

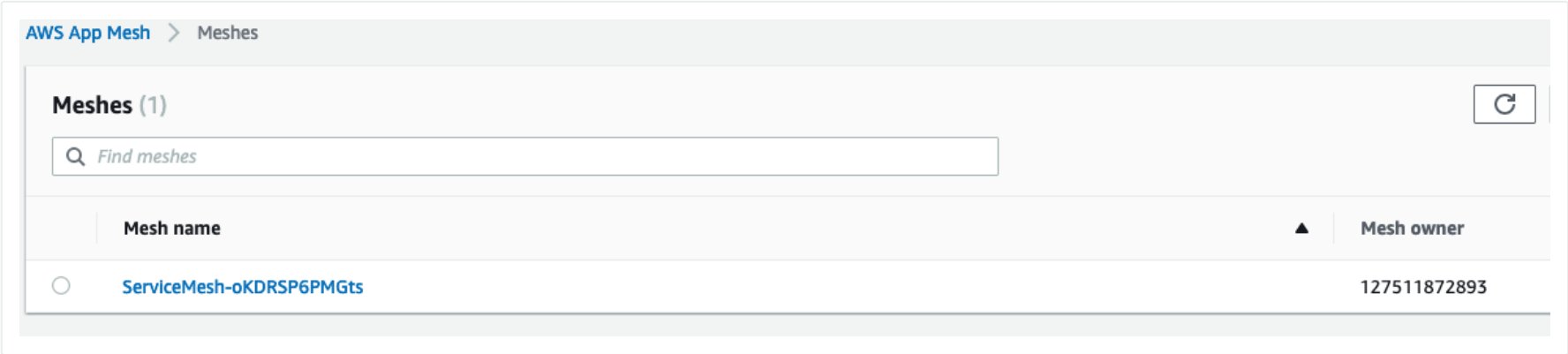


# AppMesh and X-Ray Console

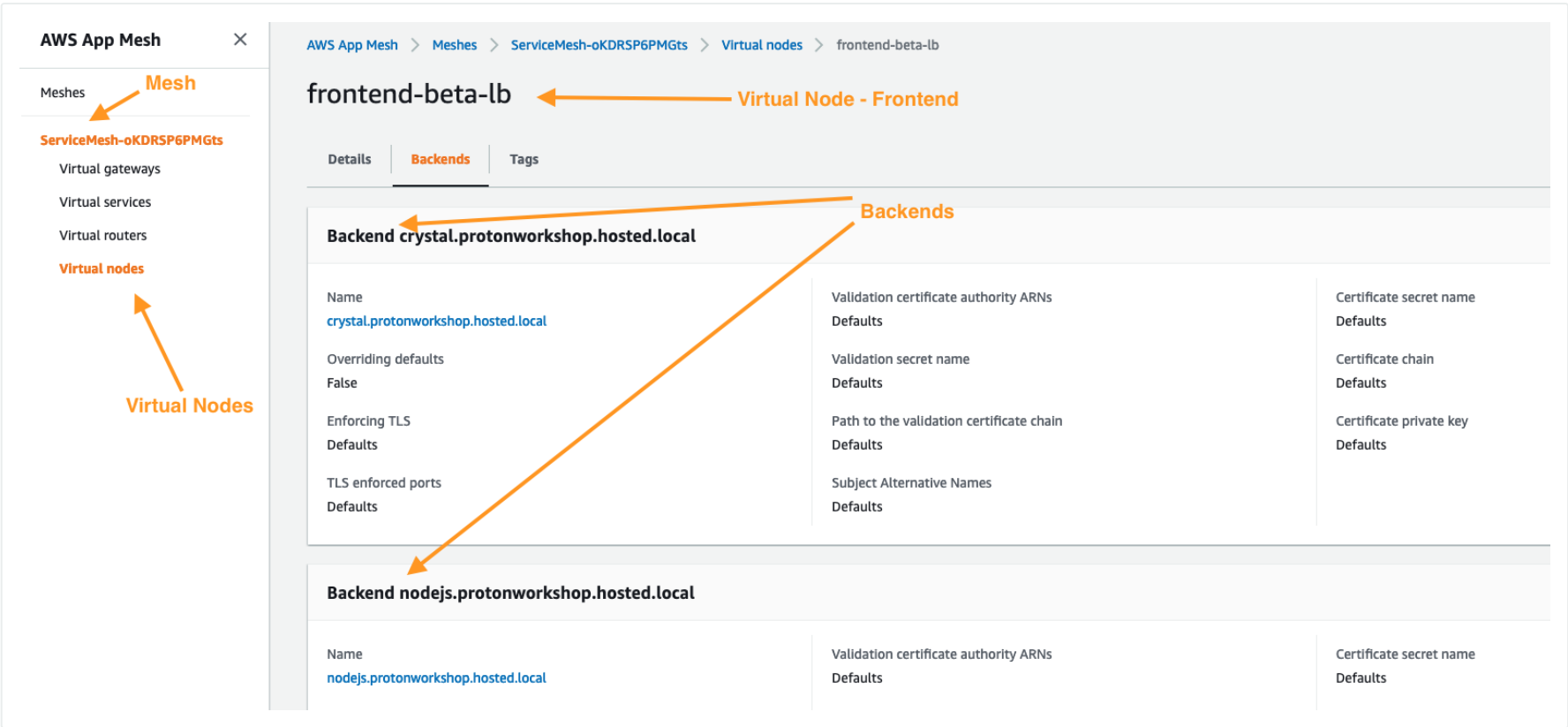
In this section, we can explore the AWS Appmesh and X-Ray UI to see the resources we have created.

