

Nirmata Kyverno (N4K) and Operator Installation Guide

Version Details:

- Kyverno (N4K) Version: v1.13.4-n4k.nirmata.2
 - N4K Chart Version: v3.3.9
 - Kyverno Operator Version: v0.5.8
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1. Overview

This document outlines the installation procedure for Enterprise Kyverno (N4K) and the Kyverno Operator using Helm. It also includes the list of container images that must be pushed to a private registry if your organization intends to use a private image repository.

2. N4K Installation

Install Command:

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```
helm install kyverno nirmata/kyverno -n kyverno --create-namespace \  
  --set features.policyExceptions.namespace="kyverno" \  
  --set features.policyExceptions.enabled=true \  
  --set admissionController.replicas=3 \  
  --version 3.3.9
```

3. Kyverno Operator Installation

Install Command:

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```
helm install kyverno-operator nirmata/nirmata-kyverno-operator -n nirmata-system  
--create-namespace --devel \  
--set enablePolicyset=true \  
--version v0.5.8 \  
--set "policies.policySets=[]"
```

4. Cleanup Instructions

If you need to remove the N4K and Operator components from your cluster, use the following commands:

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```
helm uninstall kyverno -n kyverno  
helm uninstall kyverno-operator -n nirmata-system  
kubectl delete ns kyverno  
kubectl delete ns nirmata-system
```

Make sure to remove any persistent CRDs or leftover resources related to Kyverno if necessary.

5. Complete Image List (For Private Registry Usage)

N4K Images:

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```
reg.nirmata.io/nirmata/kyverno:v1.13.4-n4k.nirmata.2  
reg.nirmata.io/nirmata/kyverno-pre:v1.13.4-n4k.nirmata.2  
reg.nirmata.io/nirmata/background-controller:v1.13.4-n4k.nirmata.2  
reg.nirmata.io/nirmata/cleanup-controller:v1.13.4-n4k.nirmata.2  
reg.nirmata.io/nirmata/reports-controller:v1.13.4-n4k.nirmata.2  
ghcr.io/nirmata/nirmata-kyverno-operator:v0.4.5  
ghcr.io/nirmata/nirmata-kube-controller:v3.10.5  
ghcr.io/nirmata/opentelemetry-collector:0.92.0
```

Kyverno Operator Images:

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```
ghcr.io/nirmata/nirmata-kyverno-operator:v0.4.5
```

Nirmata Kube-controller Images:

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```
ghcr.io/nirmata/nirmata-kube-controller:v3.10.5  
ghcr.io/nirmata/opentelemetry-collector:0.92.0
```

Ensure all components are pushed to your private repository to prevent image pull errors in air-gapped or restricted environments.

For further assistance, please reach out to the Nirmata support team or refer to the official documentation.