



# How to make Postgres “Scale to Zero”

Gülçin Yıldırım Jelínek

PGDay Napoli, 25 Sep 2025



# Postgres at scale

[xata.io](https://xata.io)



**Why would I  
want to scale  
my database to  
zero?**

\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

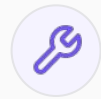
# How does it work?



Separate storage & compute layers



CNPG as our compute layer in Kubernetes

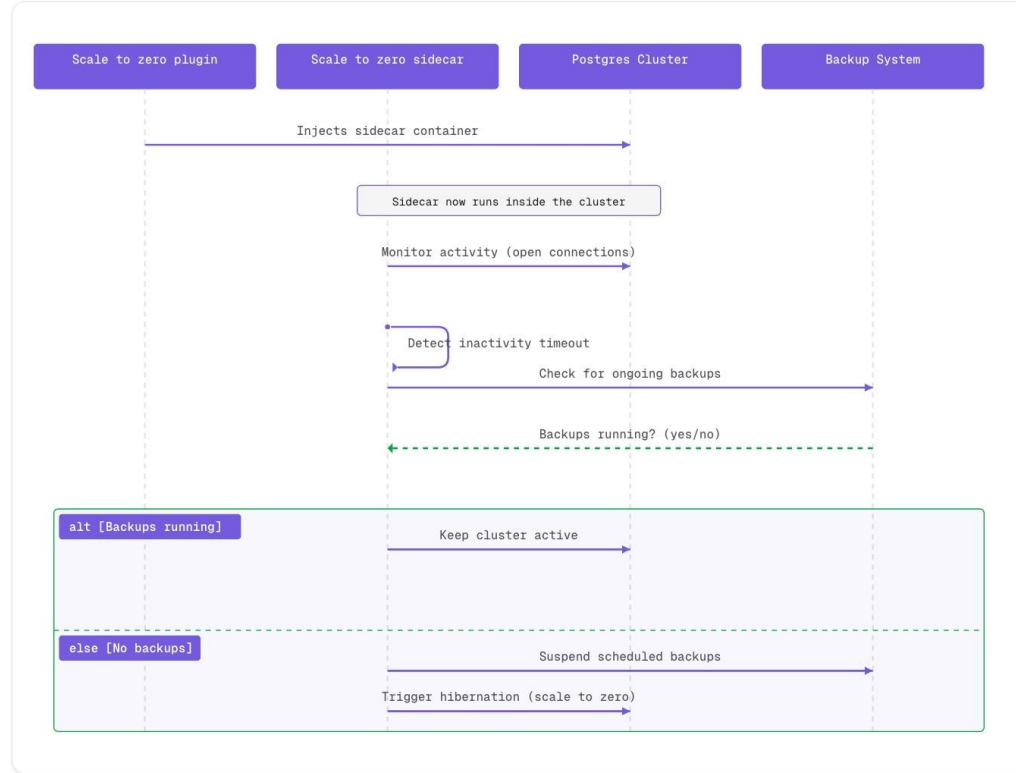


Open-source CNPG-I Scale-to-Zero plugin



Plugin injects a sidecar when a cluster is created

## Scale-to-Zero Plugin Sequence Diagram



# When to use scale to zero



Ephemeral branches



Staging environments



Testing environments



Postgres at scale

# Thank you!

 [gulcin@xata.io](mailto:gulcin@xata.io)

 [xata.io](https://xata.io)