## Explore Appmesh

You can now navigate to [App Mesh UI](#) and click on Mesh which starts with the name ServiceMesh-xxxx

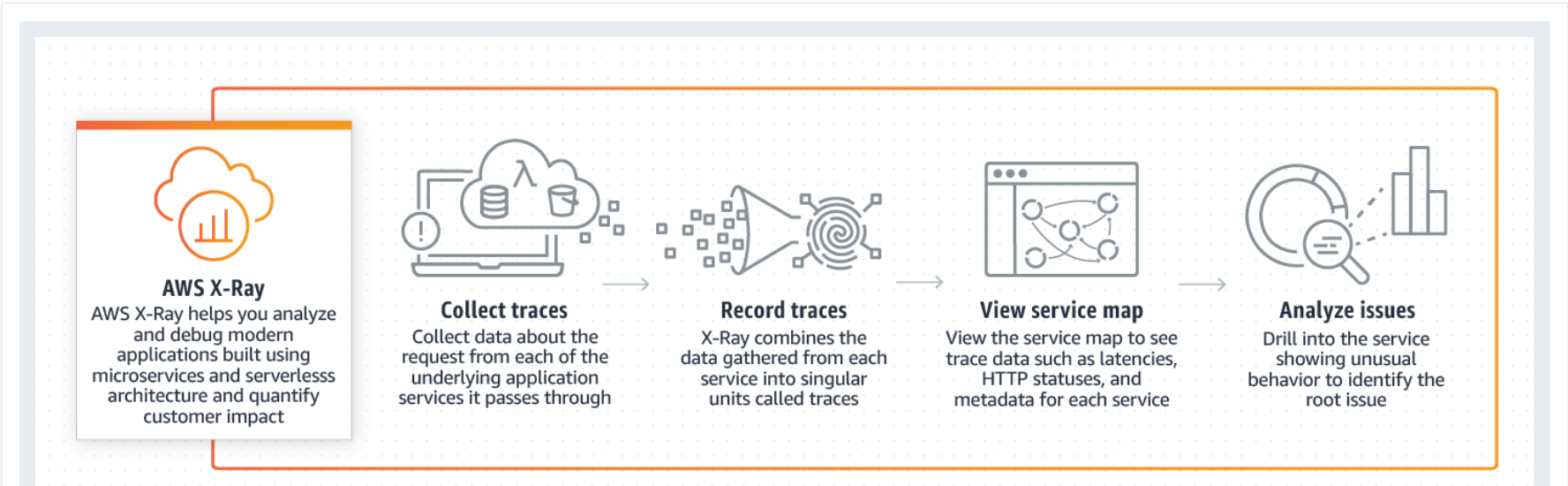


You can now click on Virtual nodes and explore the 3 virtual nodes. If you click on frontend-beta-lb virtual node, you would see other 2 virtual services crystal.protonworkshop.hosted.local and nodejs.protonworkshop.hosted.local are listed as its backend.



