearch>
- <https://github.com/istio/istio/issues/14743>
- John - Vault integration appears to be removed from Citadel
 - Removed in 1.3 due to issue found in Istio 1.3
<https://github.com/istio/istio/issues/17572>
 - This is a temporary restriction due to issues found when testing against Istio 1.3.
 - Not using SDS mode.
- Open Floor

2019-10-24

- Meetup Pro? Meetup strategy?

2019-10-17

Agenda:

- 1.4 Schedule
 - Branch has occurred
 - Community testing day 1: October 22nd.
 - Community testing day 2: October 29th.
 - Planning 11/14 release
- Happenings:
 - Raleigh meetup at AllThingsOpen (Lin Sun of IBM and Christian Posta of Solo)
 - After the AllThingsOpen event (lots of service mesh discussions)
 - Lin did an overview of 1.3, with a live demo of the new features/utilities
 - Christian talked about how to *adopt* a service mesh. Reasons to do it, and approaches for adopting it. Takeaway: start simple. Start at the edge. (Solo has API management, which can then redirect to Istio Gateways).
 - Lee (Layer5) delivered an Istio workshop using Meshery to deploy and explain various aspects of Istio through BookInfo.
 - Video: Multi-tenant ingress. (Christian and Sandeep Parikh of Google):
 - <https://www.youtube.com/watch?v=HO7pqNUbUFk>
 - Megan O'Keefe gave a *great* "intro to Istio" talk in Boulder:
 - bit.ly/istio-boulder-slides
 - bit.ly/istio-boulder-demos
- Sidecar and performance improvements
 - <https://twitter.com/pmoncadasla/status/1184395890435465216>
 - Issue: Dev clusters: have more deployments, more services...so they take up more resources!

- Solution: use the [Sidecar](#) resource to tell Istio what downstream dependencies you have...so your Envoy only gets the info it needs, not the complete set
 - Other solution: upgrade to 1.3!
- Istio mTLS and headless queries (Sreeni)
 - When I enable namespace level mTLS i get the error “upstream connect error or disconnect/reset before headers. reset reason: connection failure”
 - Graph does not show service to service traffic flow
 - Does the main branch of istio support headless services now? Is there any istio config to be used for headless services or do they work out of the box? If pods are individually assessed do they still go through the envoy? [answer: Dan Berg doesn't think you need to do anything special, but Sreeni hasn't gotten it working with Zookeeper's stateful workload]
 - Does this help? https://github.com/istio/old_issues_repo/issues/268
 - Dan Berg's suggestion: “istioctl authn tls-check” (run this from the pod -- even from pod A to service X)
- discuss.istio.io is a great place to ask questions! Durable (compared to istio.slack.com)
- Lots of cool stuff happening in `istioctl`
- Dapr (<https://dapr.io/>) from Microsoft launched, how does it compete or complement istio?
- Archy is wondering about Meetups -- are we planning support for Meetup Pro
- Jon:
 - we are using Fortio for load testing. Is that the most common one? It generates load and provides a server for visualizing results
 - How do we automate
 - Recommendation: Try Environments Working Group
 - Running 1.3.
 - Some numbers from 1.3 [perf testing](#)

2019-10-03

Agenda:

- [Recording](#)
- Intro
- (neeraj): Overview on new [External Service](#) telemetry capabilities added in 1.3.1
 - Addresses gaps where if services were blocked or ‘allow any’
 - Need more help in the telemetry WG to improve usability with this
 - Q: Does this just hit telemetry, or is there more for traffic analysis?
A: Sniffing DNS queries for external services, presents that info.
 - Added some features around traffic sniffing ~ prototypes in, and hopefully available in 1.4. Useful for egress traffic from sidecars (direct or through proxy) - goal is to understand traffic even without declarations

- Working on visibility for traffic failures especially with mTLS failures, target is 1.5, but hopefully 1.4
- (neeraj): DevFest Montreal updates
 - Archy was the host
 - Istio workshop was popular, Neeraj gave a great dev intro to Istio (thanks!) > 100 people in the track, > 30 people in the workshop
 - Coyote using in prod?
- (mokeefe) DevFest Capital Region @ Albany
 - Istio intro talk - ~30 attendees, lots of interest :D
- (rcaballeromx) Tour of Istio 1.3 by Megan O'Keefe: <https://www.youtube.com/watch?v=pmCsAgNTAoM>
- Enabling Istio mTLS between services on an existing k8s cluster?
 - Are there any tools which can be used ensure the mTLS communication between services?
 - All services live in the same namespace
 - megan: I use `istioctl authn tls-check <pod>` to check traffic type (for mutual tls, want to check server and client).
 - also kiali service graph → "security" checkmark (can see traffic type there)
 - Ram: Grafana will also label traffic as mTLS.
- Boulder Kubernetes Meetup
 - Megan O'Keefe talking [Istio One YAML at a time on October 9](#)
- (ram) KubeCon Day 0 FREE [Istio Workshop](#): Advanced Kubernetes Cert
- 10/14 - Christian Posta + Sandeep Parikh giving a webinar. Overall theme is "Using Istio in production" Giving an overview of new features each quarter. This time, focus on Istio ingress (and security options there).
 - + with Lin Sun @ all things open (Raleigh, NC Oct 15th)
- Security release coming next Thursday - TBD
- Q&A with Louis, et al.
 - Rolling out mTLS: <https://istio.io/docs/tasks/security/mtls-migration/>
 - Destination rules and load balancing: <https://istio.io/docs/concepts/traffic-management/#destination-rules>

2019-09-19

Agenda:

- Recording! Thanks to Jaice.
- Update from CCROSS from Rigs & Lee
 - Knowledge gap to start but people got to deploying apps and dashboards
 - 7 hour workshop (wow!) all in Spanish
 - The workshop included the [Spanish intro deck](#).
 - Lee is holding the pain of his hangover this against Dan C.

- Content was well received as well
 - [Introducing people gently to microservices](#) was very helpful
- Meetup NYC
 - Smallish crowd with *excellent* discussion
 - Dan Ciruli: Accelerating with Service Mesh: <https://www.youtube.com/watch?v=AKe3cTruIWM>
 - Megan O'Keefe: 1.3 Feature Tour: <https://www.youtube.com/watch?v=pmCsAgNTAoM>
 - Dan Ciruli will take on documenting best practices
 - Roundtable discussion was fantastic
- ProgNet 2019 London, .Net core on K8s (PKS), Harbor and Istio 3 hrs workshop code - Sreenivas Manyam Rajaram (Pivotal/VMWare) https://www.linkedin.com/posts/sreenivas-manyam-rajaram_prognet2019-pivotal-istio-activity-6580162727686340608-8ae0
 ~ 65 attendees, lots of excitement about the magical qualities of Istio
- Update on [ServiceMeshCon](#)...any talks accepted?
 - No one here apparently
- 1.3 impressions/congratulations ~ hitting our quarterly release cadence!
 - [Release Notes](#)
 - [Blog](#)
 - [Upgrade notice](#)
 - LOTS of new content in docs.
 - [Deployment Models](#) concept is great!
- The LF/CNCF has asked Lee to create Service Mesh training.
- Archy and Montreal GDG Dev Fest. 9/27
 - <https://www.meetup.com/Google-Cloud-Platform-Meetup-Montreal/>
 - <https://devfest.cloud-montreal.ca/>
 - <https://devfest.cloud-montreal.ca/>
 - I'm a developer, should I care about a service mesh? By Neeraj@AspenMesh
 - Istio workshop by Lee Calcote and Girish
 - Will have a workshop
 - Looking for a panel
- Looking for docs on new adapter
 - Jupiter will contact Dan about the new architecture
 - And Rigs will make sure we have thorough documentation

2019-09-05

Agenda:

- Record this!
- New releases:

