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# MySQL NDB Operator 8.3 Release Notes

## Abstract

This document contains release notes for the changes in MySQL NDB Operator 8.3 for Kubernetes.

For additional NDB Operator documentation, see <https://dev.mysql.com/doc/ndb-operator/8.3/en/>.

Updates to these notes occur as new product features are added, so that everybody can follow the development process. If a recent version is listed here that you cannot find on the download page (<https://dev.mysql.com/downloads/>), the version has not yet been released.

The documentation included in source and binary distributions may not be fully up to date with respect to release note entries because integration of the documentation occurs at release build time. For the most up-to-date release notes, please refer to the online documentation instead.

For legal information, see the [Legal Notices](#).

For help with using MySQL, please visit the [MySQL Forums](#), where you can discuss your issues with other MySQL users.

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## Preface and Legal Notices

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## Changes in NDB Operator 8.3.0-1.3.0 (2024-01-16, Innovation Release)

This is MySQL NDB Operator 8.3.0-1.3.0, an Innovation release of NDB Operator, a Kubernetes Operator for MySQL NDB Cluster.

For additional downloads and the source of MySQL NDB Operator visit <https://dev.mysql.com/downloads/ndb-operator/> and <https://github.com/mysql/mysql-ndb-operator>.

For more information on MySQL NDB Operator see the online documentation at <https://dev.mysql.com/doc/ndb-operator/en/>.

For more information about MySQL NDB Cluster, see <https://dev.mysql.com/doc/refman/8.3/en/mysql-cluster.html>.

## Functionality Added or Changed

- With the following fixes made in this release, NDB Operator now supports OpenShift containers:
  - A permissions error in `mysqld` containers was due to the NDB Operator requiring elevated privileges (`chmod` and `chown`) for sensitive file operations. This was caused by OpenShift's default pod initialization with restricted privileges.

We fix this by updating NDB Operator so that it automatically creates and attaches to all pods a dedicated service account whose Security Context Constraints (SCC) can now be modified using the `oc adm policy` command, granting users the flexibility to adjust the privileges associated with the service account. This modification enables pods to start with elevated privileges, resolving permission errors encountered during file operations in `mysqld` containers.

- An ownership reference problem with PVC finalizers in OpenShift occurred when setting the operator's CRD as the owner for PVCs created by the `StatefulSet`.

This is addressed by refactoring the approach used by the NDB controller delete event so that it now manages the deletion of all PVCs created by NDB Operator, removing the ownership reference to the operator's CRD. This resolves the PVC finalizer issues observed in OpenShift environments.

- OpenShift triggered warnings due to unset resource fields in `init` containers.

This is resolved by including resource fields for `init` containers in the NDB Operator code, setting them with the same resource specifications as the main container. Since Kubernetes selects only the highest resource value among all `init` containers, this addition does not affect the node scheduling process.

(Bug #36033825)

