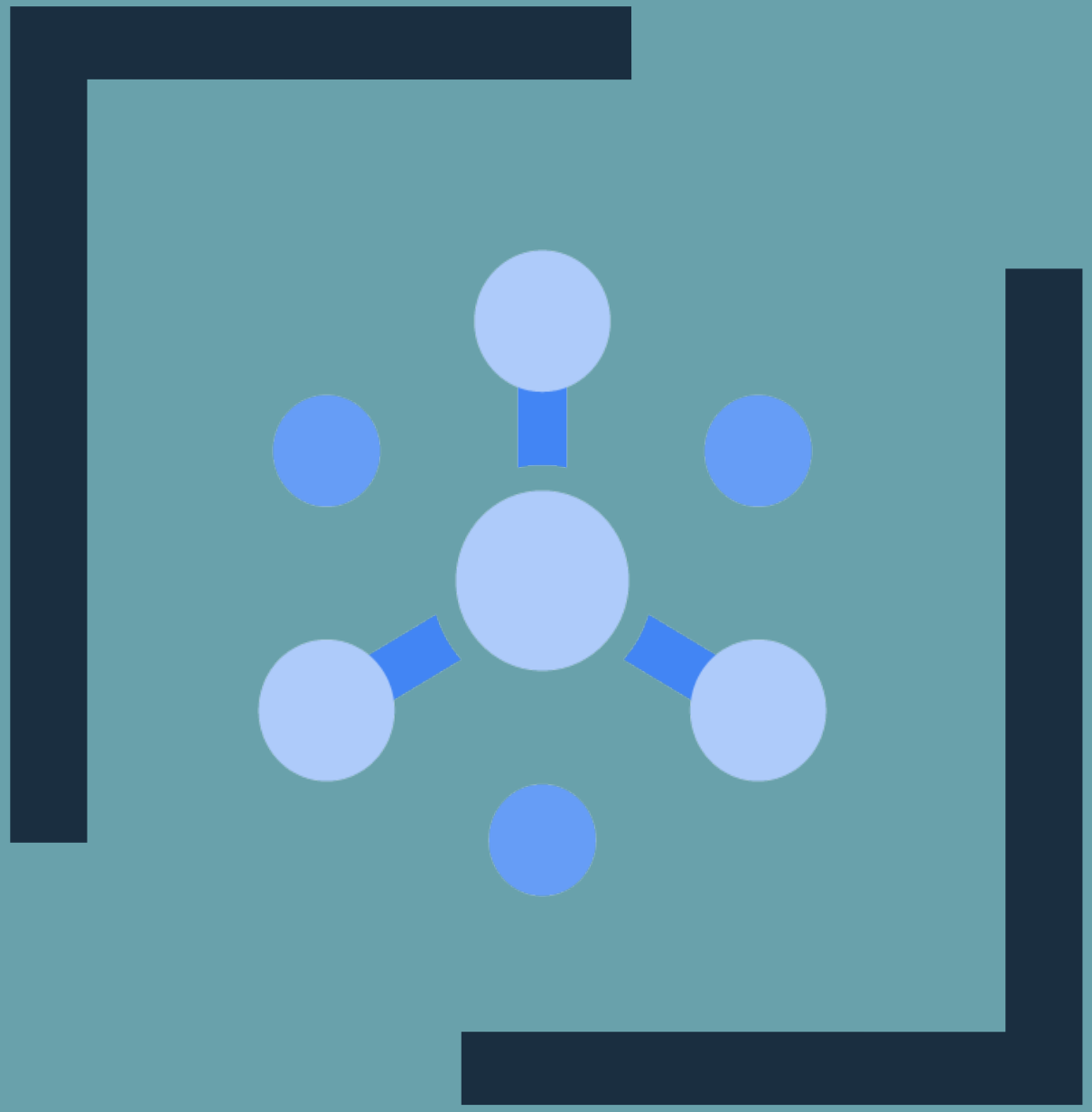

# CLOUD PUB/SUB ON GCP: THE WHAT, WHY AND HOW

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Connect Forward

December 2020

# Let’s talk Pub/Sub

## What is Pub/Sub Messaging

*Definitions*
*Use Cases*

## Cloud Pub/Sub on GCP

*Benefits*
*Publishers*
*Subscribers*
*What happens when things go wrong*

## Next Steps

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# Pub/Sub Messaging

- Asynchronous messaging pattern that decouples applications to increase reliability, performance, and scalability
- Any message sent by a publisher is immediately received on any subscriptions to the topic.
- Used for Event driven microservice or serverless architectures

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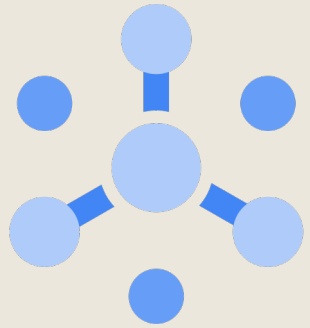
# Pub/Sub Terms



**MESSAGE**

THE UNIT OF DATA BEING SENT BY THE PUBLISHER

**TOPIC**

AN INTERMEDIARY CHANNEL THAT THE PUBLISHER POSTS TO. THE TOPIC HAS A LIST OF SUBSCRIPTIONS THAT IT PUBLISHES MESSAGES TO.