- <https://istio.io/blog/2019/announcing-1.1.14/>
- <https://istio.io/blog/2019/announcing-1.2.5/>
- Java issue [16391](#) is fixed in both releases
- 1.3 release update
 - Help with Testing is much appreciated! The latest pre-release is [1.3.0-rc.1](#). The last pre-release (1.3.0-rc.2) will be built on Friday 9/6 afternoon PT and is expected to become the official 1.3.0 release.
 - Istio Deployment models concept is merged, [PTAL](#)
 - Please update the [1.3 Release Notes](#) draft.
 - Final release hope to get out next week (9/10).
- Upcoming Community Event:
 - Sreenivas Manyam Rajaram from Pivotal (VMWare) presenting 3hrs PKS/Harbor/Istio lab on Sep 12 th 2019 in London
<https://skillsmatter.com/conferences/11690-prognet-london-2019#program>
 - Lee Calcote and Rigs Caballero are facilitating an Istio workshop at CCSS in Guadalajara, Mexico September 15th.
<https://ccoss.org/schedule/2019-09-15?sessionId=w-istio>
 - Lee Calcote and Ayrat Khayretdinov, Girish Istio workshop at Cloud Devfest in Montreal, Canada September 27th.
<http://devfest.cloud-montreal.ca>
 - NYC Meetup @ Google NY (9/16) - istio-nyc.eventbrite.com
- Open for discussions
 - Operator:
 - landed in 1.3? or only CLI for 1.3 (as part of istioctl - experimental command) `istioctl x [manifest](#)`
 - not an “operator” yet, only a CLI
 - contact Martin Ostrowski
 - start test-driving now, continue into 1.4 - use the Operator install guide, not just the command reference
 - New doc: <https://preliminary.istio.io/docs/concepts/deployment-models>
 - Organizations with heterogeneous infrastructure - authentication for services inside the cluster. creating trust relationships?
 - future versions - best practices patterns, extend from Concepts
 - <https://preliminary.istio.io/docs/tasks/traffic-management/egress/egress-control/>
 - <https://preliminary.istio.io/docs/examples/mesh-expansion/>
 - Conference acceptance:
 - What happens if you have 2 workloads in a mesh, Istio-injected, mTLS *not* enabled -- is the traffic encrypted?
 - PERMISSIVE mode allows HTTP traffic (plain text, non mTLS)
 - Kiali shows you when traffic is plaintext vs. not
 - not controlPlaneSecurityEnabled Helm flag - this is for TLS enabled for control plane components, not data plane traffic

- Automating Istio validation - recommendations on how to validate install for administrators (operator/human, “mesh admin,” who installs + lifecycles Istio for developers). including checks -- TLS working? policy checks? telemetry?
 - [istioctl verify-install](#)
 - API call to check istio control plane health?
 - not detailed enough for telemetry?
 - [istio-vet?](#) - not designed for operators?
 - work underway to improve validation for 1.4. for 1.3, istioctl `validate` (not 1.3?) and `describe` (YAML validation in a live cluster). expanded in 1.4 (status updates, eg. referenced a Gateway that does not exist)
 - target audience: anyone creating Istio config, TBD whether that falls under an operator, admin, or developer/user role?
 - blurry lines
 - Meeting - Validation part 2 - Tuesday - 10am pacific

2019-08-22

Agenda:

- Java Issue:
 - <https://github.com/istio/istio/issues/16391> (Istio breaks java.net.http.HttpClient introduced as incubating in Java 9 and stable in Java 11)
 - Fix in Envoy is on the way...details to come
 - Doesn't apply to Spring or other Java clients
 - Can be worked around by explicitly setting headers (see [this PR](#) from Saturnism)
 - PR submitted upstream to Envoy, patch releases coming early next week
- 1.3 Testing days upcoming! (towards Sept. 10th target release date)
 - Tuesday 27 August
 - Tuesday 3 September
 - Details on both calendar
- Istio Deployment Models concept PTAL: <https://github.com/istio/istio.io/pull/4813>
- Please fill out our [Contributor Summit Interest Survey](#)
- Upcoming events
 - Istio Meetup NYC, 16 September (Monday).
 - Looking for lightning talk speakers: <http://bit.ly/istio-nyc-cfp>
 - Register to attend: <https://www.eventbrite.com/e/istio-meetup-nyc-tickets-69729411547>
 - ServiceMeshCon (colocated with Kubecon)
 - Details: <https://events.linuxfoundation.org/events/servicemeshcon-2019/>
 - CFP: (closes August 30) <https://events.linuxfoundation.org/events/servicemeshcon-2019/program/all-for-proposals-cfp/>
 - [CCOSS](#) September 14-15 in Guadalajara, Mexico

- Discussion
 - % of contributors on the call vs. end-users? (mostly contributors)
 - encourage community participation (Tweet before meeting w/ agenda?)
- Help the Steering Committee improve processes! [Fill out the contributor survey](#). Thanks! <http://survey.istio.community>
- Istio Performance and Scalability Working Group recap -- Mandar Jog discussing an independent study of performance benchmarking. Goal -- help inform users adopting service mesh. (Independent + vendor-neutral.)
 - <https://layer5.io/meshery/>
 - related: <https://istio.io/blog/2019/performance-best-practices/>
 - Lee Calcote: "A call for anyone who has specific test cases or workload-types or Kubernetes configurations, etc. that they would like to see tested - - we'd like to include those in the upcoming Meshery suite of tests."
 - collab. w/ Cornell and U.T. Austin
 - goal: "any app should just work w/ Istio" especially for telemetry -- more test coverage to get there
- Banzai Cloud + Kafka + Istio -- Istio mTLS more performant than native mTLS
 - <https://banzaicloud.com/blog/kafka-on-istio-performance/>
- Anonymous feedback tool? (complicated re: data access + data protection), for now, relying on anecdotal data
-

2019-08-08

Agenda:

- [Istio 1.1.12](#), and [Istio 1.2.3](#)
 - <https://discuss.istio.io/t/upcoming-security-updates-in-istio-1-2-4-and-1-1-13/3383>
- Meeting is here: <https://zoom.us/j/986657835>
- Istio.io testing -- framework for automated samples testing in place
 - Rigs: Link to the testing framework: <https://github.com/istio/istio/tree/master/pkg/test/istio.io>
 - Rigs: help needed to create tests [[spreadsheet](#)]
- Blogs, Tutorials, Content from last few weeks?
 - istiobyexample.dev -- ping askmeegs@ if you have suggestions!
- Feature improvements + updates for 1.3 - 1.4?
 - SIG Environments
 - new build system → improved developer toolchain (Make, Docker, a text editor)
 - want involvement!
 - SIG Test and Release -- recent test day for istio.io (part of Code Mauve).

- turnout: 20 people, organized by RedHat
 - test istio.io vs. what code actually does
 - Goal: improve Istio quality
- Istio Operator --
 - when will it be released?
 - Stable TBD. 1.3 = devel-level operator
 - 1.3 = install only, no upgrade yet (but on the roadmap)
 - values.yaml → import to operator
 - operator deploys “micro-templates”
 - what will it address? ^^
 - what about multicluster?
 - unclear if part of 1.3 right now (may be released independently or as part of istioctl) -- definitely not ready for production in 1.3
 - goal: make multicluster setup easier
 - TBD if operator will be integrated into istioctl (may be separate binary)
- Multicluster Updates
 - 3 patterns right now
 - 6 different “dimensions” See the [proposed table of contents](#).
 - ^ goal: compress into 1 “Concepts” doc (work ongoing), targeting 1.4
 - exciting work from the Environments + Networking WGs
- Istio 1.3 testing days upcoming:

<https://discuss.istio.io/t/announcing-istio-1-3-testing-days/3380>
- SIG User Experience
 - Meets every other Tuesday -- need more people! including end-users.
 - Ed Snible demoed `istioctl inspect` for a pod (which VirtualServices, DestinationRules are relevant for this pod?), helps debug / identify which resources match. Still WIP.
 - CRD status field -- `kubectl describe <istio-crd> ..` -- if config is actually in effect
- Where is the 1.3 roadmap?
 - detailed roadmaps handled by each working group
 - Want to improve -- map features to github issues
 - See the latest status on the features here:

<https://preliminary.istio.io/about/feature-stages/>
- Conferences, Meetups?
 - Kubecon NA day zero -- [ServiceMeshCon](#). CFP closes August 30th
 - Mitch Connors is considering an Istio Contributors Summit during kubecon? (focus on usability?)
 - Jaice: right now Day Zero is overloaded with events? (envoycon, k8s contributor summit, servicemeshcon). Istio-specific event at a different time or location?
 - Rigs: 1st Summit of Open Source Contributors in Latin America ([CCOSS](#))
- [istio.community](#) → how to join community events

- Dan: add items to agenda doc. it's world-writable. This is a community meeting -- if there is a topic you want to hear about, you own the agenda. :)
 - a pre-set agenda can be circulated + help drive more attendees.
- help needed for the docs -- Rigs can help you onboard. it's a great way to get started with Istio, community, WGs.
- over 100 companies have now contributed to Istio 🎉

2019-07-24 [recording]

