

Kubernetes: nginx ingress controller - failed calling webhook

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On a **kubernetes cluster** you might find the following error:

```
$ kubectl apply -f ingress.yaml
Error from server (InternalError): error when creating "ingress": Internal error occurred: failed calling webhook
"validate.nginx.ingress.kubernetes.io":

Post https://ingress-nginx-controller-admission.ingress-nginx.svc:443/networking/v1beta1/ingresses?timeout=10s: service "ingress-
nginx-controller-admission" not found
```

This message is telling you that the **nginx ingress controller** is not responding: This can be due to the fact that it might have partially uninstalled it (for example, by removing the namespace) but some of the global objects still present (for example the **ValidatingWebhookConfiguration** object).

To remove the **ValidatingWebhookConfiguration** object for the **nginx ingress controller** is named **ingress-nginx-admission**, we can remove it with **kubectl delete** like this:

```
$ kubectl delete -A ValidatingWebhookConfiguration ingress-nginx-admission
validatingwebhookconfiguration.admissionregistration.k8s.io "ingress-nginx-admission" deleted
```

Once you have it removed, you will be able to create ingress objects as usual:

```
$ kubectl apply -f ingress.yaml
ingress.extensions/testingress created
```

We should be considering this a **workaround**, we need to keep in mind that removing a namespace is not equivalent of uninstalling an application: Some applications might have created objects that are not namespaced:

```
$ kubectl api-resources --namespaced=false
```

NAME	SHORTNAMES	APIVERSION	NAMESPACED	KIND
componentstatuses	cs	v1	false	ComponentStatus
namespaces	ns	v1	false	Namespace
nodes	no	v1	false	Node
persistentvolumes	pv	v1	false	PersistentVolume
mutatingwebhookconfigurations		admissionregistration.k8s.io/v1	false	MutatingWebhookConfiguration
validatingwebhookconfigurations		admissionregistration.k8s.io/v1	false	ValidatingWebhookConfiguration
customresourcedefinitions	crd,crds	apiextensions.k8s.io/v1	false	CustomResourceDefinition
apiservices		apiregistration.k8s.io/v1	false	APIService
tokenreviews		authentication.k8s.io/v1	false	TokenReview
selfsubjectaccessreviews		authorization.k8s.io/v1	false	SelfSubjectAccessReview
selfsubjectrulesreviews		authorization.k8s.io/v1	false	SelfSubjectRulesReview
subjectaccessreviews		authorization.k8s.io/v1	false	SubjectAccessReview
certificatesigningrequests	csr	certificates.k8s.io/v1	false	CertificateSigningRequest
eniconfigs		crd.k8s.amazonaws.com/v1alpha1	false	ENIConfig
ingressclassparams		elbv2.k8s.aws/v1beta1	false	IngressClassParams
flowschemas		flowcontrol.apiserver.k8s.io/v1beta1	false	FlowSchema
prioritylevelconfigurations		flowcontrol.apiserver.k8s.io/v1beta1	false	PriorityLevelConfiguration
nodes		metrics.k8s.io/v1beta1	false	NodeMetrics
ingressclasses		networking.k8s.io/v1	false	IngressClass
runtimeclasses		node.k8s.io/v1	false	RuntimeClass
podsecuritypolicies	psp	policy/v1beta1	false	PodSecurityPolicy
clusterrolebindings		rbac.authorization.k8s.io/v1	false	ClusterRoleBinding
clusterroles		rbac.authorization.k8s.io/v1	false	ClusterRole
priorityclasses	pc	scheduling.k8s.io/v1	false	PriorityClass
csidrivers		storage.k8s.io/v1	false	CSIDriver
csinodes		storage.k8s.io/v1	false	CSINode
storageclasses	sc	storage.k8s.io/v1	false	StorageClass
volumeattachments		storage.k8s.io/v1	false	VolumeAttachment

Thus, be aware that by removing the **nginx ingress controller namespace** and the **ingress-nginx-admission webhook** you are not completely removed all the objects that were installed with the **nginx ingress controller**: You also want to check for the presence of some **clusterroles** and **clusterrolebindings** to also get rid of them:

```
$ kubectl get clusterrole | grep nginx
ingress-nginx                               2021-01-26T19:23:38Z
ingress-nginx-admission                     2021-01-26T19:23:47Z
$ kubectl get clusterrolebinding | grep nginx
ingress-nginx                               ClusterRole/ingress-nginx           7d20h
ingress-nginx-admission                     ClusterRole/ingress-nginx-admission 7d20h
```