## Explore X-Ray

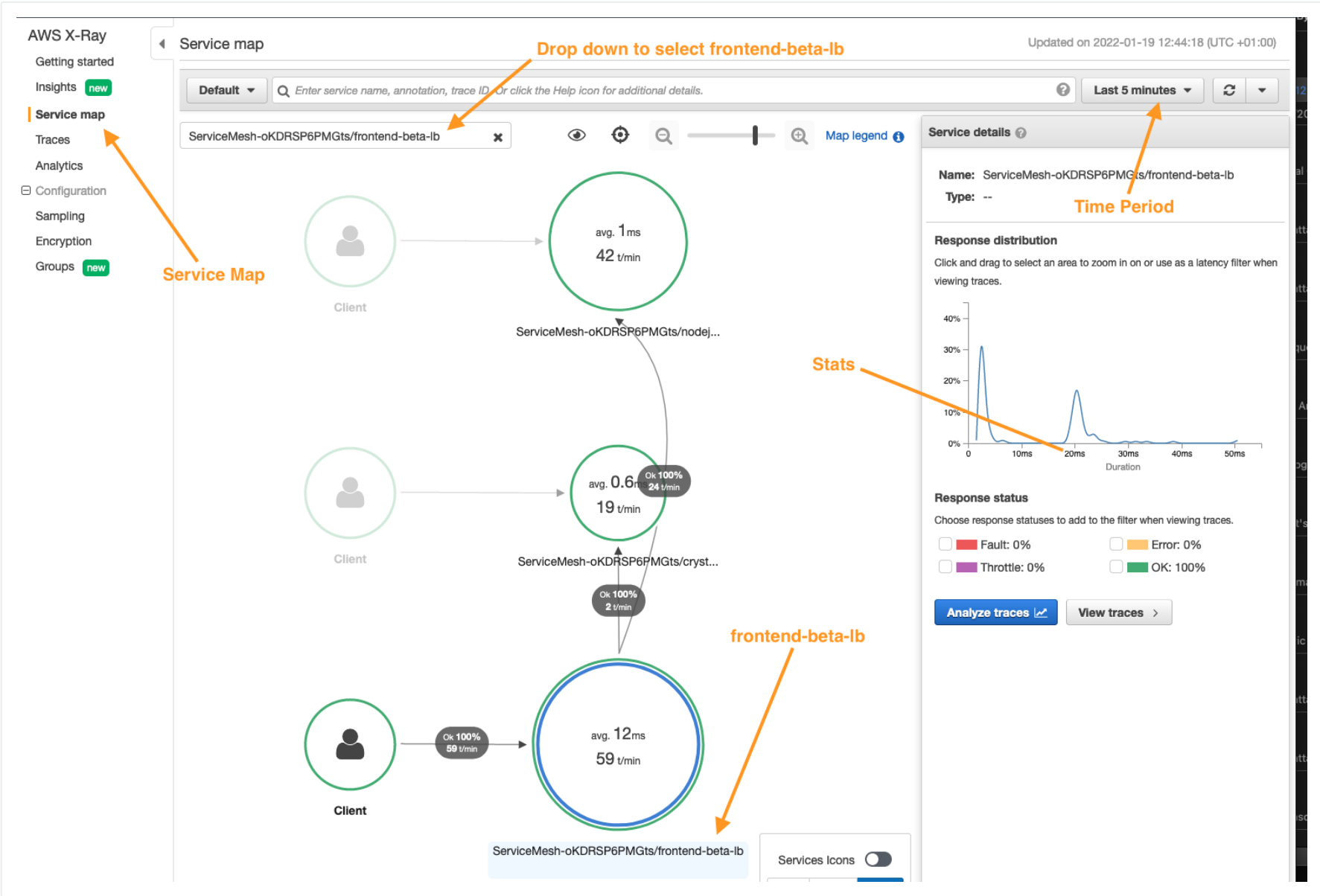
### How it works



AWS X-Ray helps developers analyze and debug production, distributed applications, such as those built using a microservices architecture. With X-Ray, you can understand how your application and its underlying services are performing to identify and troubleshoot the root cause of performance issues and errors. X-Ray provides an end-to-end view of requests as they travel through your application, and shows a map of your application’s underlying components.

You can now navigate to [X-Ray UI](#) and click on Service Map

It can take 1-2 minutes to compute a map for first time.



You can also navigate to Traces to see the sample traces for your application.

The screenshot shows the AWS X-Ray Traces interface. The left sidebar is the same as the Service Map view. The main area is titled 'Traces' and includes a search bar. Below the search bar, the 'Trace overview' section shows a table with columns: URL, AVG RESPONSE TIME, % OF TRACES, and RESPONSE. The table lists several URLs and their corresponding response times and percentages. An arrow points to the 'Group by: URL' dropdown. Below the overview table, the 'Trace list' section shows a detailed table with columns: ID, AGE, METHOD, RESPONSE, RESPONSE TIME, URL, CLIENT IP, and ANNOTATIONS. An arrow points to the 'Trace list' section header.