- Hi Nancy Avinger and Adam Miller! :) (Tech writers)
- Jaice Singer DuMars will be sending a new Zoom invite for this meeting.
- Dan Ciruli: Istio Meeting/Meetup Kit proposal to help grow the community
 - istio.io About page -- tips for hosting a meeting
 - Ram Vennam: (Voluntary) registry of Istio speakers and their locations?
 - Decks
 - Anyone interested in running an in-person meeting?
 - *how to help: tweet at **danciruli@***
- Collab w/ Kubernetes Roadshow? (co-located Istio workshops?)
- Standardizing on "Service Mesh" → get word out on companies using Istio in production
 - [Pismo](#) (Payments processing platform using Istio)
 - prospective users are asking who's using Istio.
- Meetup section of the docs site
- Istio Egress Livestream hosted by Christian Posta and Sandeep Parikh happened this morning, link here: <https://youtu.be/hjTLSaK4PH8>
 - first in a series, video after every minor release. want to hear from users in the future.
- Service Mesh Con (colocated Kubecon event) -- Jaice spoke to LF to ensure Istio will be featured.
- Istio Multicluster -- how to do cross-region clusters?
 - Lin Sun: [Environments WG](#) meeting (Wednesday)
 - Users are welcome in Working Group meetings!
 - This group working on Operator
- Istio Operator Status
 - lots of changes happening. community trying to reach consensus on features. and whether it will land in 1.3 as Alpha (TBD)
 - there *is* consensus that the operator will handle install and upgrade
 - Multicluster operator -- has not reached consensus. will likely be a standalone tool to support different multicluster deployment models
- When to move from Helm to the installer during this transition time?
 - installer = customizable install to namespaces + security + flexibility

- depends on amt. of risk willing to take
- <https://istiobyexample.dev/retry/>
 - tweet suggestions: askmeegs@
 - contributions welcome! <https://github.com/askmeegs/istiobyexample>
- We would love public declarations from users adopting Istio :) Medium posts etc!

2019-06-27 [recording]

- Congrats on v1.2!
 - Met quarterly release target (thanks Lin and Francois)
 - Looking for 1.2 feedback
 - Post on Discuss or Slack
 - Patches are in progress
- Louis Ryan (TOC & Steering member) on future directions
 - Check out the [latest episode of the Kubernetes podcast](#)
 - More Istio users are looking for a roadmap
 - From a presentation:
 - Large scale feedback is driving the roadmap, e.g. delivery of policy and telemetry triggering latency in high load architectures
 - Mixer for policy checks not efficient due to snapshot handling
 - Envoy already has this capability, so move functionality there (e.g. RBAC moving to Envoy in 1.1)
 - WASM for dynamic extensions ~ run native code in the browser, good bet
 - API to load modules, can be done dynamically in Envoy
 - Can also implement Istio features, e.g. runtime for RBAC filter - ship updates without having to update the Envoy portions
 - Default networking:
 - Zero-config user experience ~ implement the features that limit toil wrt to protocols, ports, and default behaviors -- time from install to usage is nearly instant
 - Protocol detection (mostly http/tcp)
 - Transparent proxy, especially for traffic into pod - some of this in 1.2, which allows eliminating container ports for pod ingress, also makes startup faster. On egress, you can skip L7 LB and lower proxy startup time
 - Install and upgrade UX better
 - Operator for common topologies - in progress since Feb, and can ship separately, e.g. July? Look for an update in coming weeks
 - New install layout - facilitates upgrades, and the ability to run 2 control planes at the same time and canary them
 - VM onboarding easier than the current recipe book in bash, also including best practices

- Layering - how people think if it in operational best practices
 - Clearer boundaries between project layers
 - Fewer, more targeted APIs
 - Differentiate between core and extensions, not necessarily the same as features. e.g. RBAC as a feature on top
 - Networking API & extension API
 - Ecosystem for extensions - so you can layer on top, then move them in as features once vetted. Vendors and users should be able to add these organically over several releases
 - Control plane for gRPC, allowing mesh-like behavior without having to use all the components
- Q: Reduced set of functionality from the control plane?
 - A: LB across endpoints/policies MTLS assembly, gRPC team exploring the implementation esp. http routing, telemetry, etc. Istio API lets you pick the telemetry vendor, configs to gRPC just control existing telemetry, discussing the generic areas of telemetry that can be core API, and the rest to extensions.
- Q: As arch evolves, mapping between components will change, and impact the areas where resource utilization happens. How do we map these moves and changes?
 - A: For a majority of implementations, mixer disappears. Lower CPU due to the changes/simplifications - custom mixer plugins still supported.
- API design change methodology ~ can we add functionality to anon report usage
 - Will ask for open ended input / focus groups re: usage ~ more info will be coming ~ snapshots not continuing collection, also use alongside surveys. Looking at custom resources/config, not traffic.
 - JM: Non-prod systems ok, maaaaaybe prod with caveats?
- Mixer changes: not all in 1.3, mixer adapters ~ need to get feedback on proposed changes so we can evaluate impact and migration. Dan will work with folks to get this data (likely after July). WASM work happening in Envoy.
- Q: What is the best mechanism to discuss deep/custom use cases?
 - A: Raise the question in Slack, see if it needs a consult.
- Future meetups
 - Atlanta, 7/16
 - Service Mesh Meetup, links coming soon and will be on the community calendar

2019-06-13

- **Cancelled.** We will use this time to do 1.2 community testing - see details on community calendar on how you can help out.

2019-05-30 [recording]

- Discussed issue with wildcard + ingress gateway with certs. Requested the user to open an issue.
- Discussed about KubeCONEU and SMI.
<https://kubernetespodcast.com/episode/055-solo-io/>
- Updated on Istio 1.2
- Discussed speaking upcoming sessions
- Sreenivas Manyam Rajaram, from Pivotal has a “Istio + K8s for .Net Micro Services” session / labs in London ProgNet 2019. Please find more details below.
<https://skillsmatter.com/conferences/11690-prognet-london-2019#program>

2019-05-15 [recording]

- Dan Ciruli: Move to discuss.istio.io
 - Open up Slack
 - Some preferred other options over Google groups
 - The Steering committee decided to move to discuss.istio.io
- Meetup in Barcelona:
 - Monday 20 May, 18:00. Location: Cor23 (www.cor23.com)
 - Speakers
(<https://www.meetup.com/Barcelona-CNCF-Istio-Meetup/events/261434631/>)
 - Lee Calcotte, Solar Winds (will speak about their adoption)
 - Idit Levine, Solo.io
 - Pablo Moncada Isla, Spanish Telco
 - IBM performance analysis: (Idan Zach/Etai Lev-Ran)
 - 1.2 update/Roadmap: Louis Ryan
 - Codefresh: Dan
 - Tufin: Reuven Harrison
 - Q&A w/ contributors (Louis Ryan, Lin Sun, Dan Berg, Sriram, Ram Vennam)
- Rigs Caballero: Changes to [site structure](#):
 - FAQ is a top level section
 - Operations Guide is now a top level section of Docs
 - Glossary is under docs/reference
- Michael Kipper did a second performance test of Istio. [Writeup here](#).
 - Looking forward to Mixer v2 -- results in tremendous improvements
 - Next up: studying tail latencies
 - Interested in performance in federation
- Question about roadmap
 - ToC and Iryan are producing this

- Dan Ciruli will take the AI of publishing it on istio.io
- Jon Moter from ZenDesk asked: where can people *in* implementations talk to each other?
 - They are in the CNCF End User group, that's been very useful.

2019-05-02

- Istio 1.2 release update
 - The desire is to get back to a quarterly release cadence
 - 3 months after 1.1 is in June
 - In ~3 weeks there will be a code freeze to support the June release
 - The goals of this 1.2 release:
 - Operator installer framework support.
 - The operator will be released a little later after 1.2, but the needed Istio changes will be in 1.2
 - Operator is expected to release ~July (1 month after 1.2)
- Is there a public roadmap for Istio? Specifically, I'm curious when Istio Gateway is tentatively targeted for GA?
 - A lot of people already use this in production
 - Costin notes that the API is beta, but the implementation is considered production ready
 - Because we support older versions of K8s, we are forced to have "alpha" in the name of the API, so this means that we'll be able to remove the "alpha" designation when we stop supporting old versions of K8s
 - Q: What is the policy around old K8s version support? People on the call can't quite remember, but think it's the last 3-4 versions of K8s.
 - On the Istio feature states page ([link](#)) the Gateway: Ingress/Egress line is noted that this is at a "stable" level
 - Kops is still on 1.11, which is technically an unsupported version of K8s, but pragmatically this means that Istio should still support 1.11
 -
- What are the features & functionality of the upcoming operator
 - Main point is to allow easier installation & upgrades
 - Because it is an actual program, it can take care of doing actual operations during upgrades, examples:
 - like rolling upgrades
 - If certain policies are enabled, it could configure/install other components as needed
 - Will the operator become the preferred way to install Istio?
 - We will continue to support Helm
 - We mostly agree that the operator will be the preferred method to install, unless a user knows they need some other method

