Microservices, Kubernetes and Istio

Kubernetes and Istio are being adopted.

2022 Adoption Trends Solo.io has conducted a survey of technology leaders and practitioners to understand how microservices, Based on the research conducted,

we observe 6 top level trends:



1. There is an explosion of microservices

85% of companies say they are modernizing their apps to a microservices architecture, but many are struggling with how to effectively manage it all



2. Kuberentes has crossed the chasm

Nearly two-thirds of companies are using Kubernetes in production to some degree, and satisfaction with Kubernetes is nearly universal





3. API gateways are foundational for success The vast majority (93%) of companies are

utilizing API gateways- primarily to ensure service reliability



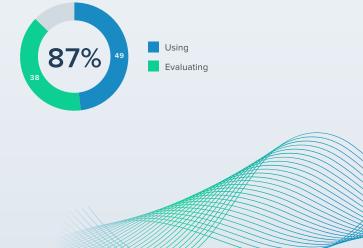


service mesh becomes an increasingly popular and important organizational tool.

4. Companies are turning to service mesh As microservices architectures are adopted,

87% of companies report using or evaluating

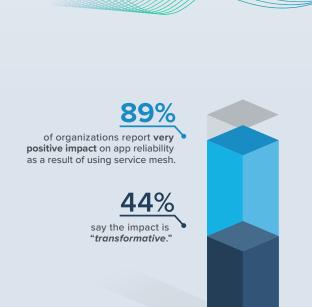
a service mesh 5. Best practices for service mesh





are not widely established As with any emerging market, the reasons

for service mesh adoption are varied with less broadly recognized trends



27



We observe a strong correlation between success with microservices and faster,

6. Leading organizations are finding success with service mesh deployments

more reliable application development. Organizations that couple their microservices strategy with a service mesh report a very positive impact on app reliability as a result



Technology leaders and practitioners agree-



deployments—Istio, Linkerd, and Kuma—vary significantly. Apart from the more-or-less-universal shortage of skills, the pain different users of different service meshes are solving for varies greatly.

Creates too much complexity

Managing multi-cluster and/or multi-environment deployments

Use cases among users of the most common service mesh

Q: What would you say are the THREE biggest challenges with using a service mesh

Difficult to secure 27

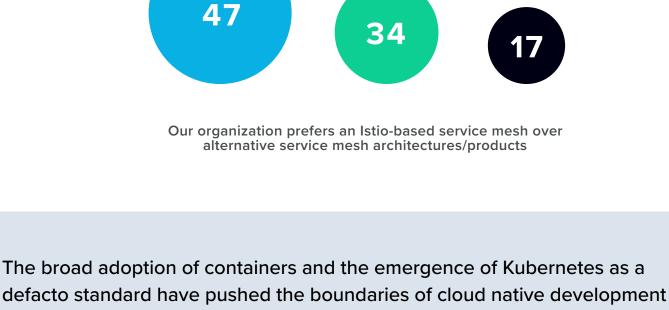


scale in which one means you do not agree at all, and five means you agree completely. Agree Completely

Q: please indicate your level of agreement with the following statement. Use a five point

organizations prefer Istio as their service mesh deployment:

Aspiring Leaders Laggards



However with all new tech, when one problem is solved, another emerges. Modern enterprises now struggle to deal with the negative externalities that result from the

microservice and API sprawl. To solve for this, leading enterprises are turning to service mesh to complement

service mesh and API gateways, other companies can reap the same benefits and maximize the positive impact to their dev teams and KPIs.

their API gateways. By looking at these leading companies and how they are using

common service mesh deployments download the full report. Ready to get started? Request a

To see all of the data points and trends captured in the survey, including top

challenges of service mesh deployments and a comparison of the three most

meeting with our service mesh and API gateway technical experts.





impact even further.