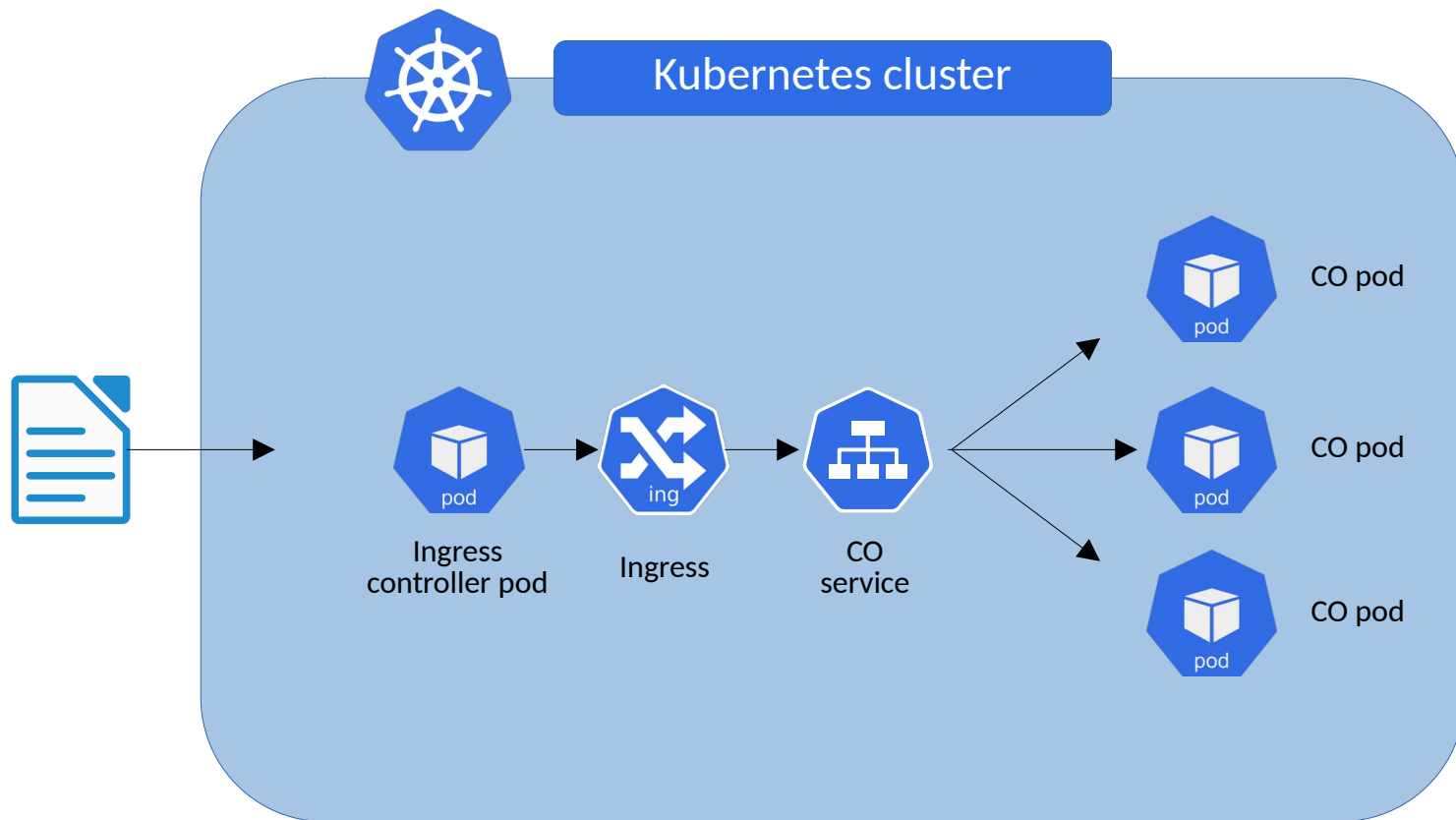# How it works!?