- Discussion about supported versions
 - A note from Jon Moter (jmoter@zendesk.com) - 9 months after a release to have support for the previous releases is a little short for some users ([Release cadence doc](#))
 - We'd like to have longer support, but there are still meaningful changes. Current users should try to be upgrade-able frequently
 - Security teams on some companies require users to be on supported versions of software
 - Q: If Istio did have a longer term support mechanism, say 12 months, would that still be a problem with K8s being on a N-2?
 - Yes, that seems like a pickle.
 - We note that long-term we want this to be a "boring" product that doesn't require a lot of constant upgrades
 - Costin notes that we might have different support windows for things like the Envoy/Sidecar (that might be installed in a VM off of K8s) vs the control plane and the K8s-based components
 - We note that the Operator has a goal of allowing upgrades to be much easier (e.g. eliminate the need to do a lot of YAML editing in lock-step with an upgrade)
 - We note that it's more difficult to write these Operators when there are major architectural changes.
 - Major architectural changes need clear communication, and that is the plan
- Rigs @ Google
 - Released a public version of useful pictures for making architecture diagrams
 - https://docs.google.com/drawings/d/14eM3aPdmRtsCR2zcibVicomApaW7x11fdE_uwLG4ZXA
 - This is a template with shapes, it's not a draw.io extension
 - It takes accessibility into account in terms of color-blindness
- Q: How to give feedback about docs?
 - Feel free to send Rigs an email: grca@google.com or Slack: rcaballeromx
 - Also: Open issues against <https://github.com/istio/istio.io>
 - There is a documentation working group - see [working group meetings calendar](#)
- Little discussion about making Istio easier to adopt
 - Operator is just one thing along the direction of making Istio easier to adopt, there will be more in the future.
 - Documentation can also help on this
 - A particular note is raised about giving some examples of use case of the Gateway would be helpful. The examples section is one of the most useful ones
 - A little note about examples: Useful to highlight what parts of the example configs are hard requirements and what parts are specific to the example environment
 - An example of a thing that is maybe too hard to configure:
 - "I want to do a rate limit of Redis"
 - You have to create 5 objects that all have to relate to each other

- Are there any plans to make this simpler?
 - There is recognition of the problem
 - User Experience [working group](#) meets [every other Tuesday](#)
 - No new proposal yet, but it's an active area of discussion
- New K8s customize functionality might help with there being a framework to create abstractions more easily with templates

2019-04-18 [[recording](#)]

2019-04-04 [[recording](#)]

- DockerCon OSS Summit - <https://www.docker.com/dockercon/agenda/opensource>
 - Want to get involved? Contact Lee. --> agenda [details](#).
- Curious to know the support for Istio in Windows K8 containers - Sreenivas Manyam Rajaram
- I just added ability to deploy Istio using Terraform
<https://github.com/mingfang/terraform-provider-k8s/tree/master/solutions/istio>, Ming Fang.
- Canadian events around Istio (looking for speakers CFP is open):
 - June 11 (F1 Weekend :)) - CloudNativeDays Canada
<http://www.cloudnateday.ca/en/program/>
 - Sep 24th GDG DevFest Montreal - 1 day event with Service Mesh Track and Workshop
 - GDG DevFest Vancouver
- New performance page: <https://istio.io/docs/concepts/performance-and-scalability/>
- Lin Sun is doing a Istio 1.1 Deep Dive webinar:
<https://register.gotowebinar.com/register/2212833519174846209>
- Can someone explain “load-shedding functionality to Mixer workloads” ? It is from this page: https://istio.io/blog/2019/istio1.1_perf/ - Issue to be opened to add description to Glossary. Partially answered [here](#).

2019-03-21 [[recording](#)]

- Thank you Lee Calcote for hosting today's meeting!
- [Mitch] 1.1 update on performance and scale - significant improvements made.

- Sizing guide has been updated for [1.1. Istio.io perf](#) section has been updated on istio.io.
- Policy, telemetry, ingress were hovering around 600 Mi CPU per 1,000 requests.
- RBAC adds nominal overhead - “no discernable change”, Mandar confirms.
- Environment details are available in istio/tools/perf...
- 1.1 perf testing dashboard performed on GKE -
<https://snapshot.raintank.io/dashboard/snapshot/5npmHvqEp8THnGzzJ3zVoUHv4RGS54di?orgId=2>
- Namespace isolation & Sidecar resource introduced, which has helped performance in large-scale clusters of a 1,000 services or more.
 - *MJog's favorite* - Namespace isolation (scopes the management of sidecars to each namespace) also drove down memory consumption on proxies, which when taken in total stands to have a significant impact.
- [Meshery](#) - a tool to assist in answering the performance concerns; highlighting performance overhead of Istio and other service meshes. (demo requested)
- Ask to the community - of what performance concerns they have, if any.
 - Andrew Jenkins interested in “cluster scale” improvements - lots of services, lots of config changes, etc.
 - Total throughput for cluster? Mitch has seen 100-120k.
 - Sean Suchter confirms 100,000 RPS tests having been run. (Relayed from Mandar Jog)
- Mandar highlighted [perf](#) tools repo and solicited PRs from the community.
 - Andrew considering comparing scenarios
- 1.1 Release
 - Istio policy checks are now disabled by default and will be disabled on upgrade from 1.0.6 to 1.1, so be sure to re-enable if needed.
 - Sean confirmed that policy checks added significant per hop latency, so most were incurring this overhead by default even if policy checks weren't used.
 - Christian raised a good question regarding enablement of policy checks on a per proxy basis.
 - Mitch confirmed that per proxy isn't possible today; just globally.
 - Kiali included in 1.1 (and possibly earlier 1.0.x releases).
 - Christian highlighted 1.1 capability regarding [issuing identity with SDS](#) (thanks Rigs).

Rigs (rcaballeomx): Thank you all for helping update the docs for 1.1! Whoo-hoo!

Community Updates:

- Christian Posta has an early access Manning book *Istio In Action* is available. ← check it out!
- Lee Calcote is co-authoring [Istio: Up and Running](#) to be published this Summer.
- Ram highlighted the IBM [Istio 101 workshop](#) in GitHub that has been updated to 1.1 for public consumption. Ram has a lightning talk at Service Mesh Day next week.

Events

- Zach Jory highlighted that the Istio calendar is available for capturing Istio events (meetups, conf).
- Archy noted an Istio track in an upcoming [Cloud Native Canada](#). Christian noted the Envoy-centric meetup in Boston, speakers welcome.

2019-03-07

- CNI sidecar injection demo - Marko Luksa (mluksa@redhat.com)

2019-02-07 [[recording](#)]

- We have a new blog policy.
 - <https://preliminary.istio.io/blog/2019/sail-the-blog/>
 - Notably, detailed samples shouldn't go into the blog because blog posts shouldn't be taken as reference material
- Idea from Jaice Dumars - regular updates to the community. Perhaps quarterly? Dan Ciruli and the Steering Committee will take it up with them
 - This has been in the working group charter from the start - says they will update in community meeting every 6 weeks. (AN)
<https://github.com/istio/community/blob/master/WORKING-GROUP-PROCESSES.md>
- Old meetings are always on our [YouTube channel](#)
- Istio Multicluster deployment model status update (IBM: linsun@us.ibm.com, Etai and Ram)
 - Question about Istio's zonal aware load balancing - Yossi *thinks* that the zonal-aware load balancing may be able to take into account the multiple clusters. Good question: need to understand how you can set policy for distance. We need to validate this.
- Need a presentation on Mixer v2 from the policy and telemetry group!