URL	AVG RESPONSE TIME	% OF TRACES	RESPONSE
http://awspr-loadb-upomra3emkxy-351430083.us-east-1.elb.a...	21.5 ms	36.36%	44 OK, 0 Throttled, 0 Errors, 0 Faults
http://nodejs.protonworkshop.hosted.https://awspr-loadb-upomra3emkxy-351430083.us-east-1.elb.amazonaws.com/		34.71%	42 OK, 0 Throttled, 0 Errors, 0 Faults
http://10.0.2.136:3000/health	1.0 ms	9.92%	12 OK, 0 Throttled, 0 Errors, 0 Faults
http://10.0.1.136:3000/health	1.0 ms	8.26%	10 OK, 0 Throttled, 0 Errors, 0 Faults
http://nodejs.protonworkshop.hosted.local:3000/health	1.0 ms	4.96%	6 OK, 0 Throttled, 0 Errors, 0 Faults

ID	AGE	METHOD	RESPONSE	RESPONSE TIME	URL	CLIENT IP	ANNOTATIONS
...5895e8c46cf948d	36.8 sec	GET	200	1.0 ms	http://nodejs.protonwork...	10.0.1.42	0
...5034f93ad2303a0	8.8 sec	GET	200	3.0 ms	http://nodejs.protonwork...	10.0.2.98	0
...0da4f0187ecd16a	48.8 sec	GET	200	3.0 ms	http://nodejs.protonwork...	10.0.2.98	0
...301543f0ac3f391a	9.8 sec	GET	200	1.0 ms	http://10.0.2.136:3000/h...	10.0.2.122	0
...84c2c417960b5fc	6.8 sec	GET	200	1.0 ms	http://nodejs.protonwork...	10.0.1.42	0
...4d344d39c491fb0	49.8 sec	GET	200	1.0 ms	http://10.0.2.136:3000/h...	10.0.2.122	0
...dc4d73bbc0a03	13.8 sec	GET	200	3.0 ms	http://nodejs.protonwork...	10.0.2.98	0
...5f2448b8329b719	32.8 sec	GET	200	1.0 ms	http://10.0.2.136:3000/h...	10.0.1.42	0
...84243fc80f0ddd6	34.8 sec	GET	200	4.0 ms	http://nodejs.protonwork...	10.0.2.98	0

Individual trace details