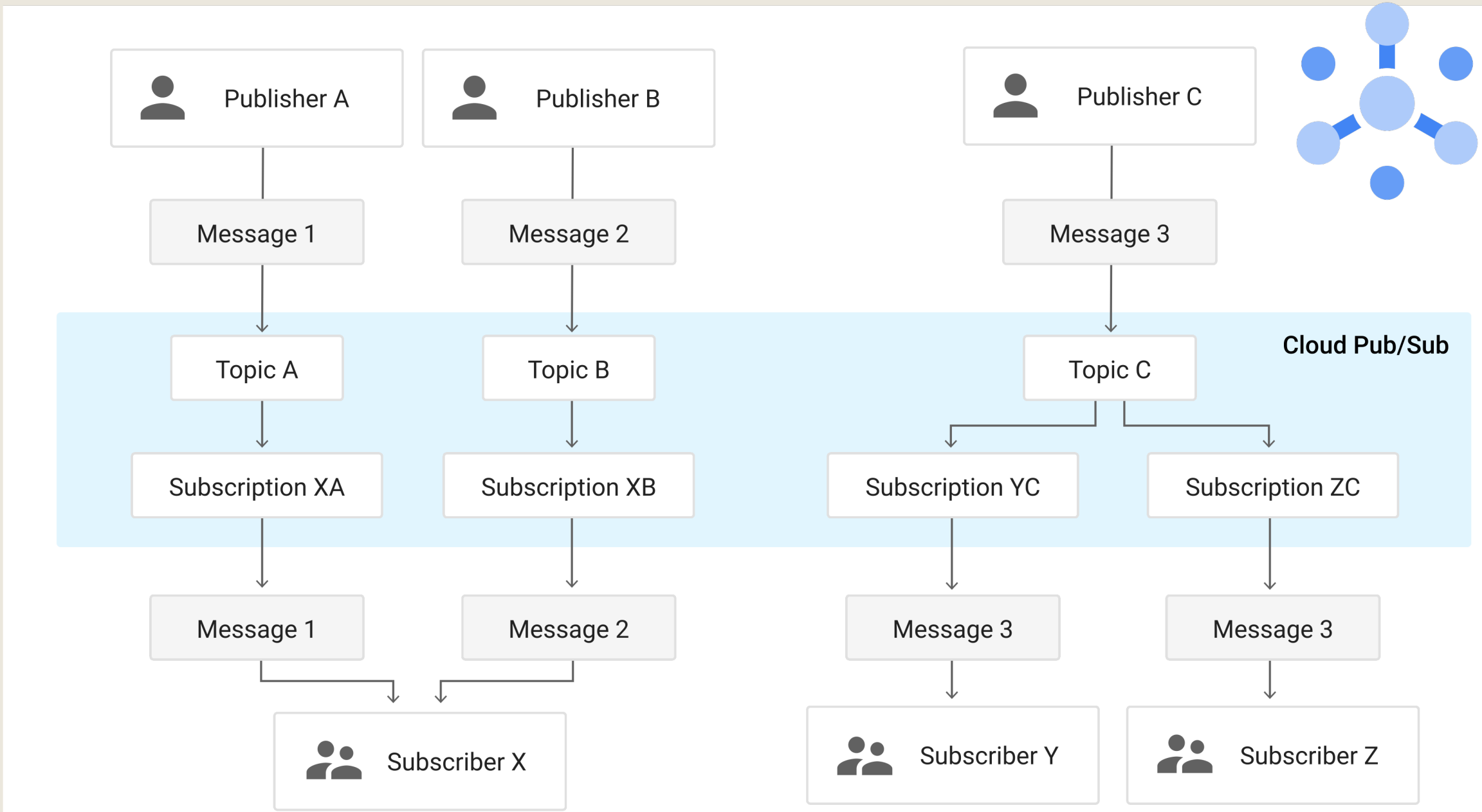
**PUBLISHER**

AN APPLICATION THAT SENDS MESSAGES TO TOPIC

**SUBSCRIPTION**

A QUEUE FROM A TOPIC. A TOPIC MAY HAVE MULTIPLE SUBSCRIPTIONS AND EVERY MESSAGE WILL BE SENT SIMULTANEOUSLY TO ALL SUBSCRIPTIONS.

**SUBSCRIBER** - AN APPLICATION THAT SUBSCRIBES TO A TOPIC VIA A SUBSCRIPTION TO RECEIVE MESSAGES PUBLISHED BY ANOTHER APPLICATION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Publisher B
Publisher C
Message 1
Message 2
Message 3
Cloud Pub/Sub
Topic A
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Message 1
Message 2
Message 3
Message 3
Subscriber X
Subscriber Y
Subscriber Z