2019-01-24

- New review process for large documentation contributions:
<https://preliminary.istio.io/about/contribute/github/> Reach out to me with any questions and suggestions: Rigs (grca@google.com) GitHub: rcaballeromx
- Working groups page:
<https://github.com/istio/community/blob/master/WORKING-GROUPS.md>

2018-11-29

- KubeCon EU CFP is open -
<https://events.linuxfoundation.org/events/kubecon-cloudnativecon-europe-2019/>
- Discussion around releases
 -
- Discussion around AWS mesh

2018-11-15

- Raw TCP Traffic Shifting with Istio 1.1.0 (~15 minute demo) - Venil Noronha (veniln@vmware.com)
 - <https://venilnoronha.io/raw-tcp-traffic-shaping-with-istio-1.1.0>
 - <https://preliminary.istio.io/docs/tasks/traffic-management/tcp-traffic-shifting/>
- KubeCon Seattle is SOLD OUT
- If you would like anything added to community calendar, please drop me an email at zach@aspenmesh.io
- AI for april - get comms out re: upcoming releases
- Istio Roles for Slack access -
<https://github.com/istio/community/blob/master/ROLES.md>
- [Istio Token Service Interface proposal](#)

2018-11-01

- Thanks to Lin Sun from IBM for hosting today!
- Help Wanted! Looking for someone to own and maintain the Istio Community Calendar. Duties include adding Istio meetups, talks, conferences, events as they are discovered. Pretty easy. :) If you're interested, ping April - anassi@google.com
- Mandar discussed 1.0.3:
 - Performance and scalability. Pilot performance scalability EDS is optimized large chunk. Push updates to 500 sidecars within 1 sec. Also cut down required CPU by pilot.
 - Trace sampling rate is now configurable via helm template/install.
 - Critical issues
 - Refer more details: <https://istio.io/about/notes/1.0.3/>
- 1.1 plan
- Split Horizon Design (check env group meeting mins notes)
- A few meetups happened and being planned
 - <https://codefresh.io/fixvember>
 - <https://www.meetup.com/Istio-Envoy-Service-Mesh-Users-Group/events/255334846/>

- Istio resiliency tool (Michael Kipper)
- Istio config scope for service entry, gateway, VS and DR. This is an issue with multiple teams how to ensure it is scoped and not create conflicts with each other.
- Can I run prometheus inside of the mesh?
 - Enable scaping when mTLS is enabled, that is already supported in 1.0.3.
 - Holland web shop company want to move everything inside mesh.

2018-10-18

- April is sick! Anyone volunteering to speak today? :D
- Istio Day videos from OSCON - if you spoke please reach out with recording
- Upcoming: CodeFresh meetup, AllThingsOpen, DevOps Phx
- New Book sample: <https://www.manning.com/books/istio-in-action>
-

2018-10-04

- Codefresh running Fixvember + Hacktober
- KubeCon - <https://events.linuxfoundation.org/events/kubecon-cloudnativecon-north-america-2018/schedule/>
 - Informal meetups
 - Sharing stickers etc with team
 - There will be a “street team” doing promotion on the floor
 - Can we get pins for Istio team?
- Feel free to review, proofread, and suggest/comment on the new Kiali Task doc: <https://github.com/istio/istio.io/pull/2715> → <https://deploy-preview-2715--preliminary-istio.netlify.com/docs/tasks/telemetry/kiali/>

2018-09-20 - [recording](#)

- Roles update/membership process (Lin Sun) - <https://github.com/istio/community/blob/master/ROLES.md>
- Mixer Deep Dive (Mandar Jog) - *slide deck will be posted later*
 - Stateless gRPC adapters are supported currently
 - Session based gRPC adapters will have a well defined lifecycle which will enable the splitting of configuration time API calls from metric level calls

2018-09-06 -

- Questions
 - Julien S.: Do you plan or do you have a target date in order to integrate bpf with envoy?
 - Consul with Istio?
 - Istio 1.1 release?
 - Docker Swarm? - <https://github.com/istio/istio/issues/7777> - please comment if you are interested in using Swarm & Istio
 - Rigs will update the What is Istio page and will create a Wikipedia entry with the new content.
 - Cmluciano: I have an almost complete Wikipedia page. Will be submitting for review to ToC soon for review
 - Documentation contribution guide: <https://istio.io/about/contribute/>
 -

2018-08-23 - [recording](#) & [chat transcript](#)

- **EnvoyCon CFP closes Aug 24 -**
<https://events.linuxfoundation.org/events/envoycon/>
- Check out this awesome What is Istio sketch from Denise Yu at Pivotal!
<https://twitter.com/deniseyu21/status/1032258052114841600>
- Questions:
 - (Julian Griggs: jgriggs@lightstep.com) What does your development flow look like?
 - Discussion started [here](#)
 - OSX issues
 - Opportunity for docs update?
 - (Venil Noronha: veniln@vmware.com) What sort of improvements are being planned in the mixer adapter space?
 - Venil is writing an adaptor and would like some advice on best practices for writing an out-of-process, out-of-tree adaptor for VMware Wavefront. Will join the Policy & Telemetry working group
 - My issue was resolved here regarding using Istio with gRPC as a gateway:
 - <https://github.com/istio/istio/issues/7843>
 - Seems that there are some other open issues which could be consolidated
 - <https://github.com/istio/istio/issues/7909>
 - In this one the nodeport is also set
 - <https://github.com/istio/istio/issues/7980>

- Adding value here and updating via helm or kubectl apply was resolution:
 - <https://github.com/istio/istio/blob/master/install/kubernetes/helm/istio/values.yaml#L228>
- Osman Ali (osman@lxygh.com)
- Are there any guidelines available for running the control plane components in HA?

2018-08-09 - [recording](#)

- **Attention! KubeCon/CloudNativeCon CFP closes this Sunday the 12th. Be sure to submit your talks!**
<https://events.linuxfoundation.org/events/kubecon-cloudnativecon-north-america-2018/program/call-for-proposals-cfp/>
- **EnvoyCon CFP closes Aug 24 -**
https://docs.google.com/forms/d/1aXLVAm1YS66srkoYCMgiu0_LrxK0lCtkqEpaacsqrWQ/viewform?edit_requested=true
- **Proposed demo:** seldon with istio (seldon-core : machine learning deployment on k8s), Clive Cox, cc@seldon.io (Approx 10 mins)
 - <https://github.com/SeldonIO/seldon-core/blob/master/docs/istio.md>
- Twitch stream - Spencer (<https://istio.io/blog/2018/istio-twitch-stream/>)
- Questions
 - Osman Ali (osman@lxygh.com)
 - <https://github.com/istio/istio/issues/5829>
 - Experiencing the same using istio 1.0. Any suggestions regarding resolution?
 - Have tried setting host to "*" for http block as well as using domain
 - Here are the examples:
 - <https://gist.github.com/namsoila/b42aa35c9bc296e9dc819e45be36ff3b>
 - I am running on GKE 1.10.5-gke.3
 - Also not able to upload domain to <https://hstspreload.org>
 - Error: No HSTS header
 - Lack of HSTS header would be due to no envoy setting for header value
 - Error: No redirect from HTTP
 - I resolved this as follows:
 - <https://github.com/istio/istio/issues/5829#issuecomment-413790128>
 -
 -
 - Venil Noronha (veniln@vmware.com | github.com/venilnoronha) - What's a good way to find starter issues on Istio to work on?

- <https://github.com/istio/istio/issues?q=is%3Aissue+is%3Aopen+label%3A%22community%2Fhelp+wanted%22>

2018-07-26 ([Recording](#))

- OSCON Recap
- Osman Ali (osman@xygh.com)
 - RESOLVED:
 - I was missing the named ports requirement found here
 - <https://istio.io/docs/setup/kubernetes/spec-requirements/>
 - Checked with upgrade to Istio 1.0.0-snapshot.2 - 1.0.0 Preview
 - Will check with the 1.0.0 release as well
 - I have a crash loop back off that occurs when running istio on GKE master version 1.10.5-gke.0
 - I installed istio 0.8.0 using the kubectl apply -f install/kubernetes/istio-demo-auth.yaml
 - All the istio pods are shown to be running via kubectl get pods -n istio-system
 - I am then running an envoy deployment which includes a service and a deployment running an envoy edge proxy
 - The service and deployment both run with the istio sidecar being created
 - I then have the two running containers:
 - kubectl logs example-edge-proxy-794b47c89d-gqwbk -c example-edge-proxy
 - kubectl logs example-edge-proxy-794b47c89d-gqwbk -c istio-proxy
 - What occurs now is that there is a crash loop back off on the istio-proxy that switches between the three running pods so that usually at most one is running
 - Here are the errors from the logs
 - <https://gist.github.com/namsola/3e853fbeb00fec4dd91c104fc273526a>
 - This is referenced in some other issues:
 - https://github.com/istio/old_pilot_repo/issues/809
 - <https://github.com/istio/istio/issues/1005>
 - Someone suggests:
 - For anyone who finds this message searching for "panic: cannot open shared memory region /envoy_shared_memory_0 check user permissions:" When you start envoy as root, /dev/shm/envoy_shared_memory_0 is owned by root. When you try and start it again as a regular user, it won't be able to open that file and then it dies. Delete the file and you can restart.
 -
- Twitch Stream (Spencer Krum - skrum@us.ibm.com)
- Brian Harrington (bharrington@redhat.com)

- QQ: Is there the beginnings of a draft changelog available (Asked because i noticed it was still not staged to.... NM, it was published between yesterday and today - <https://preliminary.istio.io/about/notes/1.0/>) ?