Standard case
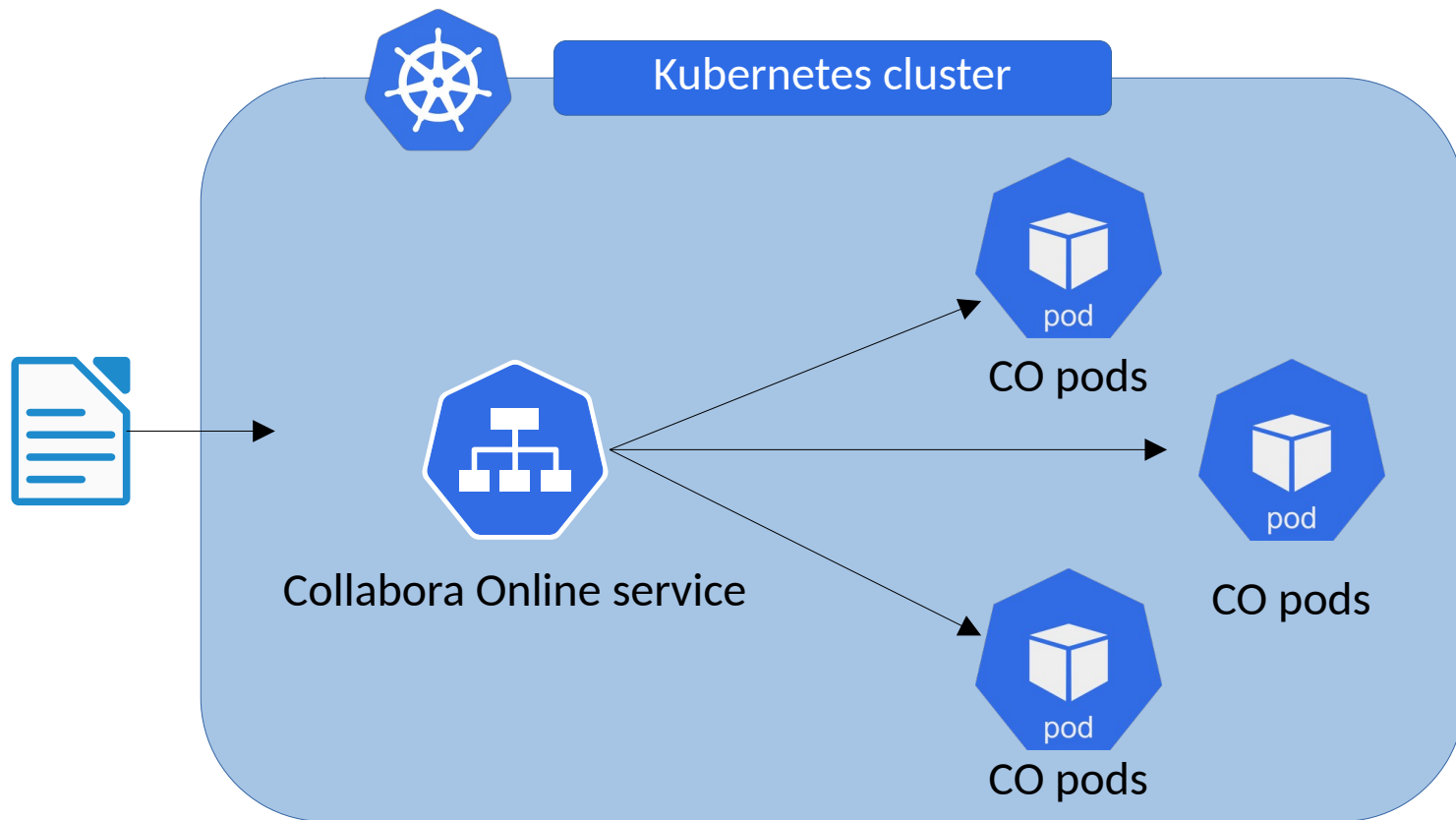
BUT...

It won't work...

Introduce ingress for load balancing

- Balance based on URL parameter **WOPISrc**
  - ➜ If same WOPIsrc then request goes to the same pod

- You can use any ingress controller of your choice, Collabora provides configuration for Haproxy and Nginx

Let's get hands dirty...

```yaml
kubernetes > helm > collabora-online > templates > ! ingress.yaml
You, 18 hours ago | 2 authors (You and others)
 1  apiVersion: networking.k8s.io/v1
 2  kind: Ingress
 3  metadata:
 4    name: {{ .Values.global.ingress.name }}
 5    namespace: {{ .Values.namespace.collabora }}
 6    annotations:
 7      nginx.ingress.kubernetes.io/upstream-hash-by: "$arg_WOPISrc"
 8  spec:
 9    rules:
10    - host: {{ .Values.hosts.host }}
11      http:
12        paths:
13        - path: "/"
14          pathType: Prefix
15          backend:
16            service:
17              name: {{ .Values.global.app.service.name }}
18              port:
19                number: 9980
20  
```

```yaml
kubernetes > helm > collabora-online > templates > ! service.yaml
You, 4 months ago | 2 authors (Gabriel Masei and others)
 1  apiVersion: v1
 2  kind: Service
 3  metadata:
 4    name: {{ .Values.global.app.service.name }}
 5    namespace: {{ .Values.namespace.collabora }}
 6    labels:
 7      app: {{ template "name" . }}
 8      chart: {{ template "chartname" . }}
 9      release: {{ .Release.Name }}
10    annotations:
11      haproxy.org/timeout-tunnel: "3600s"
12      haproxy.org/backend-config-snippet: |
13        balance url_param WOPISrc check_post
14        hash-type consistent
15  spec:
16    type: {{ .Values.global.app.service.type }}
17    ports:
18    - port: {{ .Values.global.app.service.externalPort }}
19      targetPort: {{ .Values.global.app.service.internalPort }}
20      protocol: TCP
21      name: {{ .Values.global.app.service.name }}
22    selector:
23      app: {{ template "name" . }}
24      release: {{ .Release.Name }}
25  
```

Documentation can be found at...

https://sdk.collaboraonline.com/docs/installation/Kubernetes.html

Thank you...

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By Pranam Lashkari