



# kubernetes

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*Kubernetes: Retry in Istio*

## *KUBERNETES : MicroServices*

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- In a **dynamic cloud** environment, there can be scenarios when there are **intermittent network connectivity** errors causing your service to be unavailable.
- You need to design your **microservice architecture** to handle such transient errors gracefully.
- This can be managed by **retry mechanism** after small delay in request call.
- Istio Provides the In-build retry mechanism for the request calls.

## *KUBERNETES : MicroServices*

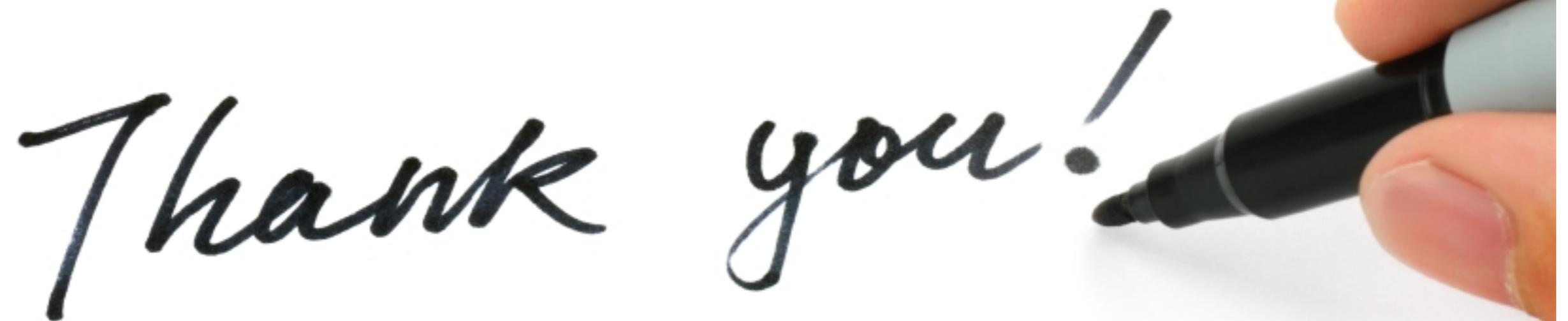
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- **Retry Design Pattern** states that you can retry a connection automatically which has failed earlier due to an exception.
- **Load balancer** might point you to a different healthy server on the retry, and your call might be **successful**.
- Retry Pattern can stabilize your applications from intermittent network issues.
- This also reduces the burden on the application for handling failures in case of such transient errors.
- User can specify the **number of retry attempts** in a virtual service. You can mention the **interval between retries**.
- If the request is **unsuccessful** after the retry attempts, the service should treat it as an error and handle it accordingly.

*Will see you in Next Lecture...*

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*Thank you!*

A close-up photograph of a hand holding a black marker, writing the words 'Thank you!' in a cursive script on a white surface. The hand is positioned on the right side of the frame, with the fingers gripping the marker. The text is written in a fluid, handwritten style.

*See you in next lecture ...*