2018-07-12

- Project update - Dan Berg/Sven Mawson
- [1.0 Live Community testing will happen on 7/16.](#)
- Istio Monitoring - Fred Moyer
- Docs Fixit underway - Rigs Caballero
- Roll Call! Who's coming to [OSCON Istio Day](#)?
 - Aspen Mesh (Zach Jory & Neeraj Poddar)
 - Red Hat (Kevin, Dmitri, Brian, Bill, Christian)
 - Pivotal (Shubha Anjur Tupil, Aaron Hurley)
- GitHub is hiring istio/kube folks!
 - <https://boards.greenhouse.io/github/jobs/1226935>
- Red Hat also hiring to work with Istio/OpenShift (Quality Engineer):
 - <https://social.icims.com/viewjob/po153142019502279e2a>

2018-06-28

Cancelled.

2018-06-14 ([recording](#))

- [Ballerina](#) demo & Istio integration - Dmitry Sotnikov and Kasun Indrasiri
 - BallerinaCon is in San Francisco, July 18: <https://con.ballerina.io/>
 - To register for free, you can use the coupon code: **BalCon-Istio**
- Demo: [Vistio—Visualize your Istio Mesh Using Netflix's Vizceral](#) - Nick Nellis

Recording: <https://www.youtube.com/watch?v=TBZKIPk42IA>

2018-[05-31](#)

- Fred Moyer can share draft slides (partial) of his Istio related SREcon Singapore presentation
- End-user auth topic request

2018-05-17

- Join us at OSCON! [CFP for Istio Day](#) closing on 5/23
- Kiali Demo - for background: <https://kiali.github.io> (John Mazzitelli, mazz@redhat.com)
- Community Testing Needed for 0.8!
<https://groups.google.com/forum/#!topic/istio-dev/9VRGr83rS3M>

2018-04-19

- Join us on Rocket.Chat! <https://istio.rocket.chat/home>
- Demo [Tufin Orca](#), a security solution based on Istio - by Reuven Harrison (rh@tufin.com)
- Any 0.8 updates
 - RC has been cut, it's being tested internally
 - More cherry picking to be done
 - Is an LTS release (Long-Term Support)
 - Two weeks(ish)?
 - Possibly opening access to testers soon, sign up in Google group
- New O'Reilly Report on Istio:
<https://developers.redhat.com/books/introducing-istio-service-mesh-microservices/>

2018-03-22

RECORDING: https://youtu.be/IOxnVNvvgg_g

CHAT LOG:

11:01:30 From Google : Working doc for the meeting - <http://bit.ly/istiocommunitymeet>
11:01:36 From Google : Any volunteers to take notes?
11:11:00 From Christopher M Luciano : gratz!
11:11:18 From Istio Security Working Group : +1
11:13:43 From Christopher M Luciano : gratz ++
11:32:02 From Salman Muhammad Shaikh : Is this meeting recorded?
11:32:16 From Kk Sriramadhesikan : Yes.
11:32:28 From Google : It will be on our YouTube channel later today
11:42:26 From pcm :
<http://blog.michali.net/2018/02/19/lazyjack-provisioning-bare-metal-for-ipv6-kubernetes/>
<http://blog.michali.net/2018/03/06/istio-on-ipv6-kubernetes-undiscovered-country/>
11:42:41 From pcm : <https://github.com/pmichali/istio/tree/ipv6>
<https://github.com/pmichali/istio/commits/ipv6>
11:42:49 From Julien Senon : no mic sry

11:43:45 From Google : No worries - let us know if you have more questions

11:45:13 From Salman Muhammad Shaikh : Are there debug options available for istio and envoy?

11:45:46 From Cesar Filho : The material from Zach from yesterday meet up covers the changes to be expected(related to egress).
<https://www.meetup.com/Cloud-Native-Online-Meetup/events/248450123/>

11:46:02 From joe williams (github) : anyone have a link to info regarding the egress config changes in 0.8?

11:46:21 From Laurent :
<https://github.com/istio/istio/issues?q=is%3Aopen+is%3Aissue+label%3A%22community%2Fhelp+wanted%22>

11:46:40 From Laurent : ^ the 37 open “help wanted” issues

11:46:52 From Julien Senon : regarding issue with egress yes I ve some issue but I can see it with network group

11:47:11 From Laurent : 7 “good first issue”
<https://github.com/istio/istio/issues?q=is%3Aopen+is%3Aissue+label%3A%22community%2Fgood+first+issue%22>

11:47:19 From Julien Senon : issue to access external services on aws like gateway api dynamodb

11:48:24 From Iryan : for egress look at

11:48:26 From Iryan :
https://github.com/istio/api/blob/master/networking/v1alpha3/external_service.proto

11:48:34 From Iryan : and PR history on that

11:48:51 From Andrew Jenkins : Julien - my team does have pods connected to DynamoDB using Istio and the current Egress rules. Ping me andrew@aspenmesh.io if I can share any pointers.

11:49:11 From Julien Senon : thx I will do

11:50:59 From Julien Senon : thx bye

11:51:00 From pcm : Some of the IPv6 changes needed are good for new contributors (like me)...
wink wink

- 20 mins - Istio Test Fixit Awards [Sakshi/Sven/Louis]
- IPv6 and Istio - Can show a quick overview of the proof of concept work that was done.
15-20 mins. Paul Michali <pcm@cisco.com>. Info...
 - Tool to provision:
<http://blog.michali.net/2018/02/19/lazyjack-provisioning-bare-metal-for-ipv6-kubernetes/>
 - Istio and IPv6:
<http://blog.michali.net/2018/03/06/istio-on-ipv6-kubernetes-undiscovered-country/>
 - Fork of quick changes: <https://github.com/pmichali/istio/tree/ipv6>
 - Temp commits for Ipv6: <https://github.com/pmichali/istio/commits/ipv6>
- Could someone briefly compare development experience between minikube and GKE?

- Could we have a brief status about egress with istio. Seems that this feature will be deprecated in v0.8? (julien.senon@gmail.com)
- I've quickly try to deploy Istio on AWS EKS preview without success, how can we discuss or offer help to aws? (julien.senon@gmail.com)
- Like k8s sig Aws, is it possible to have issue with label "good-first-issue"? In order to start developing for beginner? (julien.senon@gmail.com)

2018-03-08

- Debugging Istio - After spending 3 months with an entirely new infrastructure setup at Namely we learned a lot about debugging istio. We'll do a quick demo of where we look at things when something goes wrong. Robert Ross <robert.ross@namely.com>

2018-02-22

Perf & Scalability [WG](#) : one of the tools and setup we use:

<https://github.com/istio/istio/tree/master/tools#istio-load-testing-user-guide> see WG link for other aspects, meeting notes, etc...

2018-02-08

1. Announcements
 - Bay Area - Istio Community Day at IBM Index - <https://www.meetup.com/SF-Bay-Area-Istio-Meetup/events/247517164/>
2. Slack. Sorry to come back again, but could we create rooms to exchange regarding istio subject? I really think that it's better place, than a mailing list, to federate community and exchange more fastly, easily, and promote istio. (I think that is not needed to have people/dev/core team member constantly on slack channel). Can you start with free account?
3. We posted a couple of new blogs on how we use build Istio at Aspen Mesh, and how we didn't break our AWS DynamoDB calls when enabling tracing with Istio.
 - [Building Istio with Minikube-in-a-Container and Jenkins](#)
 - [Distributed Tracing with Istio in AWS](#)

2018-01-25

1. Announcements:
 - New? Introduce yourself!
 - OsCon 2018 CFP closes Jan 30 - <https://conferences.oreilly.com/oscon/oscon-or/public/cfp/615>
 - Project governance update
2. Demo <https://github.com/nginxmesh/nginxmesh>, Sehyo Chang, 10 minutes
3. Liveness and readiness probe with mTLS enabled
<https://github.com/istio/istio/issues/2628>. Do we have defined scenario?
 - @zackbutcher has been able to reproduce this issue and is working on it.
4. Foreign services - roadmap/documentation?
<https://github.com/coredns/deployment/blob/master/kubernetes/coredns.yaml.sed#L91-L101> ice availability. Do we have a roadmap?
5. Red Hat has submitted a PR for an Ansible installer for istio -
<https://github.com/istio/istio/tree/master/install/ansible> yeay :-)
6. Question: iptables requirements

