

# Kubernetes & KAS versioning

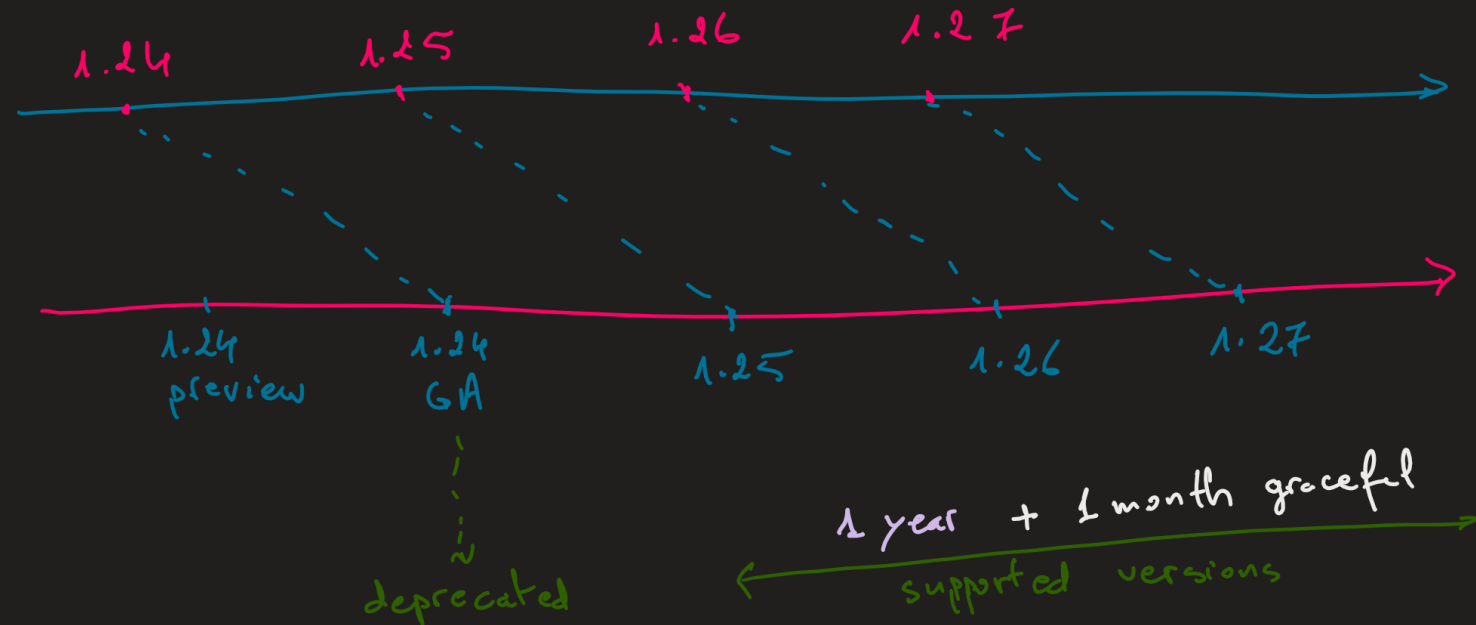
Kubernetes

AKS

Support:  $n-2$

LTS version: 1.27, 2 years support (paid)

Upgrade cluster: 1.20  $\xrightarrow[\text{versions}]{\text{skip}}$  1.25  $\longrightarrow$  1.26  $\longrightarrow$  1.27  
 $\hookrightarrow$  No downgrade



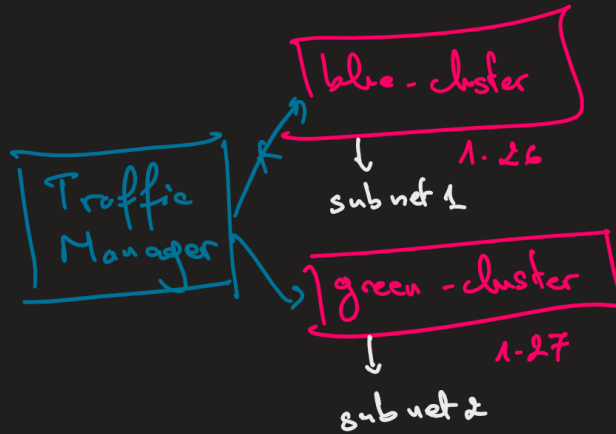
# AKS release calendar

<b>K8s version</b>	<b>Upstream release</b>	<b>AKS preview</b>	<b>AKS GA</b>	<b>End of life</b>
1.24	Apr-22-22	May 2022	Jul 2022	Jul 2023
1.25	Aug 2022	Oct 2022	Dec 2022	Dec 2023
1.26	Dec 2022	Feb 2023	Apr 2023	Mar 2024
1.27	Apr 2023	Jun 2023	Jul 2023	Jul 2024

[learn.microsoft.com/en-us/azure/aks/supported-kubernetes-versions?tabs=azure-cli#aks-kubernetes-release-calendar](https://learn.microsoft.com/en-us/azure/aks/supported-kubernetes-versions?tabs=azure-cli#aks-kubernetes-release-calendar)

# AKS upgrade options

cluster blue/green



(+) easy rollback

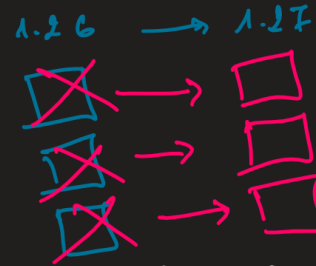
(+) change config

↳ CNI overlay, VNET-integ  
subnet, etc...

(-) changes CD pipelines

(-) restore persistent volumes

in-place upgrade



1. upgrade ctrl plane

2. upgrade node pools

↳ system node pool

↳ users node pool

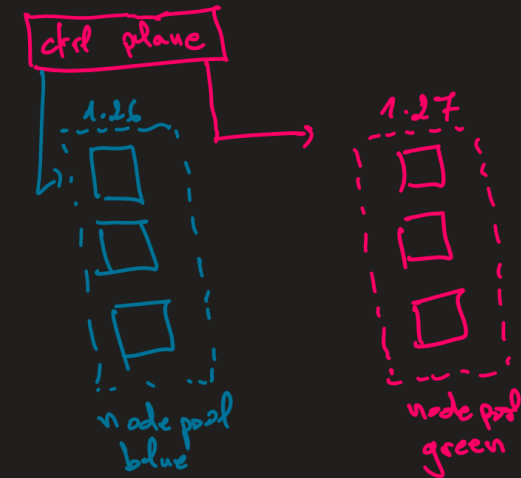
↳ one by one

(+) easy & fast

(-) difficult rollback

(-) no testing

nodepool blue/green



1. upgrade ctrl plane

2. create new green node pool

3. redeploy or migrate apps

4. test apps

5. delete old blue nodepool

(+) easy

(+) rollback

(+) testing