

### Progressive delivery when lives are on the line

Lessons learned and advanced techniques by deploying containerized network functions for 5G telco operators

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### This pod can absolutely not be killed, until this call is over



Kubernetes defaults are aggressive for our use case

A phone call is as stateful as you can get

K8s has no idea about what your application is doing

Progressive delivery algorithms are not selective in pod deletion on successful deployment of a new version

# What we learned from the experience

#### **Explicitly trap SIGnals**

Have your application manage the labels of its pod, use labels as flags to keep pods safe

Be strategic in setting limits and requests, and use them for Guaranteed QoS



Leverage labels to handle targeted delivery

Extend the orchestration of your progressive delivery with workflows and events.

Define grace periods and use preStop to guarantee pod lifetime and kill readiness



Use node affinity for your most critical workloads and setup nodes equipped for high availability

Be specific with your pod eviction thresholds Dload Upload To 0 4682k 0 0:00



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## Thank you!





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