2018-01-11

1. Viewed in Istio forum, from Christophe Tafani-Dereeper, Does istio has any plans to join the [CNCF](#) in the future?
 - [Answered 12/28/17](#)
2. Have you any plan to support service port name different from http, https, grpc ...?
3. Istio config WG announcement: 1/19 10-5 Istio config intensive design summit at Google Kirkland office. Open to public. Welcome to attend in person. Contact: xiaolan@google.com
4. gRPC ingress has been a real problem for multiple people and seems to change to fix bugs etc. Without a reference example that can be expected to work its not possible to filter out how it should be done from threads on the discussion groups etc.
5. Multi cluster status?
 - PRs are in progress and first round of reviews done. ETA on multi-cluster is now v0.6
 - See Environment Group meeting notes for [details](#)
6. Support for http kubernetes health checks in istio-auth (mTLS deployment) mode?
Where is this being tracked?
7. Upcoming CFP deadlines -
 - KubeCon EU - Jan 12. [View/Add Istio-related CFPs here](#).
 - DockerCon - Jan 18. <https://2018.dockercon.com/call-for-papers/>
8. Demo: Istio Authorization with Calico Policy, Spike Curtis, 10 min
9. Question regarding authenticated ingress between API gateways and Istio. Currently there seems to be no method to establish north-south trust/authentication relationships between istio which secures traffic internal to the cluster and an API gateway which

authenticates end user traffic. Pointers to POCs, docs or issues tracking this issue would be helpful.

10. Just wondering if there are any thoughts/long-term plans to run Kubernetes components on Istio, unify Istio policy with Kubernetes RBAC, etc...?

2017-12-14

1. General Announcements
2. KubeCon highlights
 - a. What was your favorite session?
 - b. Biggest takeaway?
3. Demo - [Fred Moyer](#), Circonus
 - a. <https://gist.github.com/redhotpenguin/807d33cc5b84c13cadad6ab456de913e>
4. [Build System Improvement Plan](#)

2017-11-30

1. [Istio Day Happy Hour](#) - hosted by Tigera, Google, & IBM
2. 0.3 built and released
 - o Focus is on stability and production readiness and new monthly cadence.
 - o <https://github.com/istio/istio/wiki/v0.3.0>
3. Performance working group
 - o <https://github.com/istio/community/blob/master/WORKING-GROUPS.md#performance-and-scalability>
4. Does istio has been involved with new AWS Elastic Container Service (EKS) and Fargate project?
 - o No, welcome to try and provide feedback
5. Multi zone hybrid mesh doc
 - o <https://docs.google.com/document/d/1cOxPnTpnVWKR0m7a6PYJ-0NSTZ-e2JlIULnfojz7OZ4/edit?disco=AAAABhVEX4s&ts=5a1ef157>
 - o Add feedback if you have not read/provided
6. Any big pain points/feature requests
 - o JWT auth - already in progress?

- i. I made a small screencast showing the envoy jwt-auth filter working with an idp (keycloak) (running outside Istio for now)

<https://www.youtube.com/watch?v=wscX7IMfuBI>
- Ingress concept not covered in the docs
- Can't wait for new Gateway concept
 - i. FYI

https://groups.google.com/forum/m/#!msg/istio-dev/mPaj0d7lev_g/R0EzM8iiCQAJ
- There isn't a single mention of Kube Federation in the Istio Multi-Zone Proposal. What's the reason for that?
- Istio and Spire, friend or foe?

2017-11-16

1. KubeCon Istio Day Workshop - [Using Istio to Build a Cloud Native Service Mesh](#)
2. [KubeCon Istio Day Summit](#)
3. [Istio Day Happy Hour](#) - hosted by Tigera, Google, & IBM
4. New Drafts
 - a. [Authentication Policy Proposal](#) - Security SIG
5. Waiting List for CNCF workshops -

https://docs.google.com/forms/d/e/1FAIpQLSe9K4Q_kidpXRF018czmugjUePg3f8WQbj7s3-DOXPEbBIWXg/viewform
6. Cloud Native Online Meetup -

<https://www.meetup.com/Cloud-Native-Online-Meetup/events/245027581/>

2017-11-02

- Announcements
 - Subscribe on YouTube!

<https://www.youtube.com/channel/UC-zVlo1F3mUbExQ96fABWcQ>
- Working Group Updates
 - [Security SIG](#)
 - First [Security SIG Community Meeting](#) is Nov 8th
 - [Policy WG](#)
 - Design of note: [Per Service mTLS enablement](#)
 - Meetings: Every other Wed, 1-2pm Pacific
 - [Workload Identity WG](#)
 - Meetings: Every other Tue, 11am - 12pm Pacific
 - [End User Authentication WG](#)

- Meetings: Every other Mon, 1-2pm Pacific
 - Environments working group kicked off
- Github Repos reorganization
 - 4 golang repos (pilot, auth security, mixer, broker) now merged into [istio/istio](https://github.com/istio/istio) (finalizing tests work)
 - ETA: Friday, Nov. 3 for full usage

Questions?

- Blog post ideas:
 - https://docs.google.com/spreadsheets/d/1KwE7UHMxZ8ahNb-TWMI_PIfgRF_bGwpC_5_p7671L4k/edit#gid=0
- WG List: <https://github.com/istio/istio/blob/master/GROUPS.md#working-groups>
- Istio at CNCF TOC - <https://github.com/cncf/toc>
-

2017-10-19

- Announcements
 - Subscribe on YouTube!
 - <https://www.youtube.com/channel/UC-zVlo1F3mUbExQ96fABWcQ>
- Working Group Updates
- Demos
- Istio config group introduction and problem statement [link](#) (xiaolan@google.com, jguan@google.com)

Questions?

2017-10-10

- Announcements
 - 0.2 is out!!
 - Ready for adaptor authors
 - Blogging - (Nick Chase)
 - Interested in writing a blog? Check out the list at https://docs.google.com/document/d/1u548lRvhUmdCRibM4ZxYtp_Gk7qvfcxIA8AD8zjRHc/edit#
 -
- Project Status Updates
 - Environments (Laurent Demailly)

- Mac local development survey / how important is it to you?
 - If you're in London mark your calendar for Thu Oct 19th 7pm
- Technical Deep Dives
 - [Istio "Native" RBAC](#) (Limin Wang & Spike Curtis)
- Demos
 - Eureka in Docker (Isaiah Snell-Feikema)

2017-09-21

[Meeting Chat Transcript](#)

- Announcements
 - Tigera (Mike Stowe, mike@tigera.io)
 - Tigera is doing Istio training; <https://tigera.io/training/>
 - Release community testing on Monday.
https://groups.google.com/forum/#!msg/istio-users/aEgUWT0pCGQ/z5BT7_76DgAJ
 - Mixer googlers are gathering in Seattle (Sept 28-29). Planning to do community meeting in Seattle. Will send the details in istio-integration, istio-dev mailing list when the details are finalized.
- Project/Release Status
 - New release cut today. But there is multiple cuts before 0.2 release.
 - Pilot (Kuat)
 - Use CRDs for all configuration (aligning with Istio in general in the schema as well)
 - Use all xDS APIs for configuring Envoy (no more restarts except for cert changes)
 - Support for non-k8s registries (Eureka, Consul)
 - Bug fixes for reported issues
 - Support for TCP headless services
 - Mixer (Douglas Reid, doug Reid@google.com)
 - Implementation of the Adapter 0.2 design almost complete. Support for preprocess (attribute generation) adapters is not yet started and likely won't land in pending 0.2 release.
 - Switch to new CRD-based configuration has been completed. We are updating all of our documentation to reflect the new configuration now.
 - Working on updates to default configuration deployments, documentation, and release prep now
 - KDS will be on 0.3 so no pilot agent will be needed.
 - Auth (Tao Li, lita@google.com)
 - Support for raw-VM: Using node-agent (spiffe). CSR from node-agent to CA.

- Periodically node agent CSR for rotation.
 - mTLS support for TCP traffic.
 - Introduce a key/cert storage mechanism for self-signed CA for persistency.
- Proxy (Shriram Rajagopalan)
 - Support for Websockets
 - Support for disabling mixer policy check while retaining telemetry reporting (useful in some scenarios)
 - JWT Auth token validation support - in progress
 - Stability improvements
 - Support for enforcing policies on pure TCP connections
- Technical Deep-Dive/Demos
 - Raw VMs demo (Costin Manolache): Will be rescheduled.
 - Istio on Docker with Consul (Greg Hanson)
 - Link to consul tutorial (Doc under construction):
<https://istio.io/docs/samples/consul-integration.html>
- Cloud Foundry efforts toward adoption (Shannon Coen)
 - Cloud Foundry is a large multi-tenant application platform
 - We anticipate supporting a single shared, multi-tenant Istio control plane, where mutually untrusting applications, each with their own sidecar Envoy, would be driven by the same control plane.
- General Discussion/Questions

Q: Work with Bazel, Golang best practises: Would like a process specified. Mixer uses gogland. Add to the contributor doc in github. One ref:

<https://github.com/istio/istio/blob/master/devel/README.md#setup-bazel-and-go-links>

<https://github.com/y0ssar1an/q>

Filed: <https://github.com/istio/mixer/issues/1337> to track Mixer documentation.

