

Brainstorm Pros/Cons of a single Namespace

Lets brainstorm the pros and cons of having a single namespace in Kubernetes for production. The alternative is a much more silo'd approach to namespacing

Pros	Votes
Easy way to identify an environment in entirety in preproduction and stagingts	9
Simplifies the process of destroying an environment by being able to tag a single namespace	6
Less complexity in environment creation and deployment	5
No need for naming conventions (and enforcement of a naming convention)	3
Simplicity. Specially if prototyping or in MPV stage.	3
Avoids using FQDN of resources. Changes in namespaces have ripple effects to dependent services	3
No need to determine namespace membership of components or namespace names	1
Easier to transition to multiple namespaces than consolidating namespaces	1
Makes permissons in pre-production easier by granting access at a namespace level	0

Cons	Votes
testes	12
thgrtherth	8
Increases the blast radius for mistakes in environments, specifically production	6
Resources defined by one application may inadvertently impact another.	6
Makes RBAC management more difficult, since we'll need to enforce more strict selectors on "Role" objects.	3
We must prevent multiple NetworkPolicy objects from colliding with one another, or somehow generate a single NetworkPolicy.	3
Can't easily monitor which apps/services are consuming the most resources as we can't filter metrics/dashboard per namespace	3
Limits our ability to provide Kubectl access to developers in the future, since everything will exist in the namespace	2

Goes against the K8s best practice of creating application silos	2
Greater potential for resource name collisions.	1
Allows "us" to define what is considered the scope of an integration "environment", as opposed to enforcing the idea that it's everything ...	0
Will need to clearly define what the boundaries of namespaces are. e.g. does analytics-service exist in its own namespace? AuthDB?	0
Cannot define resource quotas	0
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