Q: Shannon to Shriram: Infra already in place for certs per containers. How to hot-rotate certs in Envoy. Right now it's Pilot agent. KDS for cert is todo for Envoy. KDS can be the node-agent (spiffe). Or Envoy watches the local file system for change.

Ref: <https://github.com/envoyproxy/envoy/issues/1194#issuecomment-320758135>

Q: Envoy contribution process: Submit issue/pr and Matt et all give feedback.

CF will automatically self-inject the Envoy sidecar inside the container. Still working on transparent or explicit redirect TBD/or use dns redirect. CF targeting non-http traffic.

Istio has plans for non-transparent support in it's roadmap. Ref:

<https://github.com/envoyproxy/envoy/issues/1194#issuecomment-320758135>

- Development environment survey: macos ? windows?

We can send a survey to the community in the dev mailing list.

2017-08-24

- Project Status
 - SIG Interest
 - Security SIG group - <https://groups.google.com/forum/#!forum/istio-security>
 - SIG Interest form - <https://goo.gl/forms/0TdO4ugk7fldrfj53>
 - Istio Security WG highlights/report from our meeting (Spike Curtis)
 - Other potentials: Integrations, Telemetry,...
- Istio Release Automation and Oncall
 - https://docs.google.com/presentation/d/1SQLx0oJF26uNzlgwrHO1oTnUDb_i9aN9RSL3a-UR8Dg/edit#slide=id.g246b7cfecb_0_5
 -
- Release Updates
- General Discussion/Questions

2017-08-10

[Sign up for a demo or topic!](#)

- **Project Status**
 - Varun states that the next release is planned for mid September (0.2) features include:
 - cluster-wide Istio
 - TCP support
 - Have services running in VM join the istio mesh in k8s
 - Standardized mixer plugins
 - Automatic sidecar installation in K8s 1.7+ via admission controller
 - Performance improvement
 - APIs
 - Support for Consul & Eureka

- Improvements to Envoy - websocket support
 - Can plug traces into your tracing BE
 - Working on adding health-checks (liveliness and readiness probes) for the Envoy configuration
 - Zero reloads of the sidecar now in Envoy for dynamic loading of listeners.
 - Security:
 - Certificate distribution to VMs via CSR
 - K8s pod certificate distribution is the same as Istio Alpha (i.e., via secret/volume mount)
- Test Infra
 - Moving away from Jenkins, moving to Prow
 -
- **Roadmap**
 - <https://istio.io/docs/reference/release-roadmap.html>
- **Release Updates**
 - Want to improve the release cadence
 - 0.2.0 was a test build to test out the new release process
 - Aiming for a weekly or bi-weekly "test" releases
 - Won't be fully tested or documented
 - Aiming for a three month "stable" release cadence.
 - Our evolving release processes (builds vs releases and the confusion around the 0.2.0 test build)
- **General Discussion / Questions**
 - Steve Wade, Principal Kubernetes Consultant @ Apprenda.
 - Question
 - What is our stance on when Istio will be Production ready?
 - Answer
 - Require more people kicking the tires on this
 - Steve's view: Large scale, multi-tenancy, multi-cloud, cross-region
 - Akshay, Engineer at VMware.
 - Question
 - When will istio-0.2 docs be available to explore the new features?
 - Answer
 - Release notes in every PR going forward

- Greg, Engineer at IBM
 - Question
 - Where is the best place to track work on istio's config server?
 - Answer
 - Galley no longer exists, now using the k8s API server as the integration server.
 - Lin, Engineer at IBM
 - Question:
 - What is the upgrade path from 0.1 to 0.2? Does user need to redeploy their app and reinstall everything?
 - Answer:
 - 0.1 to 0.2 lots of breaking changes so would need to redeploy.
 - Upgrade from 0.2 onwards needs to be discussed.
 - April, Google
 - Question:
 - If i want to get involved what can i do to help?
 - Answer:
 - Opening up focused conversations to the community shortly.
 - Look at the priority labels on the GitHub issues
 - Start using the "help-wanted" tag
 - Ask the question via an issue in the istio-issues or the component specific issues tab.
-

2017-07-13

We're kicking off regular community meetings with our first session on July 13th at 11:00am PDT¹. We'd love to have you take part! [Add the invite to your calendar now.](#)

Sign up for a meeting topic or demo below:

¹ [When's that in your local time?](#)

- **Demo** -- Demo Title [First Last, name@email.com]
 - Link to slides
 - Link to repositories
- **Project Status**
- **Roadmap**
 - <https://istio.io/docs/reference/release-roadmap.html>
- **Release Updates**
- **General Discussion / Questions**
 - Continuous Deployment: I'm (@sublimino) hacking some stuff together around this (not enough for a demo yet!) and would love to know anything related on the roadmap, discuss workflows etc
 - *Call is being recorded*
 - *We can accommodate up to 50 people with the new Hangouts Meet or Kubernetes uses Zoom.*
 - *It is suggested that we use Zoom going forward given attendance will likely often exceed 50 people.*
 - Galley <https://github.com/istio/galley> - [Galley 2 Design Doc](#)
 - Boston-area Istio Community Day (Richard Li -- if interested email richard@datawire.io).
 - Coordinating with Red Hat, Google, IBM for 8/3 as target date.)
 - Will there be official swappable support for multiple proxies (Linkerd *and* Envoy and maybe others) or is it expected that Envoy will always be the default?
 - <https://linkerd.io/getting-started/istio/>
 - Answer: Envoy will likely be the default supported proxy going forward, but it is expected that users will want to use their own proxies or introduce others (Linkerd works today). Also, there are use cases where Istio can be useful in proxy-less configurations.
 - Are there any more docs /status on usage of Redis with Istio?
 - Please file an issue for use in dataplane to surface this
 - Any words on supporting mutual TLS on the ingress side (to authenticate calls to the service mesh) Use case: Google Cloud Dataflow to service mesh. We can't put a proxy/sidecar there.
 - Envoy in Ingress controller, possible additional option to configure
 - Datawire is working on Ambassador as an Istio ingress controller: more info at <https://docs.google.com/document/d/1wtwQKYyZ4xZSzedD-2RstqMWOXwZvrGbBi60dIBQEDs/edit?usp=sharing>

- In progress design on [Istio broker](#) which will bring “binding credential” to external traffic and config ingress to authenticate.
- Can we get some gRPC examples in the docs? All docs always handle HTTP microservices.
 - Need more docs, either open a github issue to request this or try and contribute!
 - Service-to-service
 - gRPC service invoked from outside had a bug - being fixed now.
- Is there a way to get something like nightly snapshots?
 - Intending weekly | every two weeks build; can checkout master branch of istio/istio .. The files there point to latest working snapshots of Pilot/Mixer/Auth/Envoy
- Is there a sense of known issues and conditions / things to consider while running in *production* readiness of istio? Can we get one if
 - Official answer: be careful and be flexible to incorporate changes/fixes as we roll them out.
 - Ref: <https://istio.io/troubleshooting/> also see [Istio Users Group](#) for experiences
 - Open for contribution
 - Components of Istio are, such as:
 - Envoy
 - Example: Cluster 240 , w/ 8 svc / node; grpc w/ client-side load-balancing; multiple k8s namespaces, per env
- Is a roadmap published anywhere? Are there plans to?
 - Yes: Istio.io > Docs > [Roadmap](#)
- Any info / status on having istio broken out into its own namespace?
 - Working on cluster-wide deployment model; scheduled for inclusion next release (2 weeks)
- What is galley?
 - Galley is the server responsible for distributing config to Istio components, similar to k8s api server
 - <https://github.com/istio/galley> - [Galley 2 Design Doc](#)
- Will Apigee be integrated in Istio (ie leverage their policies, metrics, etc)?
- Any words on Google Cloud Endpoints - lots of cross mentions?
- Question to the community [from Andrew of SPIFFE/Scytale]: Are folks looking to run Istio on/between non-k8s environments in the near future? If so, can you share anything about which environments you would like to see as istio-addressable?
- Slides and assets for presentations needed?

Roadmap

- <https://istio.io/docs/reference/release-roadmap.html>